

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: P522701

Luminaire Tested: **GALN-SA3B-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12496 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

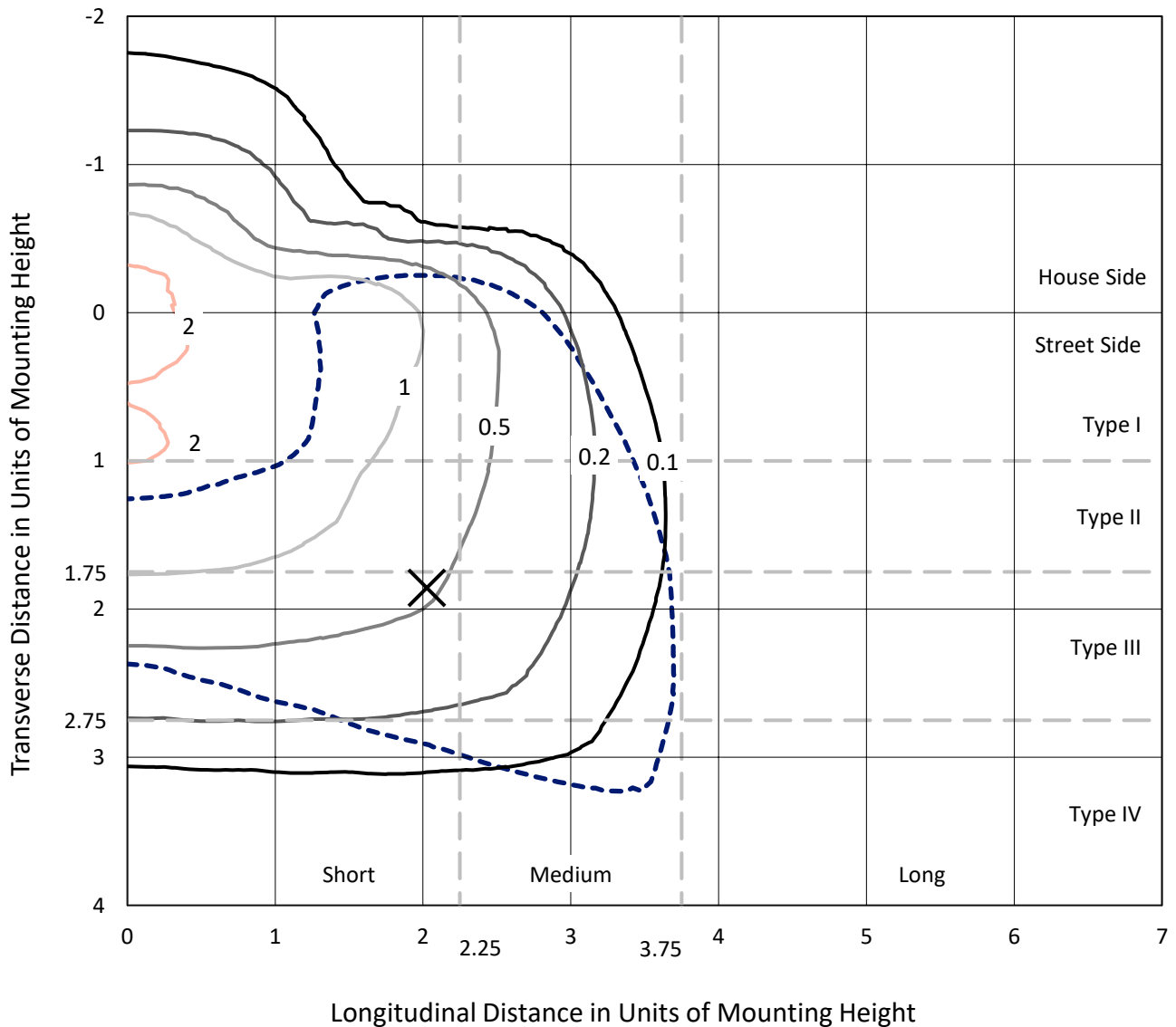
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

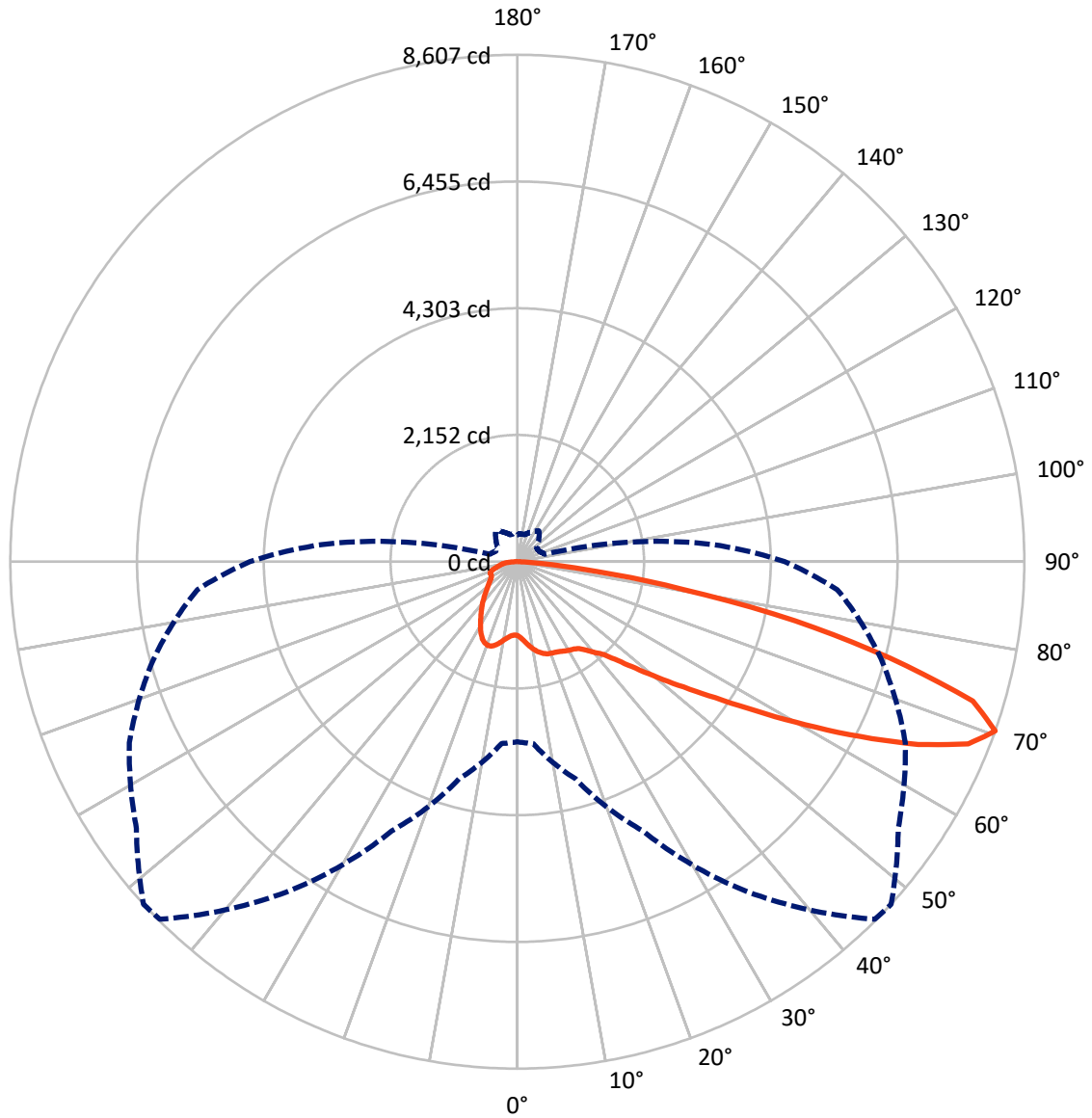
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2829.3	0.0	2829.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	9666.7	0.0	9666.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	12496.0	0.0	12496.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	1.0
10°-20°	432.3	3.5
20°-30°	718.9	5.8
30°-40°	1018.9	8.2
40°-50°	1504.1	12.0
50°-60°	2605.2	20.8
60°-70°	3680.0	29.4
70°-80°	2115.4	16.9
80°-90°	291.9	2.3
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°	12496.0	100.0
0°-180°	12496.0	100.0

**Coefficient of Utilization**



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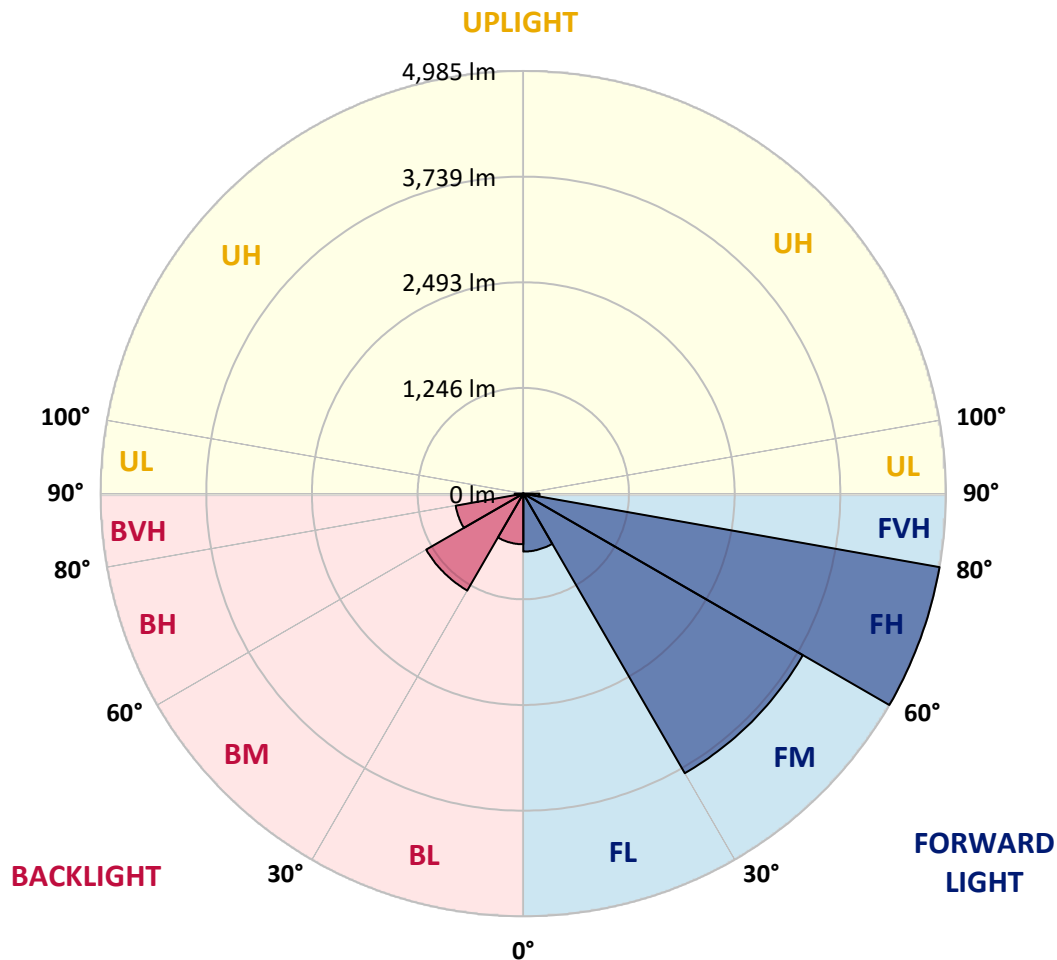
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.3	5.5			
FM	(30°-60°)	3807.3	30.5			
FH	(60°-80°)	4985.4	39.9			G2/5000
FVH	(80°-90°)	190.7	1.5			G2/225
BL	(0°-30°)	597.2	4.8	B2/1000		
BM	(30°-60°)	1321.0	10.6	B2/2500		
BH	(60°-80°)	810.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	101.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4
2.5°	1335.4	1330.7	1330.0	1320.0	1314.6	1304.6	1300.6	1291.2	1279.9	1268.5	1257.8
5°	1440.3	1440.3	1435.7	1421.6	1399.6	1376.8	1366.8	1348.7	1316.6	1290.6	1268.5
7.5°	1548.0	1549.3	1540.0	1519.2	1487.8	1451.0	1441.7	1414.9	1369.5	1331.3	1298.6
10°	1640.9	1640.9	1628.2	1600.2	1560.7	1520.6	1511.2	1481.1	1430.3	1382.8	1340.0
12.5°	1711.8	1711.8	1695.1	1658.3	1615.5	1579.4	1568.7	1540.0	1492.5	1439.7	1385.5
15°	1758.0	1754.6	1735.9	1694.4	1653.0	1621.6	1614.2	1590.1	1546.7	1493.2	1432.3
17.5°	1760.0	1758.6	1740.6	1705.8	1669.7	1648.3	1643.6	1627.6	1593.5	1542.7	1478.5
20°	1721.2	1723.9	1711.8	1687.1	1669.7	1660.3	1658.3	1653.0	1628.9	1581.4	1517.2
22.5°	1679.7	1684.4	1673.0	1659.7	1658.3	1667.7	1669.0	1670.4	1655.0	1608.8	1550.0
25°	1669.7	1673.0	1661.7	1649.6	1657.0	1681.7	1687.1	1692.4	1680.4	1641.6	1588.8
27.5°	1720.5	1717.8	1695.8	1669.7	1674.4	1707.8	1715.2	1721.2	1715.2	1681.7	1636.9
30°	1864.3	1855.6	1811.5	1735.2	1711.2	1734.6	1741.9	1758.6	1758.6	1733.9	1689.1
32.5°	2105.0	2088.3	2007.4	1857.6	1774.0	1760.0	1767.3	1794.7	1808.8	1789.4	1740.6
35°	2397.2	2379.8	2264.2	2062.9	1889.0	1810.8	1808.8	1839.5	1877.0	1833.5	1770.0
37.5°	2690.8	2672.7	2533.6	2307.6	2056.9	1917.8	1905.7	1916.4	1932.5	1852.9	1810.8
40°	2984.3	2962.9	2841.2	2581.1	2262.2	2059.5	2028.1	1980.0	1973.3	1916.4	1889.7
42.5°	3275.2	3255.8	3194.3	2888.0	2508.2	2198.0	2149.8	2066.9	2092.3	2058.2	2034.8
45°	3568.8	3570.1	3504.6	3232.4	2805.1	2453.4	2388.5	2258.8	2319.0	2306.3	2319.7
47.5°	3828.9	3825.5	3802.1	3566.8	3173.6	2782.4	2698.8	2548.3	2651.3	2698.1	2800.4
50°	4081.0	4079.0	4080.3	3945.9	3601.5	3173.6	3081.3	2923.5	3155.5	3318.0	3501.2
52.5°	4442.1	4453.4	4372.5	4337.1	4121.8	3635.6	3534.0	3370.8	3751.3	4007.4	4365.2
55°	4804.5	4795.1	4731.6	4768.4	4666.1	4182.6	4076.3	3946.6	4414.6	4694.8	5232.4
57.5°	5017.8	5021.1	5086.0	5265.9	5338.1	4864.7	4768.4	4668.1	5160.2	5358.8	6004.1
60°	5209.7	5225.1	5411.6	5751.3	5947.3	5702.5	5616.9	5519.3	5844.3	5923.2	6674.1
62.5°	5269.9	5317.4	5643.0	6151.2	6541.1	6648.0	6541.7	6326.4	6495.6	6464.8	7128.2
65°	4969.6	5034.5	5618.3	6301.0	7071.3	7545.4	7477.9	7078.0	7050.6	6865.4	7202.4
67.5°	4179.3	4244.1	4993.7	5986.7	7290.6	8322.4	8254.9	7626.3	7387.6	6902.8	6640.7
70°	3057.9	3098.7	3815.5	5040.5	6850.0	8583.2	8606.6	7893.8	7267.2	6393.9	5452.4
72.5°	1762.0	1852.3	2354.4	3546.0	5596.2	7923.9	8086.4	7337.5	6506.3	5334.1	3812.2
75°	757.6	759.6	1088.6	1955.9	3790.1	6369.2	6526.3	6082.3	5109.4	3688.5	2035.5
77.5°	360.4	367.1	478.8	873.3	2086.3	4400.6	4824.5	4297.0	3267.9	1772.0	769.0
80°	234.0	238.7	292.9	433.3	1023.1	2551.7	2847.2	2478.8	1441.7	633.2	331.7
82.5°	141.8	143.1	195.9	264.8	563.0	1155.5	1362.1	1075.9	615.2	379.1	195.3
85°	86.3	86.9	119.0	163.8	341.7	399.2	409.9	406.6	361.1	248.1	104.3
87.5°	41.5	42.8	61.5	77.6	134.4	123.7	117.0	135.7	170.5	133.7	44.8
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°	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4	1254.4
2.5°	1253.1	1251.1	1246.4	1244.4	1243.1	1243.7	1243.1	1243.1	1243.7	1243.7	1243.7
5°	1259.1	1255.8	1248.4	1248.4	1252.4	1261.8	1270.5	1277.2	1284.5	1283.9	1283.9
7.5°	1285.2	1279.2	1270.5	1273.2	1283.2	1297.9	1313.3	1328.0	1342.7	1344.1	1343.4
10°	1323.3	1317.3	1307.9	1311.3	1327.3	1349.4	1368.8	1390.2	1406.2	1410.9	1409.6
12.5°	1366.8	1354.8	1346.7	1356.1	1381.5	1410.9	1429.6	1445.7	1457.1	1463.7	1461.1
15°	1410.9	1399.6	1390.2	1409.6	1440.3	1467.8	1477.1	1479.8	1481.8	1488.5	1487.1
17.5°	1453.7	1438.3	1435.0	1460.4	1489.8	1501.9	1496.5	1485.1	1476.5	1481.8	1481.1
20°	1491.8	1479.8	1478.5	1503.9	1515.2	1503.9	1481.1	1461.1	1445.7	1447.0	1446.4
22.5°	1527.9	1518.6	1519.9	1530.6	1512.6	1473.8	1436.3	1408.9	1392.2	1395.5	1397.5
25°	1568.1	1558.7	1562.0	1544.7	1485.1	1417.6	1363.4	1340.0	1333.4	1340.0	1344.7
27.5°	1620.2	1614.2	1612.2	1545.3	1436.3	1334.7	1273.2	1264.5	1270.5	1285.2	1292.6
30°	1676.4	1676.4	1665.7	1534.0	1369.5	1235.1	1181.6	1182.9	1203.6	1224.4	1231.7
32.5°	1730.5	1741.9	1708.5	1503.2	1283.2	1138.1	1097.3	1098.6	1116.7	1142.1	1148.8
35°	1775.4	1808.1	1745.3	1447.0	1181.6	1056.5	1025.8	1007.7	1008.4	1027.8	1033.1
37.5°	1836.9	1897.7	1766.7	1363.4	1073.2	987.0	952.2	920.8	900.0	892.0	892.0
40°	1943.9	2033.5	1772.0	1239.7	970.9	920.8	871.3	833.8	793.7	757.6	750.9
42.5°	2125.1	2238.1	1761.3	1097.3	878.6	847.9	799.7	753.6	698.1	647.3	643.3
45°	2446.0	2504.2	1732.6	949.5	796.4	777.7	730.9	680.7	621.9	576.4	573.1
47.5°	2960.3	2878.0	1694.4	818.5	721.5	716.2	680.0	621.9	563.0	531.6	528.3
50°	3711.2	3466.4	1689.1	723.5	661.3	664.0	634.6	581.1	529.6	503.5	499.5
52.5°	4615.2	4177.3	1724.5	656.6	608.5	618.5	603.8	554.3	508.9	486.8	482.8
55°	5492.6	4816.5	1745.9	604.5	559.0	577.7	579.7	538.3	496.8	474.8	472.1
57.5°	6204.7	5298.0	1651.0	557.0	516.2	545.0	559.7	528.9	490.8	474.1	471.4
60°	6700.2	5525.3	1380.8	514.9	484.8	518.9	552.3	529.6	505.5	507.5	508.9
62.5°	6858.0	5424.4	1035.8	483.5	463.4	510.2	564.4	557.0	532.3	547.7	550.3
65°	6596.6	5007.1	750.9	458.7	444.7	516.2	600.5	577.1	522.9	534.3	534.3
67.5°	5721.2	4313.7	584.4	436.0	423.3	527.6	636.6	575.1	500.8	514.2	502.2
70°	4538.3	3336.7	486.8	410.6	400.5	510.9	639.9	554.3	474.8	477.4	454.7
72.5°	3011.7	2193.9	418.6	386.5	365.8	459.4	612.5	527.6	449.4	434.0	411.2
75°	1475.8	1094.0	365.1	356.4	320.3	399.9	575.1	502.2	421.9	397.9	385.2
77.5°	571.7	465.4	311.6	318.3	278.8	352.4	525.6	466.1	385.8	353.1	343.0
80°	277.5	264.1	255.4	265.5	229.4	300.2	480.1	434.6	352.4	316.3	301.6
82.5°	172.5	163.2	195.9	206.6	176.5	274.2	455.4	407.9	310.3	262.1	250.1
85°	87.6	93.6	131.1	141.1	126.4	218.0	375.1	306.3	224.0	185.9	187.2
87.5°	33.4	44.8	68.9	74.2	67.5	115.0	206.6	178.5	143.8	97.6	90.3
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)