

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P821239

Luminaire Tested: **TT-D4-735-24VDC-MQ-HSS**

Issue Date: 12/2/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D4-735-24VDC-MQ-HSS  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

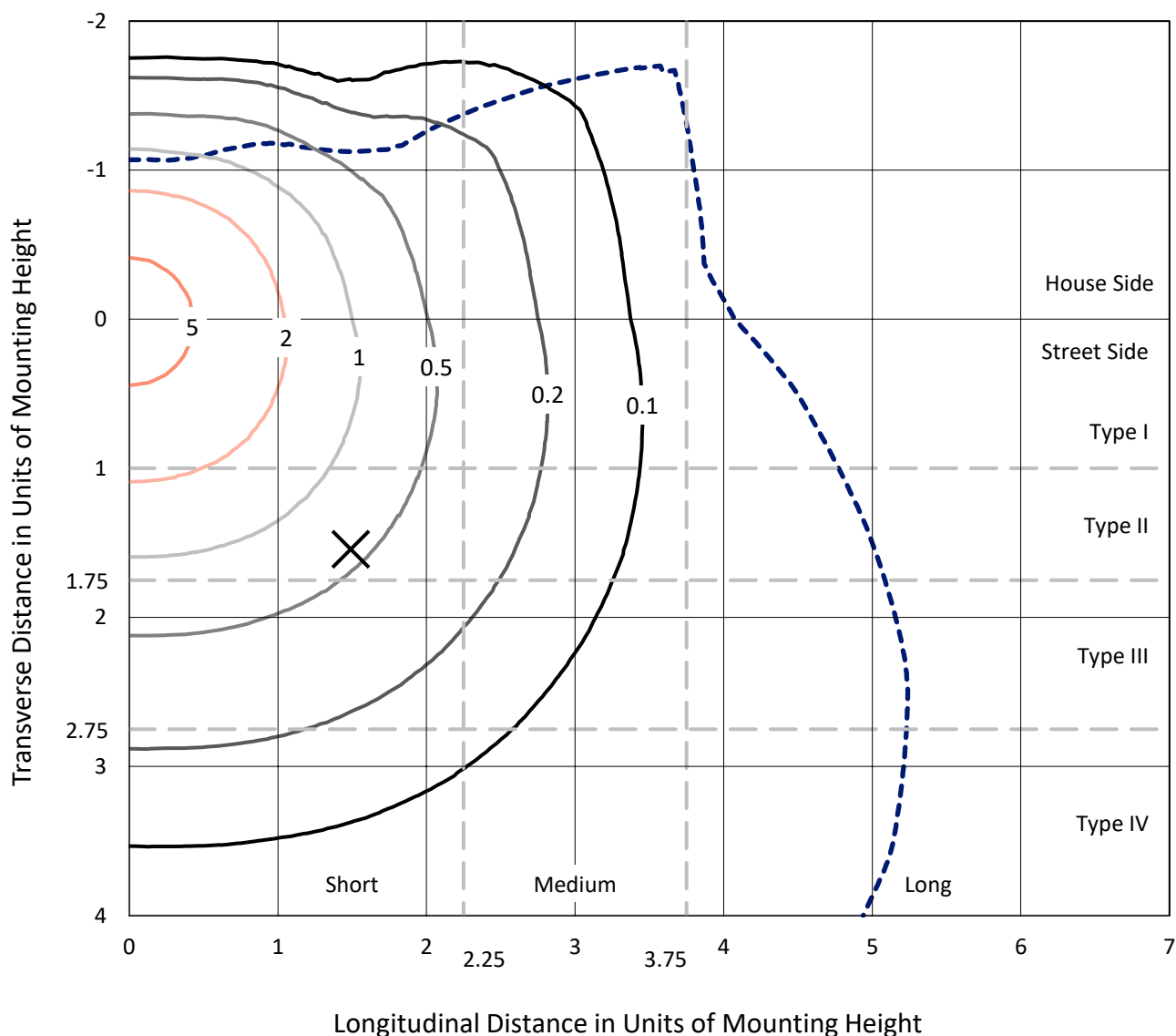
Lumens per Lamp: N/A  
Luminaire Lumens: 6366.9 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U2 - G2

Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

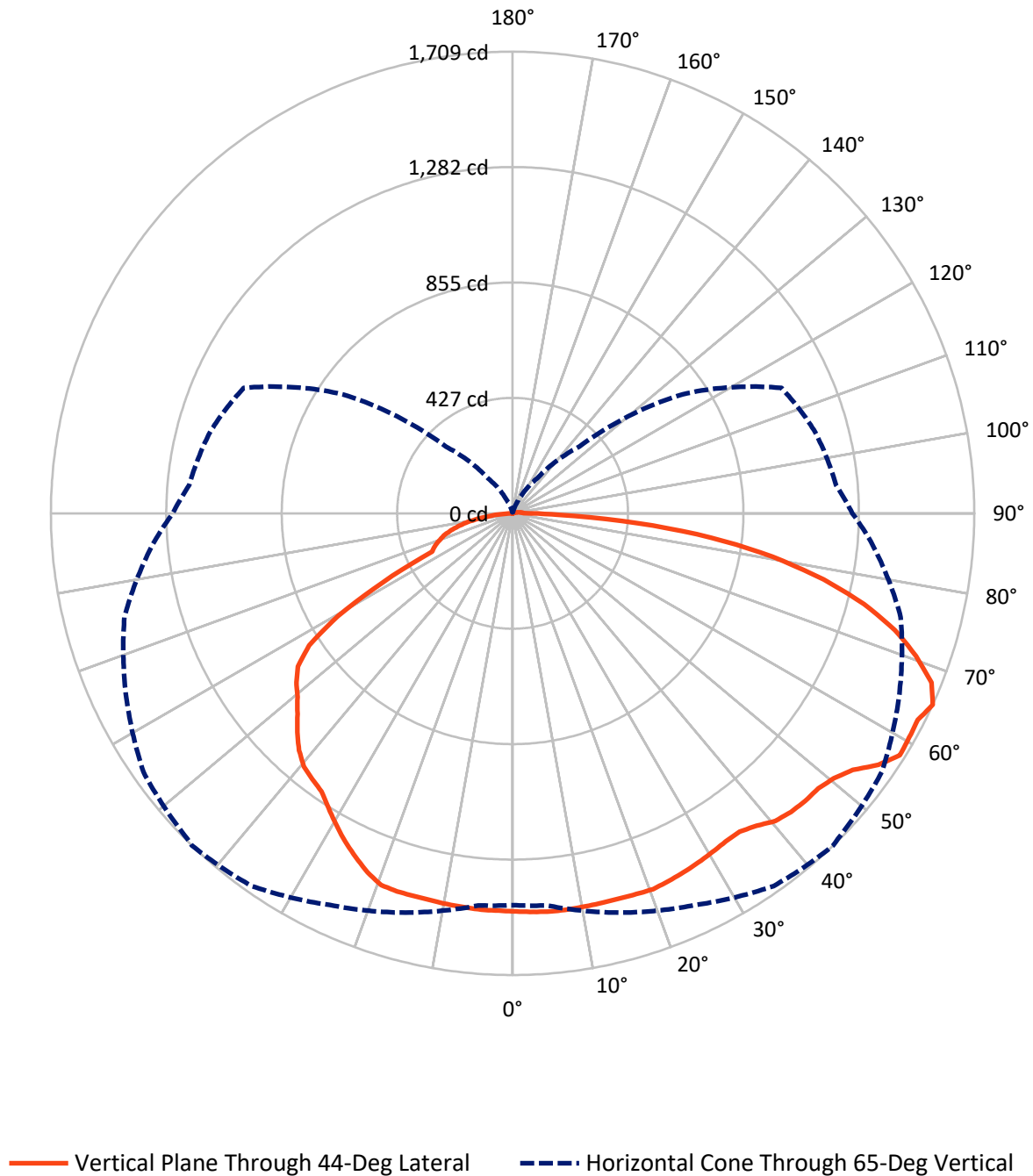
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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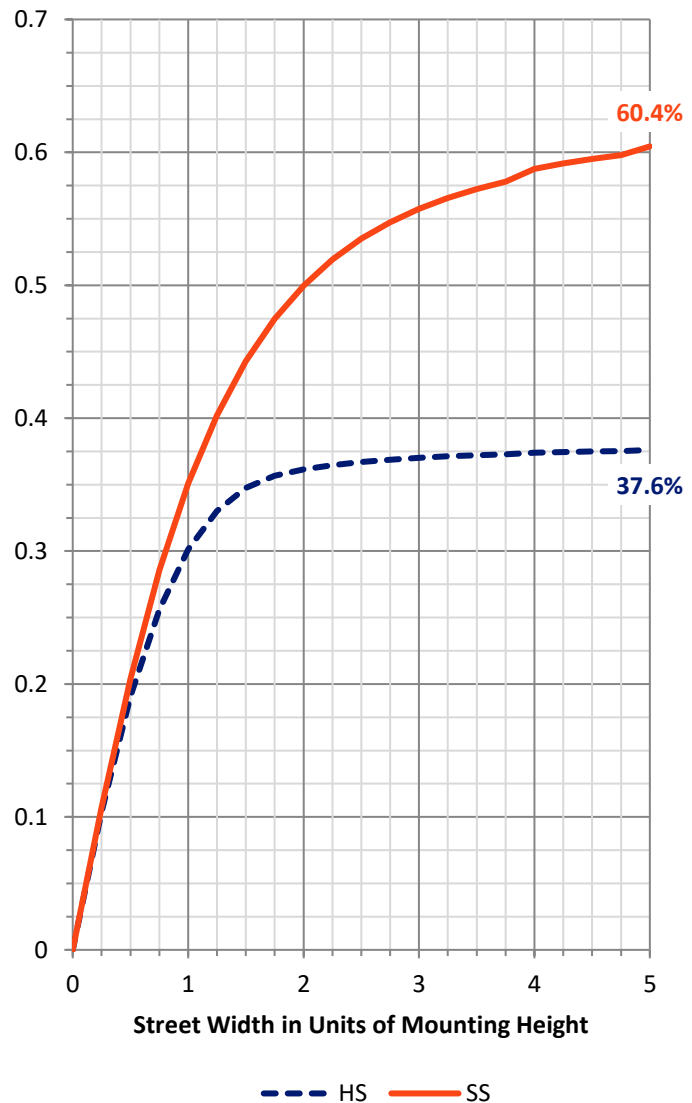
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2410.8   | 1.6    | 2412.5 |
|                    | % Fixture | 37.9     | 0.0    | 37.9   |
| <b>Street Side</b> | Lumens    | 3932.9   | 21.6   | 3954.5 |
|                    | % Fixture | 61.8     | 0.3    | 62.1   |
| <b>Total</b>       | Lumens    | 6343.7   | 23.2   | 6366.9 |
|                    | % Fixture | 99.6     | 0.4    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.7  | 2.2       |
| 10°-20°   | 416.7  | 6.5       |
| 20°-30°   | 663.0  | 10.4      |
| 30°-40°   | 849.5  | 13.3      |
| 40°-50°   | 1006.4 | 15.8      |
| 50°-60°   | 1102.2 | 17.3      |
| 60°-70°   | 1047.7 | 16.5      |
| 70°-80°   | 834.1  | 13.1      |
| 80°-90°   | 283.4  | 4.5       |
| 90°-100°  | 14.9   | 0.2       |
| 100°-110° | 4.9    | 0.1       |
| 110°-120° | 1.1    | 0.0       |
| 120°-130° | 0.7    | 0.0       |
| 130°-140° | 0.5    | 0.0       |
| 140°-150° | 0.5    | 0.0       |
| 150°-160° | 0.4    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-90°    | 6343.7 | 99.6      |
| 0°-180°   | 6366.9 | 100.0     |

**Coefficient of Utilization**



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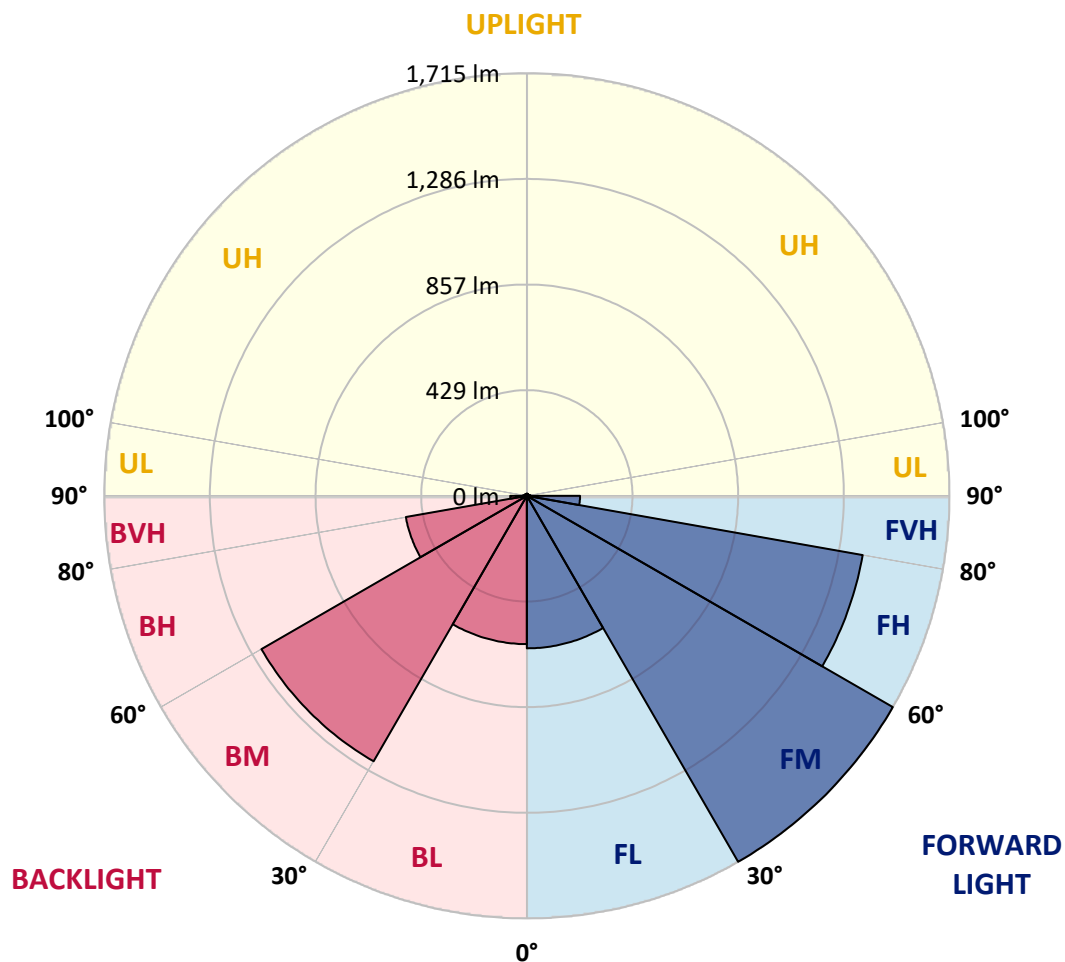
CATALOG NUMBER: TT-D4-735-24VDC-MQ-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 618.9  | 9.7       |                         |       |         |
| FM   | (30°-60°)   | 1714.6 | 26.9      |                         |       |         |
| FH   | (60°-80°)   | 1383.6 | 21.7      |                         |       | G1/1800 |
| FVH  | (80°-90°)   | 215.8  | 3.4       |                         |       | G2/225  |
| BL   | (0°-30°)    | 601.6  | 9.4       | B2/1000                 |       |         |
| BM   | (30°-60°)   | 1243.5 | 19.5      | B2/2500                 |       |         |
| BH   | (60°-80°)   | 498.2  | 7.8       | B1/500                  |       | G1/500  |
| BVH  | (80°-90°)   | 67.5   | 1.1       |                         |       | G1/100  |
| UL   | (90°-100°)  | 14.9   | 0.2       |                         | U2/50 |         |
| UH   | (100°-180°) | 8.3    | 0.1       |                         | U1/10 |         |

**BUG Rating: B2-U2-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 |
| 2.5°   | 1479.5 | 1478.4 | 1478.4 | 1478.4 | 1478.4 | 1477.3 | 1478.4 | 1476.2 | 1477.3 | 1473.9 | 1473.9 |
| 5°     | 1482.9 | 1480.7 | 1481.8 | 1481.8 | 1481.8 | 1480.7 | 1481.8 | 1478.4 | 1479.5 | 1475.0 | 1473.9 |
| 7.5°   | 1484.0 | 1482.9 | 1482.9 | 1482.9 | 1482.9 | 1480.7 | 1481.8 | 1479.5 | 1478.4 | 1475.0 | 1472.8 |
| 10°    | 1484.0 | 1482.9 | 1482.9 | 1482.9 | 1481.8 | 1479.5 | 1480.7 | 1477.3 | 1477.3 | 1472.8 | 1470.5 |
| 12.5°  | 1484.0 | 1482.9 | 1484.0 | 1481.8 | 1481.8 | 1479.5 | 1479.5 | 1476.2 | 1476.2 | 1470.5 | 1468.3 |
| 15°    | 1482.9 | 1481.8 | 1481.8 | 1482.9 | 1481.8 | 1479.5 | 1479.5 | 1476.2 | 1475.0 | 1468.3 | 1466.0 |
| 17.5°  | 1481.8 | 1480.7 | 1481.8 | 1482.9 | 1484.0 | 1481.8 | 1482.9 | 1477.3 | 1475.0 | 1468.3 | 1464.9 |
| 20°    | 1482.9 | 1481.8 | 1482.9 | 1485.2 | 1485.2 | 1485.2 | 1485.2 | 1479.5 | 1475.0 | 1468.3 | 1462.7 |
| 22.5°  | 1479.5 | 1479.5 | 1479.5 | 1479.5 | 1481.8 | 1478.4 | 1478.4 | 1475.0 | 1469.4 | 1463.8 | 1458.2 |
| 25°    | 1471.7 | 1471.7 | 1472.8 | 1473.9 | 1473.9 | 1471.7 | 1470.5 | 1467.2 | 1462.7 | 1455.9 | 1449.2 |
| 27.5°  | 1462.7 | 1462.7 | 1463.8 | 1463.8 | 1466.0 | 1463.8 | 1462.7 | 1458.2 | 1453.7 | 1445.8 | 1437.9 |
| 30°    | 1452.5 | 1452.5 | 1452.5 | 1454.8 | 1455.9 | 1455.9 | 1454.8 | 1449.2 | 1443.5 | 1434.5 | 1424.4 |
| 32.5°  | 1441.3 | 1441.3 | 1444.7 | 1446.9 | 1448.0 | 1448.0 | 1448.0 | 1441.3 | 1434.5 | 1423.3 | 1408.7 |
| 35°    | 1432.3 | 1432.3 | 1436.8 | 1444.7 | 1449.2 | 1446.9 | 1445.8 | 1441.3 | 1431.2 | 1418.8 | 1395.2 |
| 37.5°  | 1437.9 | 1437.9 | 1448.0 | 1459.3 | 1469.4 | 1467.2 | 1467.2 | 1459.3 | 1445.8 | 1425.5 | 1396.3 |
| 40°    | 1451.4 | 1452.5 | 1468.3 | 1482.9 | 1495.3 | 1497.5 | 1497.5 | 1488.5 | 1468.3 | 1442.4 | 1401.9 |
| 42.5°  | 1454.8 | 1457.0 | 1472.8 | 1494.2 | 1505.4 | 1511.0 | 1511.0 | 1498.7 | 1477.3 | 1446.9 | 1399.7 |
| 45°    | 1454.8 | 1455.9 | 1473.9 | 1496.4 | 1514.4 | 1518.9 | 1518.9 | 1505.4 | 1478.4 | 1449.2 | 1391.8 |
| 47.5°  | 1454.8 | 1453.7 | 1469.4 | 1500.9 | 1518.9 | 1522.3 | 1522.3 | 1507.7 | 1481.8 | 1444.7 | 1380.5 |
| 50°    | 1451.4 | 1457.0 | 1480.7 | 1505.4 | 1536.9 | 1541.4 | 1540.3 | 1524.5 | 1488.5 | 1450.3 | 1371.5 |
| 52.5°  | 1459.3 | 1458.2 | 1489.7 | 1539.2 | 1567.3 | 1577.4 | 1578.6 | 1558.3 | 1521.2 | 1466.0 | 1365.9 |
| 55°    | 1491.9 | 1493.0 | 1523.4 | 1580.8 | 1623.6 | 1642.7 | 1640.4 | 1614.6 | 1561.7 | 1497.5 | 1381.7 |
| 57.5°  | 1503.2 | 1514.4 | 1558.3 | 1607.8 | 1673.1 | 1689.9 | 1689.9 | 1658.4 | 1594.3 | 1522.3 | 1392.9 |
| 60°    | 1480.7 | 1485.2 | 1539.2 | 1623.6 | 1683.2 | 1686.6 | 1687.7 | 1665.2 | 1597.7 | 1508.8 | 1370.4 |
| 62.5°  | 1475.0 | 1484.0 | 1525.7 | 1620.2 | 1658.4 | 1683.2 | 1682.1 | 1651.7 | 1594.3 | 1498.7 | 1362.5 |
| 65°    | 1450.3 | 1457.0 | 1530.2 | 1599.9 | 1684.3 | 1709.1 | 1703.4 | 1668.6 | 1579.7 | 1487.4 | 1337.8 |
| 67.5°  | 1399.7 | 1406.4 | 1473.9 | 1571.8 | 1648.3 | 1671.9 | 1677.6 | 1637.1 | 1544.8 | 1434.5 | 1284.9 |
| 70°    | 1315.3 | 1325.4 | 1394.0 | 1489.7 | 1570.7 | 1584.2 | 1581.9 | 1557.2 | 1464.9 | 1346.8 | 1207.3 |
| 72.5°  | 1197.1 | 1212.9 | 1299.5 | 1390.7 | 1460.4 | 1480.7 | 1471.7 | 1443.5 | 1368.2 | 1241.0 | 1101.5 |
| 75°    | 1072.2 | 1086.9 | 1155.5 | 1257.9 | 1331.0 | 1344.5 | 1337.8 | 1304.0 | 1227.5 | 1102.6 | 976.6  |
| 77.5°  | 936.1  | 948.5  | 1007.0 | 1111.6 | 1165.6 | 1176.9 | 1180.3 | 1135.3 | 1063.2 | 950.7  | 838.2  |
| 80°    | 752.7  | 758.3  | 837.1  | 905.7  | 953.0  | 975.5  | 973.2  | 939.5  | 867.5  | 774.1  | 661.6  |
| 82.5°  | 555.8  | 560.3  | 621.1  | 679.6  | 722.3  | 742.6  | 731.3  | 697.6  | 640.2  | 560.3  | 474.8  |
| 85°    | 340.9  | 333.0  | 382.5  | 426.4  | 452.3  | 465.8  | 454.6  | 435.4  | 384.8  | 321.8  | 262.2  |
| 87.5°  | 122.6  | 115.9  | 138.4  | 145.1  | 174.4  | 169.9  | 180.0  | 145.1  | 117.0  | 83.3   | 58.5   |
| 90°    | 54.0   | 54.0   | 52.9   | 50.6   | 46.1   | 41.6   | 40.5   | 33.8   | 24.8   | 15.8   | 5.6    |
| 92.5°  | 49.5   | 49.5   | 48.4   | 46.1   | 41.6   | 37.1   | 37.1   | 30.4   | 22.5   | 14.6   | 5.6    |
| 95°    | 41.6   | 41.6   | 40.5   | 38.3   | 34.9   | 31.5   | 31.5   | 24.8   | 19.1   | 12.4   | 4.5    |
| 97.5°  | 32.6   | 32.6   | 31.5   | 30.4   | 27.0   | 24.8   | 24.8   | 20.3   | 14.6   | 9.0    | 3.4    |
| 100°   | 24.8   | 24.8   | 23.6   | 22.5   | 21.4   | 19.1   | 18.0   | 14.6   | 11.3   | 6.8    | 2.3    |
| 102.5° | 18.0   | 18.0   | 18.0   | 16.9   | 14.6   | 13.5   | 13.5   | 11.3   | 7.9    | 5.6    | 2.3    |
| 105°   | 12.4   | 12.4   | 12.4   | 11.3   | 10.1   | 9.0    | 9.0    | 7.9    | 5.6    | 3.4    | 1.1    |
| 107.5° | 7.9    | 7.9    | 7.9    | 7.9    | 6.8    | 5.6    | 5.6    | 4.5    | 3.4    | 2.3    | 1.1    |
| 110°   | 4.5    | 3.4    | 4.5    | 4.5    | 4.5    | 3.4    | 3.4    | 2.3    | 2.3    | 1.1    | 1.1    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.1 | 1.1 | 1.1 | 1.1 |
| 115°   | 1.1 | 1.1 | 1.1 | 2.3 | 2.3 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 117.5° | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 120°   | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 122.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 125°   | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 127.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 130°   | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 132.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 140°   | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 142.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 145°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 147.5° | 1.1 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 150°   | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 152.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 155°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 157.5° | 1.1 | 1.1 | 1.1 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 160°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 162.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 165°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 167.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 170°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 172.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 175°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 177.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 180°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |





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**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 | 1473.9 |
| 2.5°   | 1473.9 | 1472.8 | 1471.7 | 1472.8 | 1471.7 | 1471.7 | 1470.5 | 1470.5 | 1469.4 | 1469.4 | 1468.3 |
| 5°     | 1473.9 | 1472.8 | 1471.7 | 1472.8 | 1470.5 | 1471.7 | 1471.7 | 1470.5 | 1469.4 | 1468.3 | 1467.2 |
| 7.5°   | 1472.8 | 1472.8 | 1470.5 | 1471.7 | 1469.4 | 1469.4 | 1468.3 | 1468.3 | 1467.2 | 1467.2 | 1466.0 |
| 10°    | 1470.5 | 1469.4 | 1469.4 | 1469.4 | 1467.2 | 1467.2 | 1466.0 | 1464.9 | 1464.9 | 1463.8 | 1462.7 |
| 12.5°  | 1468.3 | 1467.2 | 1466.0 | 1466.0 | 1464.9 | 1463.8 | 1462.7 | 1462.7 | 1461.5 | 1460.4 | 1459.3 |
| 15°    | 1464.9 | 1463.8 | 1463.8 | 1463.8 | 1462.7 | 1462.7 | 1461.5 | 1460.4 | 1458.2 | 1457.0 | 1455.9 |
| 17.5°  | 1463.8 | 1462.7 | 1463.8 | 1463.8 | 1462.7 | 1463.8 | 1461.5 | 1459.3 | 1457.0 | 1455.9 | 1454.8 |
| 20°    | 1462.7 | 1462.7 | 1462.7 | 1461.5 | 1460.4 | 1459.3 | 1458.2 | 1457.0 | 1455.9 | 1454.8 | 1453.7 |
| 22.5°  | 1457.0 | 1455.9 | 1453.7 | 1446.9 | 1439.0 | 1433.4 | 1432.3 | 1434.5 | 1434.5 | 1434.5 | 1431.2 |
| 25°    | 1446.9 | 1443.5 | 1434.5 | 1422.2 | 1408.7 | 1399.7 | 1394.0 | 1394.0 | 1392.9 | 1390.7 | 1389.5 |
| 27.5°  | 1434.5 | 1427.8 | 1412.0 | 1396.3 | 1377.2 | 1365.9 | 1352.4 | 1344.5 | 1341.2 | 1340.0 | 1337.8 |
| 30°    | 1417.7 | 1407.5 | 1387.3 | 1367.0 | 1343.4 | 1327.7 | 1306.3 | 1292.8 | 1284.9 | 1281.5 | 1279.3 |
| 32.5°  | 1397.4 | 1387.3 | 1363.7 | 1338.9 | 1310.8 | 1288.3 | 1261.3 | 1239.9 | 1225.3 | 1218.5 | 1215.1 |
| 35°    | 1383.9 | 1369.3 | 1342.3 | 1313.0 | 1284.9 | 1252.3 | 1219.6 | 1190.4 | 1167.9 | 1160.0 | 1155.5 |
| 37.5°  | 1378.3 | 1364.8 | 1335.5 | 1306.3 | 1274.8 | 1235.4 | 1197.1 | 1155.5 | 1125.1 | 1111.6 | 1107.1 |
| 40°    | 1381.7 | 1364.8 | 1332.2 | 1300.6 | 1263.5 | 1219.6 | 1169.0 | 1117.3 | 1077.9 | 1058.7 | 1054.2 |
| 42.5°  | 1373.8 | 1354.7 | 1316.4 | 1282.6 | 1236.5 | 1187.0 | 1125.1 | 1065.5 | 1012.6 | 996.9  | 990.1  |
| 45°    | 1360.3 | 1336.7 | 1295.0 | 1252.3 | 1203.9 | 1143.1 | 1079.0 | 1002.5 | 939.5  | 920.4  | 914.7  |
| 47.5°  | 1346.8 | 1314.1 | 1264.6 | 1225.3 | 1166.8 | 1095.9 | 1020.5 | 935.0  | 856.2  | 837.1  | 833.7  |
| 50°    | 1326.5 | 1296.1 | 1243.3 | 1197.1 | 1137.5 | 1055.4 | 969.9  | 863.0  | 774.1  | 741.5  | 732.5  |
| 52.5°  | 1317.5 | 1278.1 | 1227.5 | 1191.5 | 1119.5 | 1026.1 | 918.1  | 803.3  | 675.1  | 634.6  | 625.6  |
| 55°    | 1326.5 | 1277.0 | 1223.0 | 1188.1 | 1104.9 | 989.0  | 856.2  | 710.0  | 561.4  | 518.7  | 506.3  |
| 57.5°  | 1310.8 | 1268.0 | 1214.0 | 1174.6 | 1066.6 | 912.5  | 766.2  | 578.3  | 424.2  | 369.0  | 364.5  |
| 60°    | 1290.5 | 1229.8 | 1179.1 | 1143.1 | 986.7  | 768.5  | 596.3  | 411.8  | 255.4  | 208.1  | 199.1  |
| 62.5°  | 1282.6 | 1219.6 | 1161.1 | 1117.3 | 879.8  | 564.8  | 363.4  | 208.1  | 105.8  | 74.3   | 67.5   |
| 65°    | 1257.9 | 1201.6 | 1160.0 | 1098.1 | 768.5  | 348.8  | 156.4  | 61.9   | 4.5    | 3.4    | 3.4    |
| 67.5°  | 1210.6 | 1153.3 | 1125.1 | 1089.1 | 757.2  | 333.0  | 141.8  | 56.3   | 2.3    | 0.0    | 0.0    |
| 70°    | 1129.6 | 1084.6 | 1065.5 | 1046.4 | 724.6  | 308.3  | 129.4  | 50.6   | 1.1    | 0.0    | 0.0    |
| 72.5°  | 1022.7 | 992.4  | 989.0  | 986.7  | 677.3  | 284.7  | 115.9  | 45.0   | 1.1    | 0.0    | 0.0    |
| 75°    | 915.9  | 878.7  | 884.3  | 897.9  | 618.8  | 252.0  | 100.1  | 39.4   | 1.1    | 0.0    | 0.0    |
| 77.5°  | 780.8  | 753.8  | 767.3  | 789.8  | 542.3  | 213.8  | 82.1   | 31.5   | 1.1    | 0.0    | 0.0    |
| 80°    | 614.3  | 596.3  | 626.7  | 646.9  | 443.3  | 169.9  | 61.9   | 22.5   | 0.0    | 0.0    | 0.0    |
| 82.5°  | 436.5  | 426.4  | 454.6  | 480.4  | 329.7  | 120.4  | 42.8   | 14.6   | 0.0    | 0.0    | 0.0    |
| 85°    | 235.2  | 229.5  | 256.5  | 284.7  | 198.0  | 68.6   | 21.4   | 6.8    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 58.5   | 54.0   | 55.1   | 66.4   | 48.4   | 14.6   | 3.4    | 1.1    | 0.0    | 0.0    | 0.0    |
| 90°    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P821239  
 CATALOG NUMBER: TT-D4-735-24VDC-MQ-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 1.1 | 1.1 | 1.1  | 1.1  | 1.1  | 1.1  | 1.1  | 1.1  | 1.1  | 1.1  | 1.1  |

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