

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: P526284

Luminaire Tested: **GALN-SA1B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

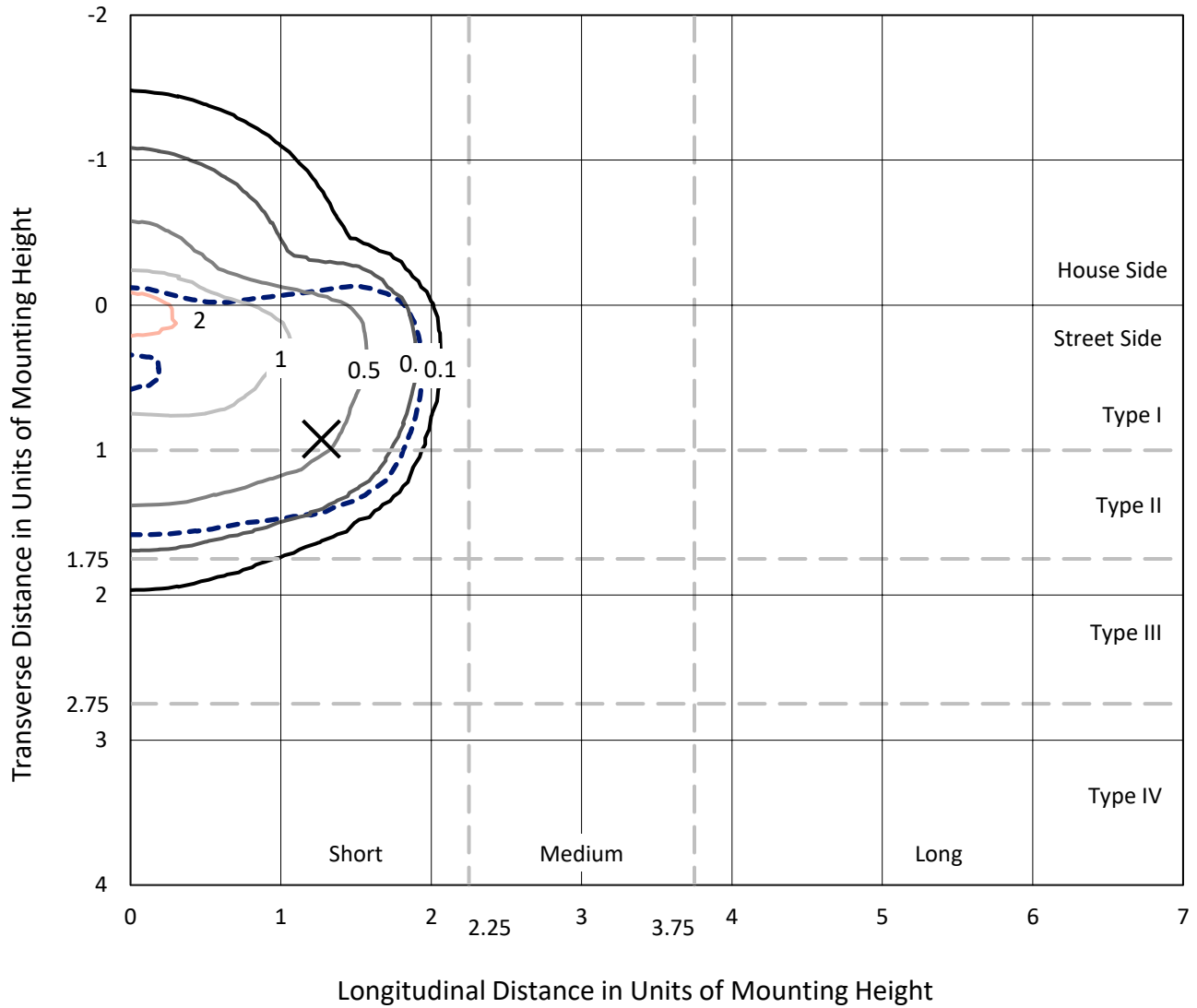
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

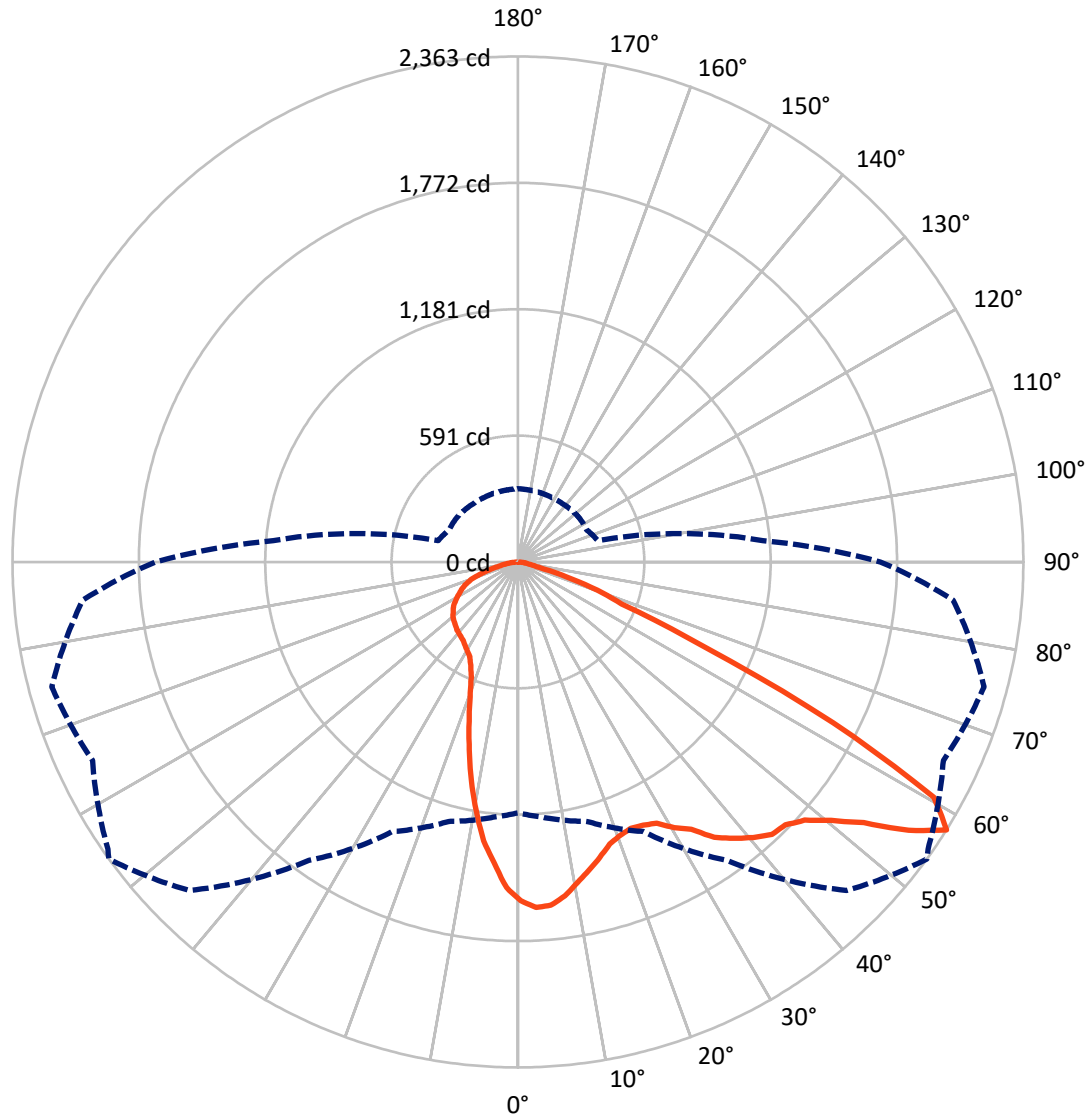
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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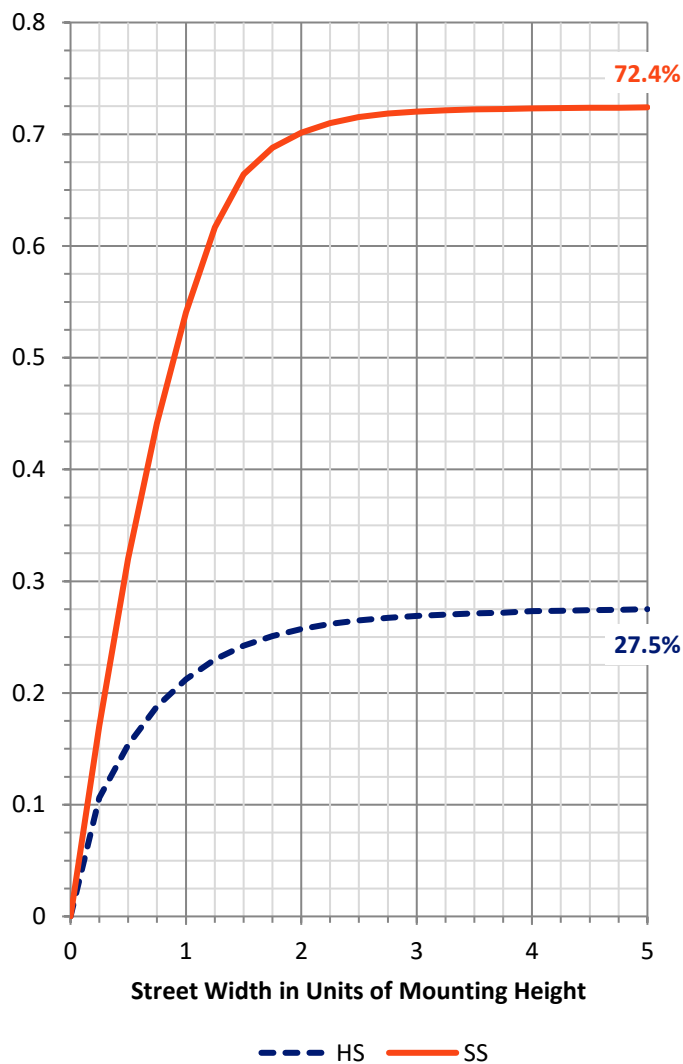
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.1	0.0	1127.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2946.9	0.0	2946.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	4074.0	0.0	4074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.4
10°-20°	316.2	7.8
20°-30°	444.3	10.9
30°-40°	621.1	15.2
40°-50°	840.8	20.6
50°-60°	1024.2	25.1
60°-70°	533.4	13.1
70°-80°	136.7	3.4
80°-90°	20.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4074.0	100.0
0°-180°	4074.0	100.0

Coefficient of Utilization



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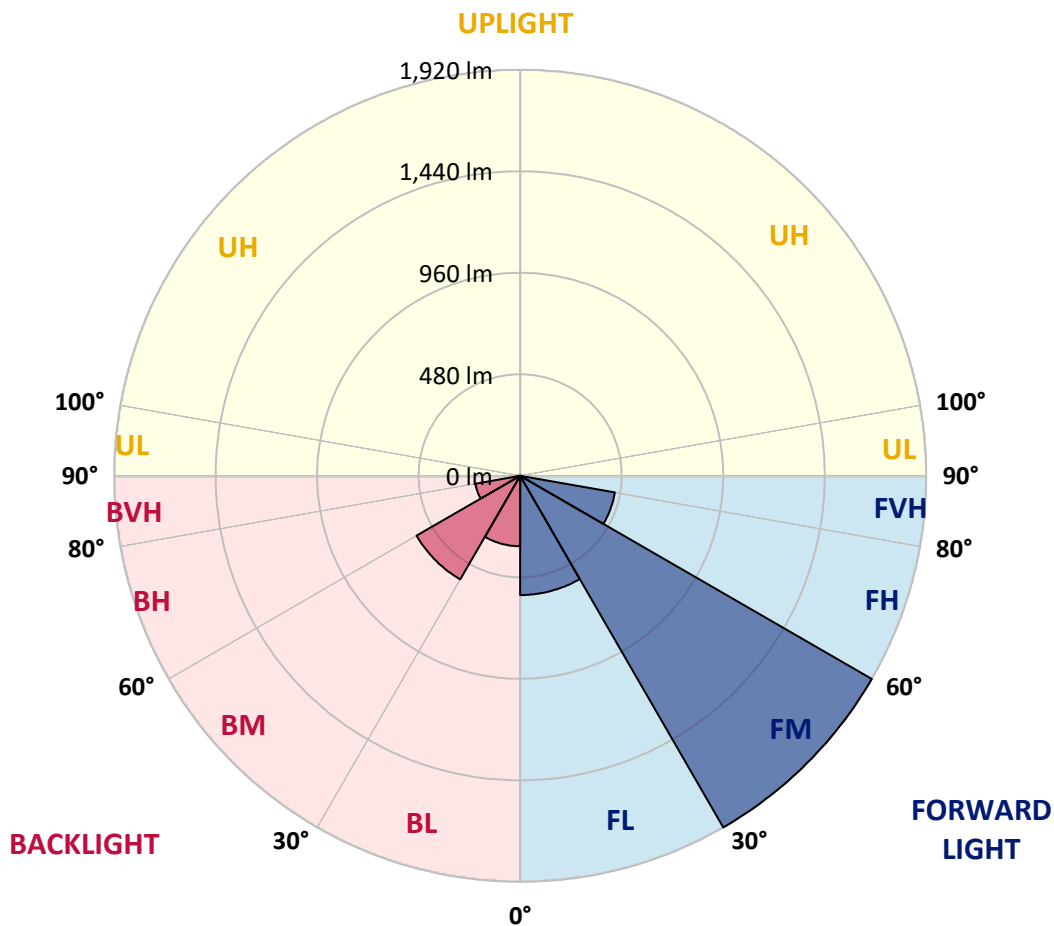
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.9	13.8			
FM (30°-60°)	1920.4	47.1			
FH (60°-80°)	454.8	11.2			G0/660
FVH (80°-90°)	7.9	0.2			G0/10
BL (0°-30°)	333.1	8.2	B1/500		
BM (30°-60°)	565.7	13.9	B1/1000		
BH (60°-80°)	215.3	5.3	B1/500		G1/500
BVH (80°-90°)	13.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1628.6	1622.3	1623.3	1631.7	1621.2	1617.0	1617.0	1596.6	1598.2	1584.0	1580.4
5°	1590.8	1576.2	1586.1	1598.7	1600.8	1605.0	1611.8	1606.6	1591.9	1576.7	1552.1
7.5°	1492.4	1505.5	1509.2	1518.1	1536.9	1554.2	1575.7	1561.0	1560.5	1545.3	1530.6
10°	1406.0	1398.1	1418.0	1431.1	1462.6	1491.4	1524.3	1522.8	1530.6	1513.3	1488.2
12.5°	1320.1	1313.8	1323.3	1353.1	1397.1	1439.0	1478.3	1463.6	1505.5	1502.4	1448.4
15°	1229.0	1233.7	1247.3	1275.1	1332.7	1383.0	1432.7	1433.2	1470.4	1483.0	1410.7
17.5°	1165.1	1159.9	1177.2	1218.5	1269.9	1330.1	1386.6	1398.1	1455.2	1462.6	1399.2
20°	1117.5	1124.8	1147.3	1168.3	1227.4	1300.2	1364.1	1368.3	1452.1	1472.0	1380.9
22.5°	1105.9	1101.8	1109.1	1143.1	1191.8	1270.9	1352.1	1367.8	1451.6	1468.8	1346.3
25°	1093.9	1107.5	1107.0	1141.0	1176.6	1247.3	1362.0	1379.3	1479.3	1485.1	1351.0
27.5°	1121.1	1119.6	1134.2	1136.8	1180.8	1253.6	1383.0	1396.1	1525.4	1520.7	1354.7
30°	1148.4	1140.5	1149.4	1180.3	1200.7	1289.7	1440.6	1439.5	1585.1	1581.9	1366.2
32.5°	1181.9	1178.2	1184.0	1211.2	1245.8	1337.9	1489.3	1520.2	1645.8	1665.7	1406.0
35°	1188.2	1203.3	1217.0	1253.6	1302.8	1415.9	1580.9	1606.6	1716.0	1778.3	1481.9
37.5°	1228.0	1233.7	1265.7	1330.6	1375.6	1520.2	1639.0	1655.3	1779.9	1850.6	1562.0
40°	1270.4	1277.2	1325.4	1393.4	1455.2	1588.2	1693.5	1698.7	1800.3	1906.1	1614.4
42.5°	1328.0	1334.3	1381.9	1467.3	1550.0	1646.4	1741.7	1747.4	1798.7	1970.0	1697.7
45°	1387.7	1402.9	1458.9	1555.8	1630.1	1714.4	1752.7	1776.2	1813.4	2027.0	1765.2
47.5°	1471.5	1485.6	1531.7	1626.5	1713.4	1774.1	1803.5	1826.5	1848.5	2076.8	1808.7
50°	1560.5	1563.1	1619.1	1705.0	1768.9	1841.7	1898.2	1906.1	1894.6	2134.4	1882.5
52.5°	1625.9	1634.3	1677.8	1761.6	1856.9	1946.4	2023.9	2032.3	2009.8	2155.9	1907.7
55°	1517.5	1512.8	1583.5	1695.1	1916.0	2102.5	2215.0	2221.3	2093.6	2222.4	1989.9
57.5°	1173.0	1195.5	1255.7	1390.3	1702.4	2171.6	2362.7	2340.2	2194.1	2255.9	2042.2
60°	852.5	847.3	887.6	977.7	1282.9	1871.5	2233.9	2256.9	2111.9	2033.3	1684.1
62.5°	694.4	687.0	690.2	693.3	827.9	1242.1	1653.7	1653.2	1626.5	1461.5	1135.8
65°	555.1	572.3	573.9	597.5	614.8	742.0	958.3	1009.6	879.2	721.1	523.1
67.5°	418.4	412.1	433.1	516.8	549.3	535.7	523.1	528.9	376.0	271.3	255.5
70°	246.6	244.0	269.2	360.3	452.4	425.7	394.3	394.8	258.2	189.6	211.0
72.5°	135.1	134.6	139.8	182.8	257.1	267.1	236.7	244.0	154.0	153.4	164.9
75°	75.4	73.8	72.3	80.6	92.7	97.9	100.0	101.1	105.8	118.3	123.1
77.5°	27.8	26.7	26.7	30.9	39.3	49.2	62.3	63.4	74.9	85.9	90.6
80°	9.4	10.5	14.1	19.4	26.2	35.1	42.4	43.5	52.9	60.2	61.8
82.5°	5.8	6.3	9.4	13.6	18.9	24.6	31.4	31.9	39.3	44.0	46.1
85°	2.6	3.1	5.2	8.4	12.0	16.2	16.8	16.8	16.2	16.8	15.7
87.5°	0.0	0.0	1.0	1.0	1.0	1.6	2.1	1.6	2.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1569.4	1563.6	1545.8	1530.1	1525.4	1504.4	1473.6	1477.2	1454.7	1465.2	1454.2
5°	1547.9	1528.5	1483.0	1463.6	1412.8	1389.8	1374.1	1334.8	1316.5	1312.8	1297.1
7.5°	1492.9	1480.9	1423.8	1371.4	1317.5	1271.4	1212.2	1171.9	1143.1	1135.3	1112.2
10°	1449.5	1422.8	1343.7	1264.1	1187.1	1107.0	1030.0	969.8	940.5	906.4	894.9
12.5°	1406.5	1366.2	1259.4	1157.3	1057.8	956.7	863.5	790.2	726.3	711.1	705.9
15°	1379.8	1309.6	1184.0	1060.9	919.5	787.6	694.4	646.2	606.9	590.7	602.2
17.5°	1344.7	1263.0	1111.7	947.8	792.3	670.8	592.8	562.9	548.8	550.4	545.6
20°	1300.7	1219.1	1016.9	845.2	678.7	581.8	537.3	526.3	528.4	532.0	530.5
22.5°	1269.3	1165.6	948.3	740.4	586.5	532.6	514.2	506.4	513.2	516.3	513.7
25°	1245.2	1120.1	865.1	647.8	533.1	504.8	496.4	495.9	506.4	510.6	507.9
27.5°	1223.2	1077.7	782.3	577.1	497.5	483.3	480.7	487.0	493.8	498.0	501.7
30°	1210.2	1045.2	704.8	517.9	479.7	472.9	468.1	473.9	477.6	481.8	479.7
32.5°	1222.7	1022.2	630.0	484.4	465.0	458.2	464.5	460.8	467.1	470.8	465.0
35°	1262.0	1001.7	576.5	466.6	448.2	450.9	451.9	450.3	453.0	449.8	456.6
37.5°	1300.7	994.4	527.3	451.4	440.4	440.4	439.3	436.2	441.4	440.4	443.5
40°	1350.0	999.1	485.4	435.2	433.1	432.0	427.8	427.3	425.2	425.7	426.8
42.5°	1392.9	1009.6	461.3	424.7	426.3	428.3	420.5	414.2	416.8	411.6	411.6
45°	1438.5	1019.0	439.9	417.3	415.8	415.3	409.0	405.3	403.2	403.7	408.4
47.5°	1510.2	1032.6	423.6	407.4	408.4	400.6	399.0	394.3	396.4	399.5	400.1
50°	1561.0	1061.4	411.1	395.9	399.5	394.3	384.9	382.8	382.8	388.0	387.0
52.5°	1596.6	1101.8	399.0	383.3	384.9	380.7	377.6	372.8	369.7	377.0	380.7
55°	1705.5	1168.8	395.9	372.8	372.3	368.1	362.4	357.7	356.1	357.1	364.5
57.5°	1695.1	1147.8	385.9	354.5	353.5	347.7	341.9	340.4	339.8	340.9	343.0
60°	1376.2	847.8	344.6	333.6	332.0	330.9	325.2	318.9	315.8	318.9	316.3
62.5°	910.6	567.6	303.7	308.4	309.5	306.9	297.4	291.1	292.2	295.9	290.1
65°	447.2	333.6	275.4	288.0	289.1	281.7	272.8	265.5	261.8	265.0	262.3
67.5°	255.5	255.0	252.4	265.5	265.0	257.6	243.5	237.2	230.9	232.0	230.4
70°	216.8	221.0	226.2	234.1	233.5	225.2	208.4	203.7	194.8	193.8	191.1
72.5°	170.7	178.0	189.6	195.3	190.6	180.1	169.1	161.3	153.4	148.7	150.3
75°	126.7	137.2	143.5	147.1	139.8	134.1	125.2	115.7	106.3	102.1	100.5
77.5°	92.2	95.3	101.1	103.7	99.0	93.2	88.0	78.5	69.6	63.9	62.3
80°	64.4	66.5	70.7	70.7	70.7	68.1	61.3	51.8	46.1	40.8	39.8
82.5°	45.0	47.1	51.3	49.2	48.7	45.6	41.4	34.0	27.8	24.1	23.0
85°	15.7	17.3	20.9	25.1	26.7	26.2	23.6	18.9	14.7	12.0	11.0
87.5°	3.7	3.7	4.2	3.7	3.7	4.2	3.7	3.7	3.7	2.6	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)