

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: P382895

Luminaire Tested: **GLEON-SA2C-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13228.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

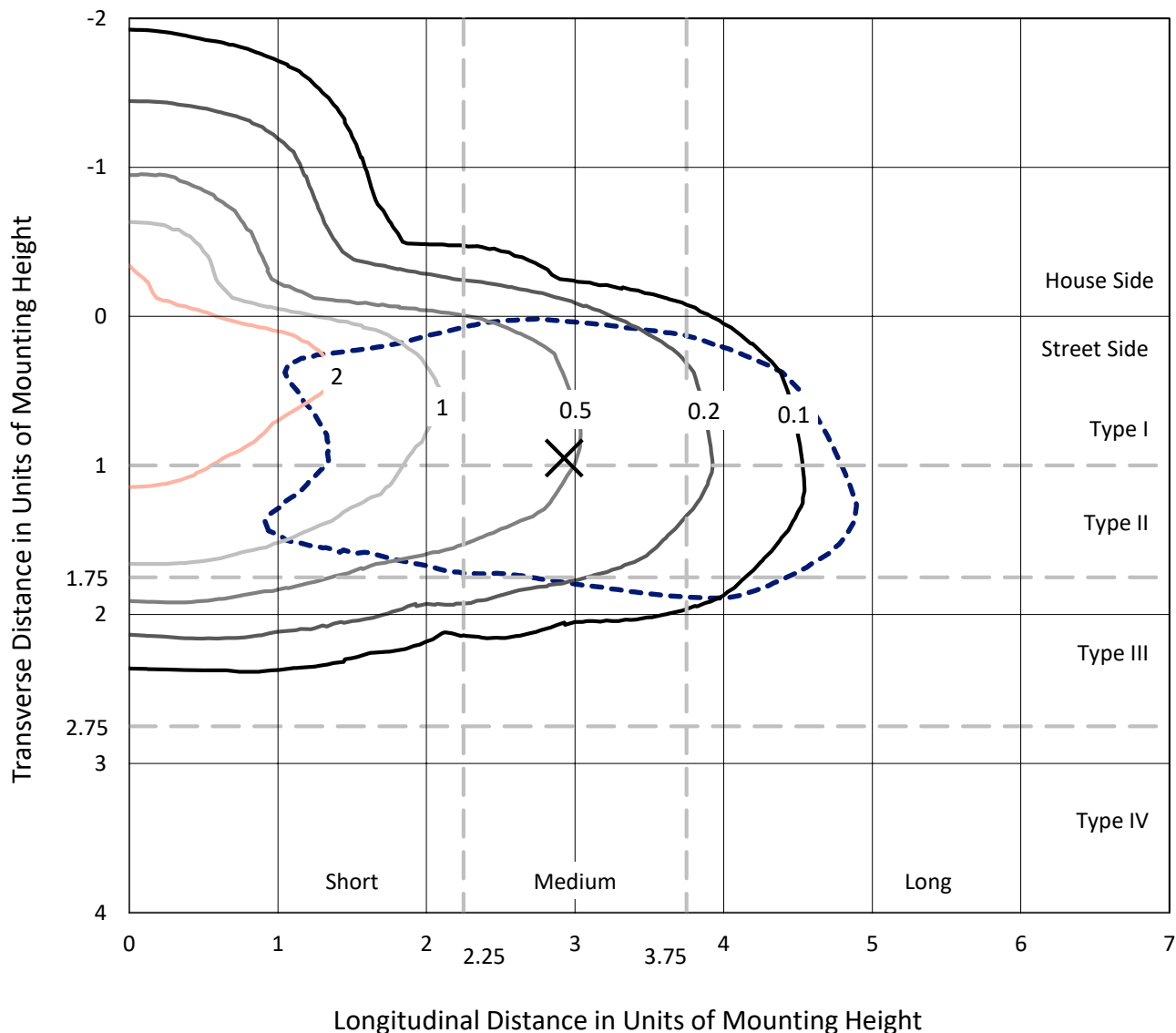
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

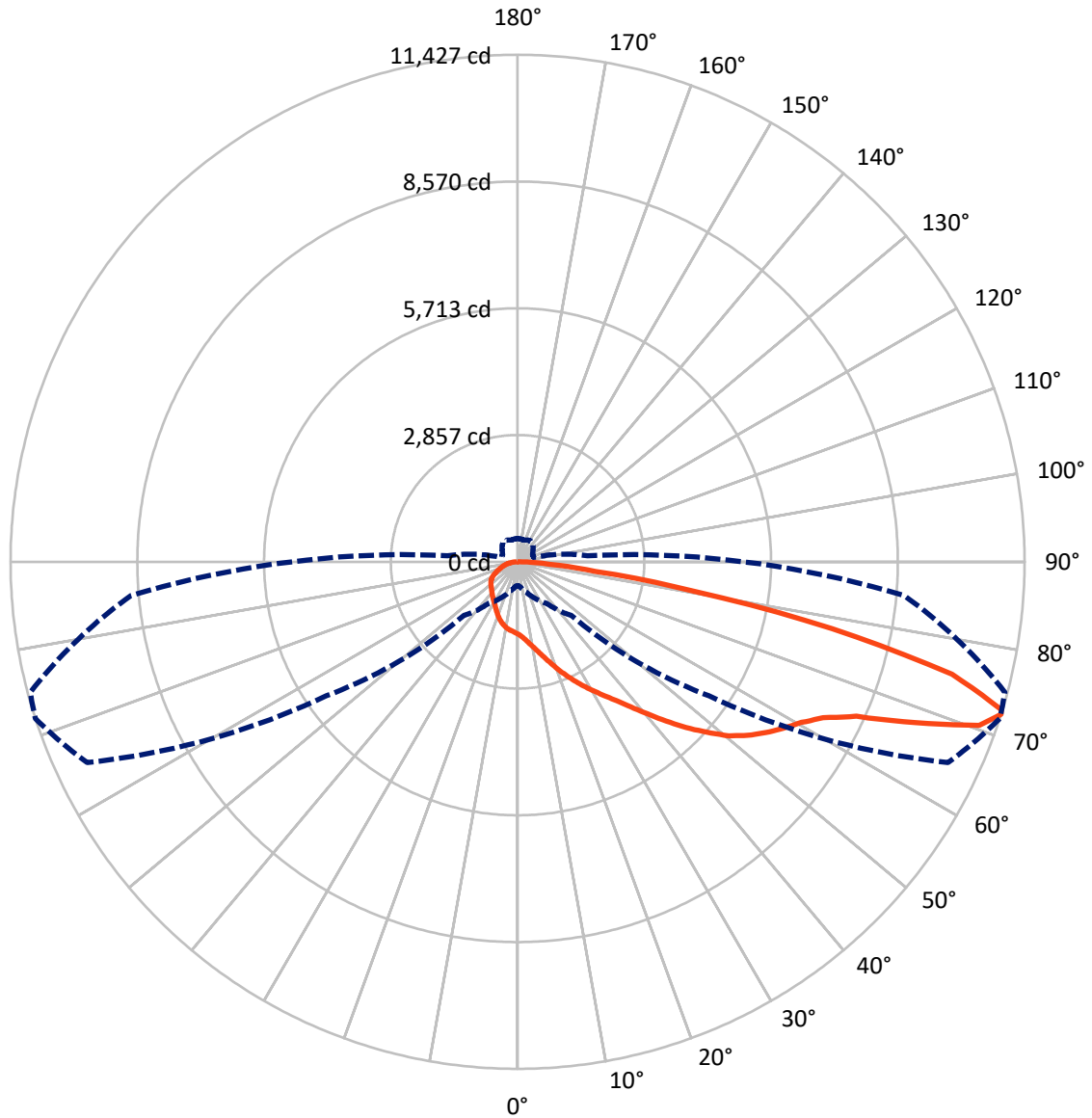
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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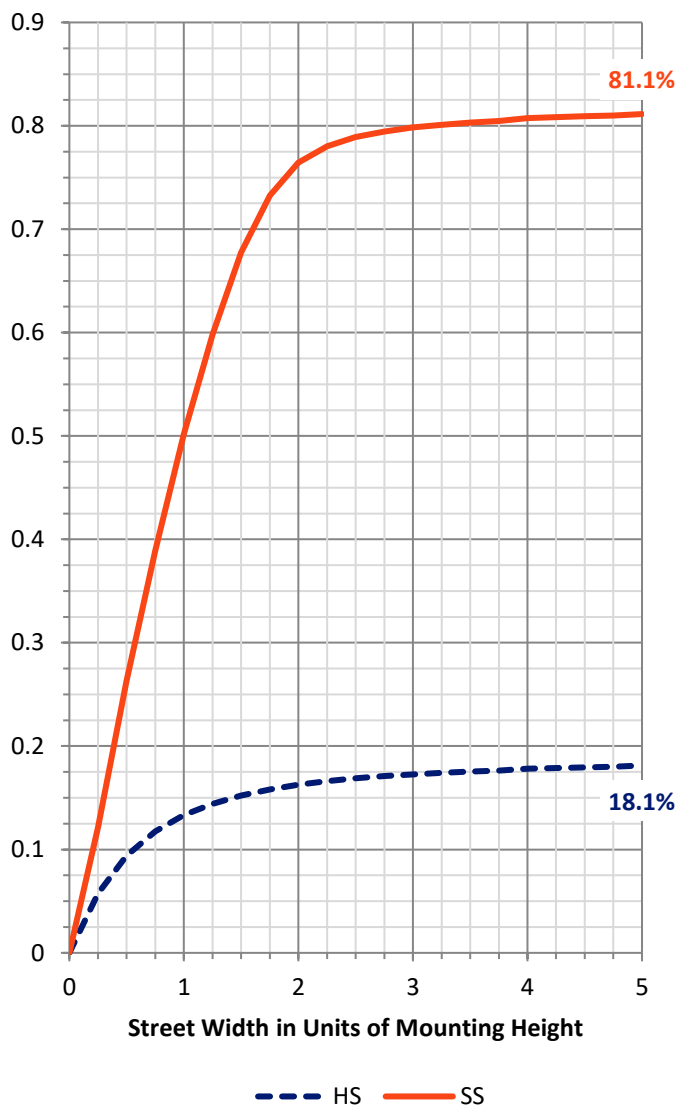
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2454.0	0.0	2454.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	10774.9	0.0	10774.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13228.9	0.0	13228.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	1.2
10°-20°	527.0	4.0
20°-30°	923.5	7.0
30°-40°	1369.2	10.4
40°-50°	2002.6	15.1
50°-60°	2755.5	20.8
60°-70°	3067.7	23.2
70°-80°	2078.7	15.7
80°-90°	341.6	2.6
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°	13228.9	100.0
0°-180°	13228.9	100.0

**Coefficient of Utilization**

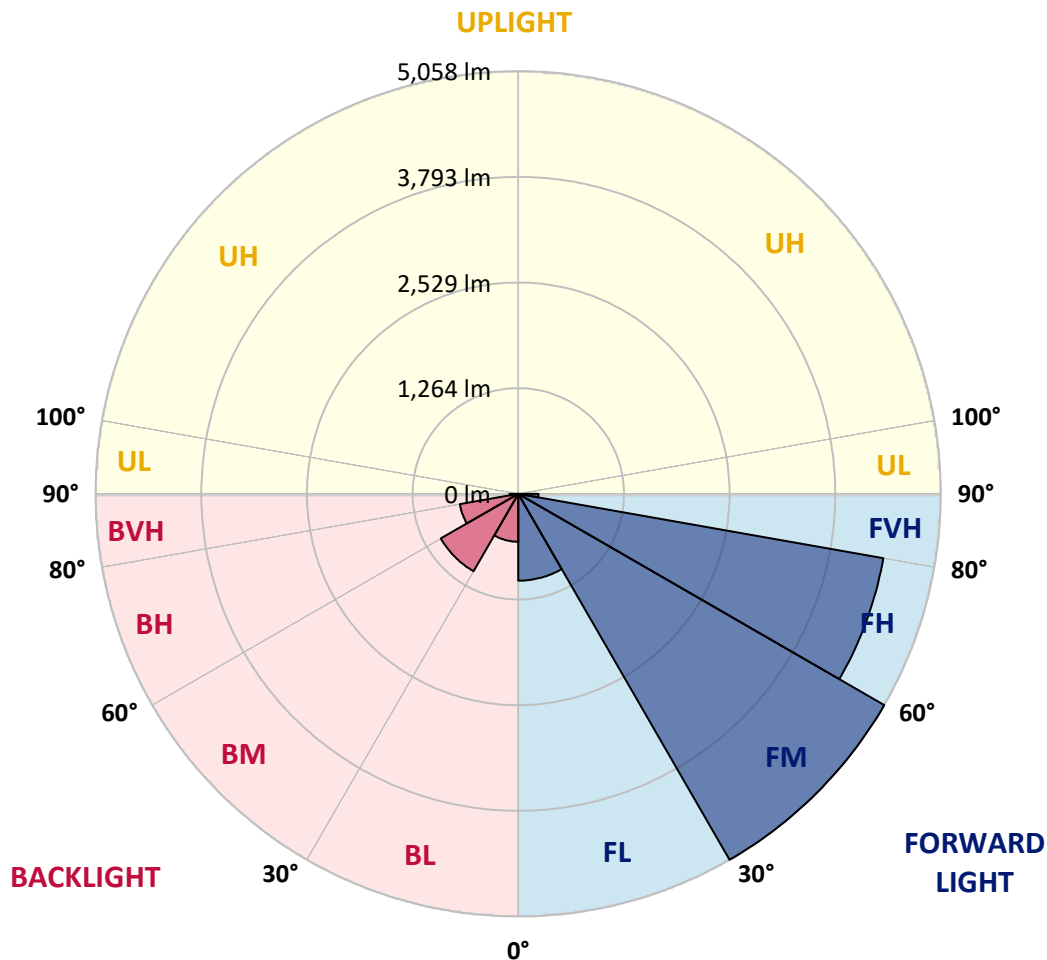


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.9	7.9			
FM (30°-60°)	5057.6	38.2			
FH (60°-80°)	4436.4	33.5			G2/5000
FVH (80°-90°)	241.0	1.8			G3/500
BL (0°-30°)	573.7	4.3	B2/1000		
BM (30°-60°)	1069.7	8.1	B2/2500		
BH (60°-80°)	710.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	100.7	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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5
2.5°	1797.9	1795.1	1785.6	1785.6	1767.3	1751.9	1722.7	1703.1	1679.9	1671.7	1644.4
5°	1971.9	1972.7	1960.9	1952.7	1925.9	1893.1	1843.4	1798.4	1753.2	1735.0	1678.9
7.5°	2118.1	2116.3	2113.0	2106.2	2081.2	2047.4	1980.5	1913.6	1847.1	1819.7	1723.2
10°	2211.9	2216.0	2218.8	2221.9	2211.5	2187.3	2124.0	2042.4	1955.5	1918.1	1776.0
12.5°	2259.3	2266.5	2279.3	2301.2	2318.5	2315.7	2269.7	2183.2	2079.8	2032.9	1842.0
15°	2287.0	2296.6	2316.7	2355.9	2404.6	2432.4	2420.1	2341.7	2226.5	2168.6	1922.6
17.5°	2304.4	2312.1	2343.1	2395.5	2467.9	2541.7	2574.1	2508.5	2392.3	2326.3	2015.1
20°	2316.2	2322.2	2360.8	2422.3	2516.2	2633.7	2723.8	2707.4	2575.0	2489.3	2111.7
22.5°	2342.7	2347.7	2384.6	2446.5	2550.3	2702.0	2868.3	2892.9	2767.6	2670.6	2215.1
25°	2416.4	2416.4	2447.4	2490.7	2588.1	2761.2	2990.4	3099.3	2964.4	2851.5	2310.8
27.5°	2557.2	2555.8	2567.2	2582.2	2656.0	2821.4	3099.3	3281.4	3168.5	3045.0	2403.7
30°	2723.8	2733.0	2734.4	2727.1	2761.7	2896.6	3199.9	3473.6	3373.9	3240.9	2498.9
32.5°	2938.5	2944.3	2937.5	2913.4	2908.4	3003.1	3298.7	3675.0	3596.1	3445.4	2585.9
35°	3210.9	3199.4	3178.1	3128.8	3081.9	3145.6	3411.7	3876.3	3845.8	3692.7	2705.7
37.5°	3502.8	3503.3	3476.8	3365.2	3300.6	3327.9	3567.5	4104.5	4147.8	3987.0	2859.2
40°	3736.9	3749.2	3765.6	3619.0	3535.1	3573.0	3765.6	4369.1	4504.9	4335.9	3059.1
42.5°	3900.5	3914.5	3961.0	3869.0	3782.0	3852.1	3998.9	4651.6	4905.7	4738.6	3293.3
45°	4073.6	4081.3	4114.1	4074.4	4018.9	4177.0	4261.6	4944.0	5329.8	5167.7	3555.2
47.5°	4255.8	4264.0	4297.6	4271.2	4242.1	4480.3	4535.9	5219.6	5736.1	5639.1	3834.8
50°	4480.7	4486.2	4518.1	4470.3	4479.3	4709.0	4780.9	5472.4	6162.0	6062.7	4115.5
52.5°	4787.8	4789.1	4833.3	4790.0	4747.3	4876.6	4991.8	5710.6	6495.9	6449.0	4396.1
55°	5028.3	5042.8	5187.7	5178.6	5154.0	5028.7	5168.1	5937.4	6793.8	6816.1	4693.9
57.5°	4874.8	4931.7	5225.1	5431.9	5633.2	5407.3	5406.3	6193.0	7070.7	7176.4	5021.4
60°	4269.4	4346.9	4779.1	5237.8	5867.7	6065.9	5901.0	6505.0	7350.4	7533.5	5431.9
62.5°	3049.1	3176.7	3762.4	4494.9	5546.2	6502.3	6907.6	7000.1	7730.7	7947.1	5965.3
65°	1541.4	1637.9	2129.1	3011.3	4431.1	6217.1	8001.8	8084.2	8391.7	8583.9	6786.5
67.5°	936.5	972.9	1212.5	1674.8	2716.6	4842.8	8358.9	9891.2	9670.7	9772.8	7957.6
70°	690.1	716.9	866.3	1112.4	1562.4	2841.9	7262.9	11180.7	11035.9	11024.5	8823.1
72°	537.5	557.1	689.2	898.7	1142.4	1704.9	5264.2	10704.7	11426.6	11369.3	8743.8
72.5°	509.7	527.0	647.2	845.8	1079.6	1545.5	4733.1	10383.6	11398.4	11372.4	8641.3
75°	401.3	413.6	479.2	654.1	844.9	876.9	2593.6	8046.9	10111.7	10532.1	7772.2
77.5°	332.1	333.9	368.5	476.0	658.7	619.9	1274.1	5583.0	7240.6	7703.0	5505.6
80°	270.5	272.9	289.2	333.9	498.3	458.7	604.9	3210.4	4053.9	4058.9	2618.2
82.5°	215.5	215.9	234.1	244.2	358.0	328.0	346.6	1507.2	1771.4	1704.0	941.0
85°	151.7	148.5	228.7	200.4	234.1	210.4	191.3	596.7	732.5	700.5	294.7
87.5°	50.6	52.4	101.5	129.9	136.7	119.3	85.1	228.7	276.5	274.2	93.3
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°	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5	1627.5
2.5°	1635.7	1621.1	1599.7	1576.0	1557.4	1538.3	1524.1	1516.8	1508.6	1501.7	1509.9
5°	1653.0	1625.6	1580.1	1535.5	1502.7	1473.5	1452.6	1441.7	1431.6	1424.8	1425.7
7.5°	1681.3	1637.1	1560.5	1495.4	1449.9	1418.5	1397.0	1389.8	1383.3	1381.5	1383.8
10°	1711.3	1646.1	1534.5	1448.0	1396.1	1370.1	1360.6	1365.6	1370.1	1374.2	1378.8
12.5°	1745.4	1654.3	1496.8	1392.5	1348.3	1338.3	1347.9	1369.7	1385.6	1395.2	1401.1
15°	1790.2	1661.7	1453.0	1336.9	1307.2	1318.7	1351.0	1388.8	1416.6	1434.4	1437.1
17.5°	1831.1	1661.2	1397.0	1280.9	1274.1	1307.2	1356.1	1409.3	1446.7	1471.8	1476.7
20°	1873.4	1648.9	1331.9	1226.2	1240.4	1294.9	1358.3	1422.6	1467.7	1496.8	1503.6
22.5°	1913.1	1627.5	1260.4	1176.5	1212.1	1278.5	1349.6	1414.7	1459.9	1483.6	1490.8
25°	1939.9	1590.2	1187.9	1134.6	1187.1	1258.5	1321.4	1373.8	1407.5	1419.3	1421.2
27.5°	1953.6	1541.4	1119.6	1098.2	1161.1	1225.7	1269.0	1294.9	1304.5	1303.6	1301.8
30°	1955.5	1477.2	1060.8	1068.6	1131.0	1177.5	1198.0	1192.9	1180.6	1159.7	1161.5
32.5°	1949.5	1404.8	1011.7	1040.4	1092.7	1118.7	1119.6	1095.5	1062.7	1029.5	1020.3
35°	1951.4	1333.7	968.4	1008.5	1046.3	1057.7	1047.2	1011.7	967.0	924.2	915.1
37.5°	1971.4	1271.7	931.1	971.6	994.8	997.5	982.5	945.1	912.4	870.4	866.8
40°	2019.2	1227.6	895.5	930.2	943.4	944.7	923.3	896.9	899.6	877.3	876.9
42.5°	2105.3	1208.4	864.1	886.8	895.0	897.8	881.4	864.6	888.2	873.6	868.7
45°	2216.4	1213.0	837.6	844.5	859.5	872.3	862.2	841.7	850.9	787.5	766.6
47.5°	2344.9	1242.1	816.7	808.0	834.0	858.1	842.7	811.7	779.3	716.5	704.6
50°	2495.2	1287.2	797.6	772.1	806.3	839.0	823.6	779.3	730.6	700.1	696.0
52.5°	2651.9	1342.4	778.5	732.5	771.1	824.4	816.7	772.1	712.0	681.9	676.4
55°	2829.6	1398.0	754.3	686.5	733.3	817.6	813.5	745.6	697.8	681.0	676.9
57.5°	3050.4	1461.2	722.4	638.6	697.8	793.0	780.3	729.7	683.3	670.5	669.1
60°	3338.4	1554.7	676.4	587.6	654.6	755.2	752.5	706.5	660.0	650.9	649.1
62.5°	3770.2	1709.0	613.1	536.6	606.3	691.0	716.1	675.1	635.4	634.9	635.9
65°	4439.8	1941.3	544.3	492.0	557.5	636.8	673.7	642.7	610.3	619.5	620.9
67.5°	5215.9	2134.0	477.0	448.2	507.9	585.3	635.4	610.3	577.1	600.8	601.2
70°	5474.2	1961.8	417.7	404.9	456.4	535.6	594.0	574.9	541.1	564.8	562.6
72°	5094.4	1583.8	379.4	372.2	417.7	494.7	557.1	541.6	508.3	524.3	518.3
72.5°	4974.6	1509.9	369.8	364.0	407.2	484.2	547.5	533.4	500.1	513.8	508.3
75°	4437.5	1311.3	317.9	319.3	355.3	433.2	493.7	489.2	455.1	456.4	454.6
77.5°	3218.6	961.5	267.8	276.9	302.5	380.8	439.6	436.8	399.4	392.6	391.2
80°	1493.6	490.6	218.2	222.3	248.7	318.4	374.9	371.2	341.1	332.5	327.5
82.5°	511.5	233.3	164.0	166.7	192.6	256.5	325.2	323.0	297.9	281.0	270.5
85°	182.7	116.2	114.8	112.1	137.6	201.8	283.3	271.0	234.1	199.5	198.6
87.5°	59.2	49.7	59.2	58.8	80.2	136.7	205.9	175.4	169.9	141.2	138.4
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)