

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: P318526

Luminaire Tested: **GLEON-SA2C-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10641 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

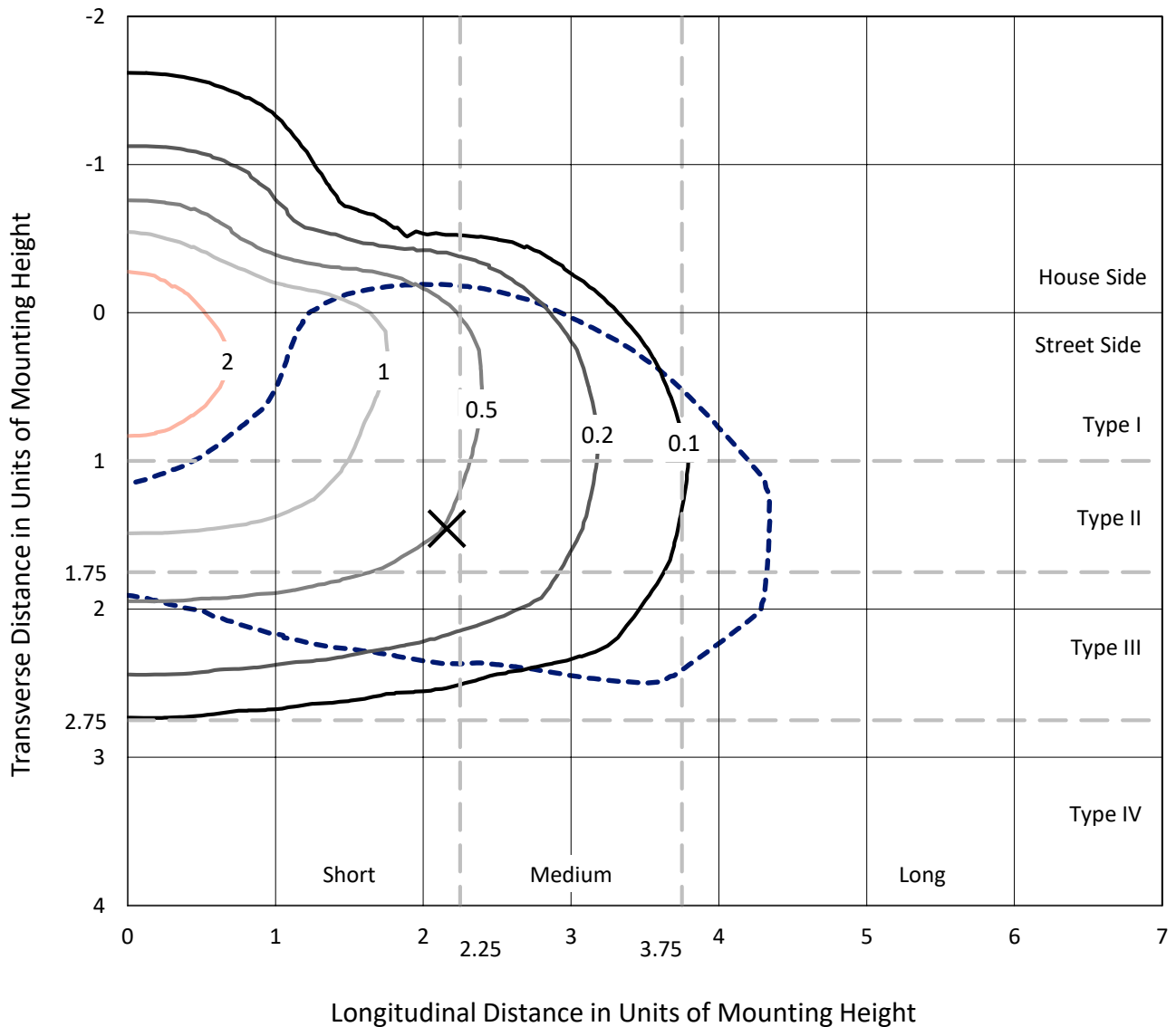
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

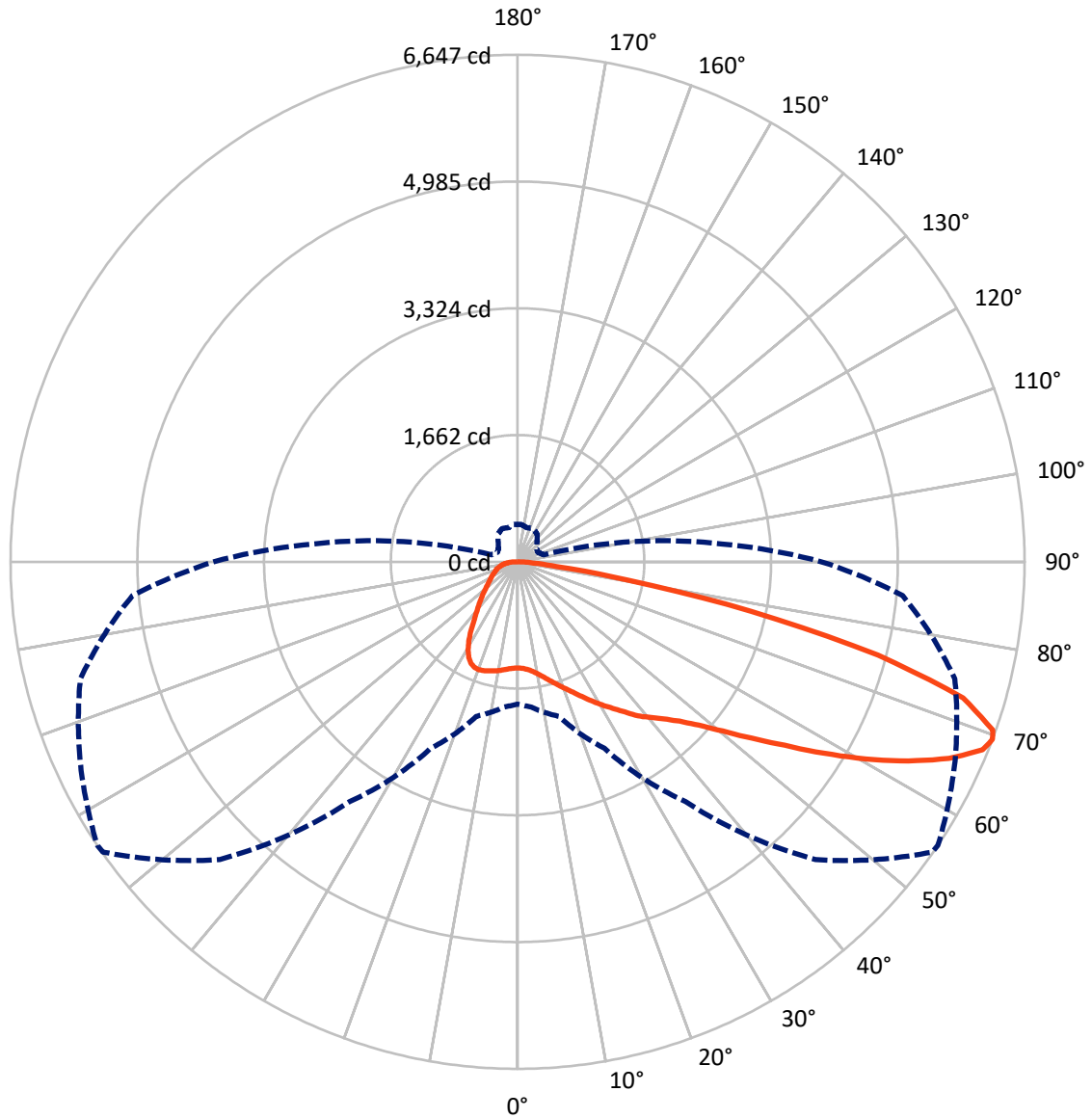
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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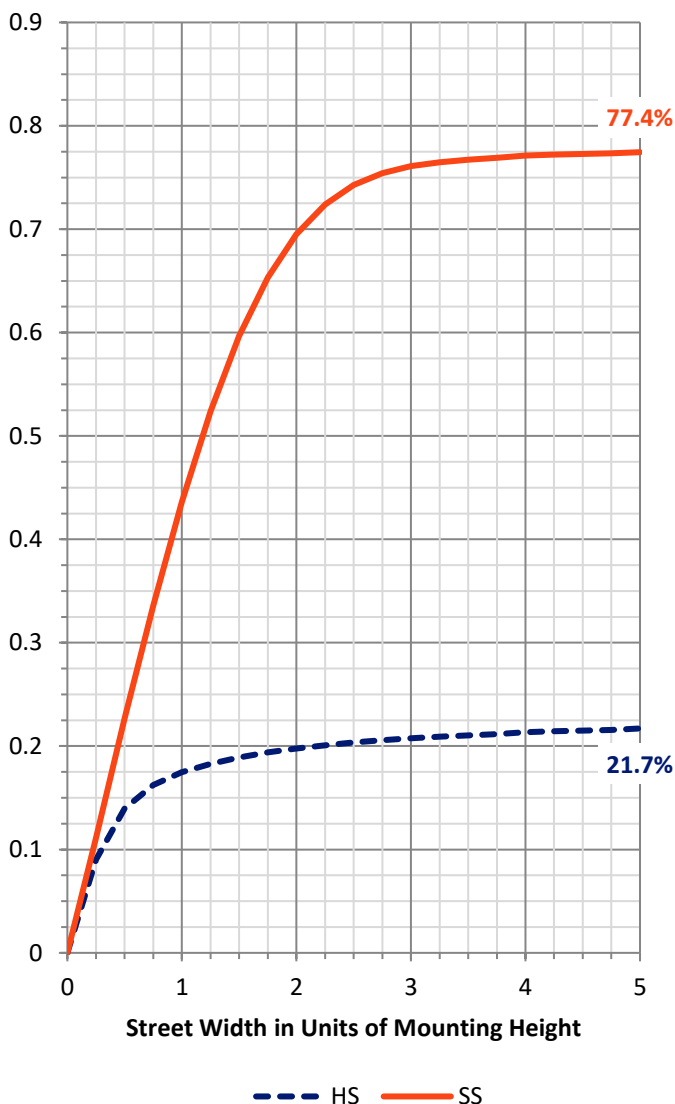
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2369.7	0.0	2369.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	8271.3	0.0	8271.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	10641.0	0.0	10641.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.6	1.3
10°-20°	439.4	4.1
20°-30°	766.9	7.2
30°-40°	1101.7	10.4
40°-50°	1524.7	14.3
50°-60°	2233.9	21.0
60°-70°	2723.5	25.6
70°-80°	1505.7	14.2
80°-90°	208.5	2.0
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°	10641.0	100.0
0°-180°	10641.0	100.0



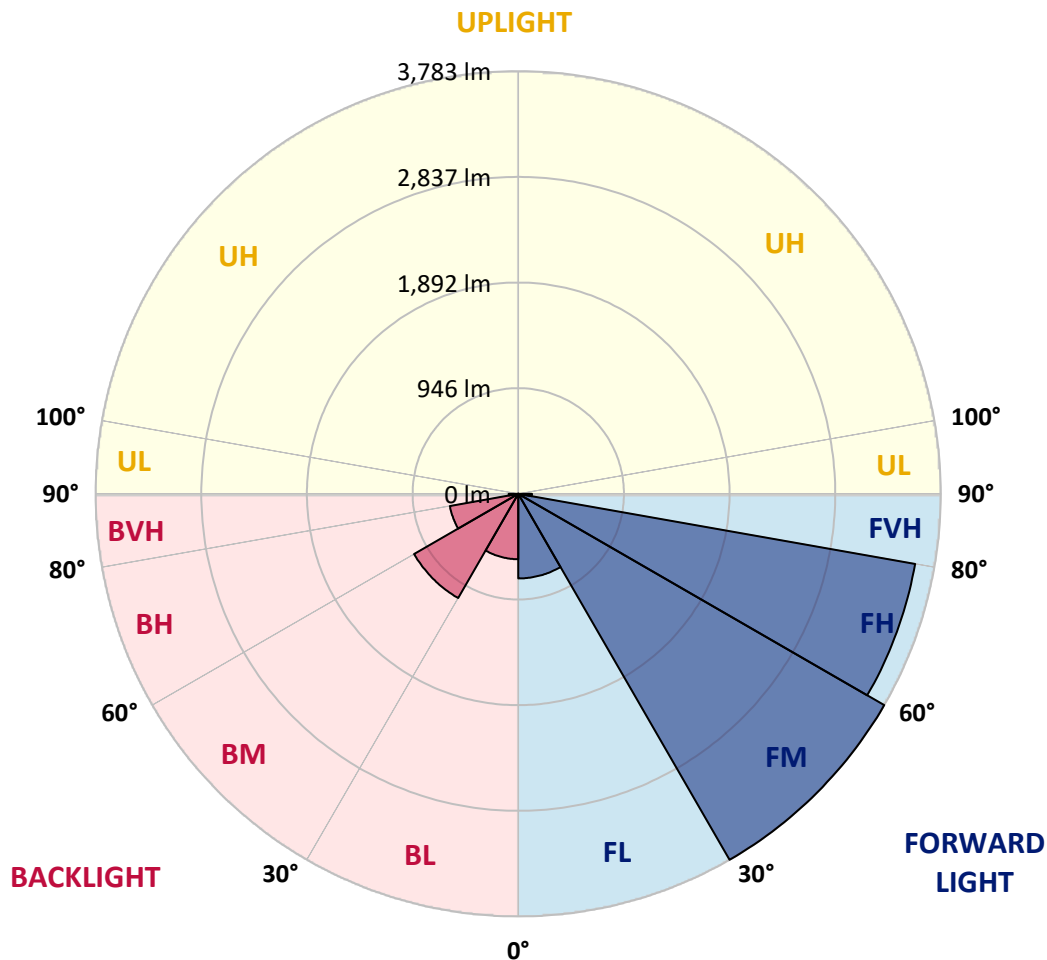
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.3	7.1			
FM (30°-60°)	3783.3	35.6			
FH (60°-80°)	3607.8	33.9			G2/5000
FVH (80°-90°)	122.8	1.2			G2/225
BL (0°-30°)	585.6	5.5	B2/1000		
BM (30°-60°)	1077.0	10.1	B2/2500		
BH (60°-80°)	621.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	85.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2
2.5°	1399.9	1401.4	1400.3	1403.2	1399.9	1402.1	1400.3	1400.3	1399.2	1395.9	1392.3
5°	1421.9	1424.9	1423.0	1426.0	1421.9	1422.7	1419.4	1419.4	1416.1	1409.1	1401.8
7.5°	1456.4	1459.7	1458.2	1461.2	1455.7	1455.7	1451.3	1450.9	1444.3	1432.9	1424.5
10°	1497.5	1501.9	1500.4	1504.8	1500.4	1501.9	1497.5	1497.5	1488.7	1472.5	1461.9
12.5°	1557.2	1562.7	1558.7	1558.3	1556.5	1559.4	1555.7	1555.0	1546.9	1525.0	1510.3
15°	1637.1	1643.0	1634.6	1633.8	1623.6	1622.5	1622.5	1621.4	1616.2	1589.8	1565.6
17.5°	1729.1	1731.0	1723.6	1711.9	1698.7	1690.3	1689.2	1692.1	1692.1	1661.3	1622.8
20°	1819.3	1822.6	1816.7	1803.5	1786.7	1774.2	1765.4	1771.3	1770.9	1734.3	1679.6
22.5°	1917.6	1925.2	1916.5	1899.6	1879.8	1865.9	1850.5	1855.6	1856.0	1810.9	1735.4
25°	2044.8	2037.8	2032.3	2008.5	1980.2	1965.9	1951.6	1956.8	1955.3	1893.4	1792.9
27.5°	2157.3	2158.8	2151.4	2126.1	2093.5	2062.0	2061.2	2064.5	2059.0	1979.1	1847.2
30°	2288.2	2288.9	2278.6	2255.9	2220.3	2179.7	2170.1	2175.6	2163.9	2060.5	1904.4
32.5°	2418.3	2422.0	2410.6	2383.1	2354.5	2305.0	2286.0	2289.6	2260.3	2143.7	1963.4
35°	2532.3	2537.4	2533.8	2515.4	2484.3	2441.8	2419.0	2416.8	2380.5	2245.6	2041.5
37.5°	2648.5	2653.3	2649.2	2633.8	2621.4	2576.3	2564.2	2564.2	2501.1	2349.7	2140.8
40°	2768.0	2775.3	2770.6	2749.3	2738.7	2718.2	2689.2	2682.2	2614.0	2474.7	2302.8
42.5°	2879.1	2888.6	2907.7	2895.2	2873.6	2876.5	2818.2	2814.6	2764.7	2659.5	2506.3
45°	3036.7	3050.6	3082.9	3073.4	3069.0	3052.8	2983.6	2980.3	2961.2	2908.0	2758.8
47.5°	3208.6	3227.7	3286.0	3287.8	3335.1	3304.7	3210.5	3199.1	3203.5	3205.7	3067.1
50°	3367.0	3387.9	3483.6	3528.6	3640.1	3646.7	3496.0	3485.8	3503.0	3553.6	3426.4
52.5°	3493.5	3519.8	3639.4	3778.7	3969.6	4023.9	3847.6	3839.9	3852.7	3939.9	3832.5
55°	3586.2	3614.8	3744.9	3998.6	4303.6	4399.3	4252.3	4244.9	4253.0	4364.1	4274.3
57.5°	3607.8	3614.8	3803.6	4146.7	4585.5	4815.3	4747.5	4732.8	4693.3	4790.0	4761.8
60°	3506.3	3534.1	3755.2	4198.7	4803.6	5225.5	5265.1	5246.8	5135.7	5214.9	5192.2
62.5°	3300.3	3350.1	3574.5	4119.6	4889.0	5560.6	5772.8	5750.8	5559.5	5610.8	5501.6
65°	2963.8	2985.0	3220.7	3846.5	4780.5	5775.0	6225.5	6214.5	5973.7	5893.4	5558.7
67.5°	2361.8	2401.8	2601.9	3275.7	4336.6	5749.7	6575.6	6574.5	6244.2	5998.3	5356.0
69°	1865.9	1907.3	2097.9	2698.4	3837.3	5518.4	6634.3	6647.1	6320.5	5934.5	5066.4
70°	1487.6	1535.6	1666.4	2272.8	3394.1	5213.4	6585.5	6608.6	6305.8	5829.3	4799.2
72.5°	633.1	671.9	765.0	1171.6	2068.6	3893.0	6021.4	6108.6	5966.0	5335.1	3966.3
75°	276.4	288.5	330.7	477.6	918.3	2118.8	4717.1	4878.4	5101.3	4509.6	2954.6
77.5°	202.3	207.5	230.6	280.4	412.0	800.2	3033.4	3127.2	3678.9	3281.6	1812.3
80°	156.5	160.2	178.2	206.0	269.1	323.7	1383.5	1464.1	2068.6	1685.5	754.8
82.5°	124.6	127.2	139.7	151.8	185.9	196.1	459.3	509.5	763.6	465.5	199.8
85°	115.8	118.8	123.2	110.7	119.1	115.1	198.7	207.8	230.6	182.9	83.6
87.5°	52.4	62.0	122.1	86.1	63.4	50.6	81.4	85.0	95.7	96.0	37.0
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°	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2
2.5°	1394.4	1393.4	1395.2	1390.8	1396.3	1395.9	1394.1	1394.8	1398.5	1398.1	1398.5
5°	1402.9	1402.1	1404.3	1401.0	1407.6	1409.8	1410.2	1413.5	1417.5	1418.6	1418.6
7.5°	1424.1	1424.1	1425.2	1420.8	1425.2	1424.9	1423.0	1426.3	1430.4	1430.7	1430.4
10°	1460.8	1461.2	1459.3	1448.0	1444.3	1434.4	1425.2	1425.6	1430.7	1434.8	1435.9
12.5°	1507.0	1505.5	1497.5	1476.6	1461.2	1441.0	1431.5	1431.1	1436.2	1439.5	1440.6
15°	1559.8	1555.7	1534.8	1500.8	1473.6	1453.8	1438.4	1434.8	1431.8	1428.2	1428.5
17.5°	1609.6	1600.5	1565.6	1518.4	1489.8	1463.4	1433.7	1409.8	1393.4	1383.8	1380.9
20°	1660.2	1642.3	1592.0	1534.8	1498.6	1450.5	1393.4	1345.0	1314.9	1301.0	1298.4
22.5°	1706.4	1677.4	1616.6	1552.1	1491.6	1407.3	1317.5	1247.1	1205.3	1186.6	1188.1
25°	1751.5	1711.2	1642.3	1564.2	1456.4	1331.0	1211.9	1125.4	1077.0	1056.1	1055.4
27.5°	1791.1	1745.3	1670.1	1554.3	1390.8	1222.5	1086.9	1002.6	962.3	944.3	941.4
30°	1836.5	1788.2	1707.1	1516.5	1294.7	1097.2	964.8	905.4	876.8	858.9	855.6
32.5°	1891.9	1846.4	1737.6	1448.0	1171.9	966.3	869.5	828.1	802.1	781.9	778.2
35°	1972.5	1923.4	1745.3	1349.7	1037.0	862.9	799.5	757.0	721.8	695.8	693.2
37.5°	2073.7	2019.8	1727.7	1222.5	906.2	795.8	741.2	688.8	643.0	606.3	600.4
40°	2219.6	2138.2	1678.9	1075.9	809.8	744.1	684.4	624.6	567.8	524.9	516.5
42.5°	2394.8	2277.2	1604.1	930.0	739.0	691.7	627.9	553.9	499.6	469.2	464.8
45°	2617.7	2421.6	1500.4	802.4	669.4	639.3	567.1	498.9	465.2	442.8	439.2
47.5°	2872.1	2583.6	1391.5	698.7	610.3	590.2	518.3	474.3	447.6	430.0	426.7
50°	3184.8	2766.5	1276.0	613.6	551.0	531.2	495.2	460.8	439.5	426.0	422.7
52.5°	3537.4	2972.9	1192.8	546.6	501.8	487.5	483.1	453.5	436.2	426.0	422.7
55°	3917.2	3183.0	1103.0	490.1	459.3	463.4	475.1	454.2	442.5	430.0	425.2
57.5°	4297.4	3400.0	1002.9	442.5	425.6	445.4	469.6	455.7	445.8	433.7	429.3
60°	4597.9	3537.4	847.9	402.5	398.8	425.6	456.4	444.7	431.8	432.2	431.5
62.5°	4738.3	3530.1	676.7	366.9	372.1	398.8	435.1	427.4	416.8	431.1	432.2
65°	4659.5	3354.2	526.8	334.7	343.5	371.0	413.1	419.0	422.7	450.2	453.8
67.5°	4328.9	3011.8	408.0	306.5	317.5	351.9	415.3	456.4	461.2	490.1	489.7
69°	3986.9	2690.7	354.5	291.8	304.6	356.7	443.9	480.2	462.3	493.0	488.6
70°	3700.2	2436.6	325.9	281.9	298.8	365.1	463.0	479.8	456.8	483.1	475.8
72.5°	2849.8	1753.0	276.4	263.6	279.0	349.3	468.5	469.2	443.9	449.1	436.6
75°	1954.6	1107.8	241.2	238.6	248.9	314.9	450.9	448.3	410.6	403.2	393.0
77.5°	1077.7	562.7	204.9	214.8	221.8	279.0	409.8	406.2	375.0	359.6	355.9
80°	415.7	246.3	173.0	191.0	195.4	241.6	359.2	355.9	329.9	310.1	304.6
82.5°	156.9	129.0	143.0	165.3	163.9	199.4	304.3	302.4	277.1	248.2	239.4
85°	72.6	77.3	113.3	136.4	125.7	147.7	243.4	246.7	215.9	181.5	181.5
87.5°	30.8	43.3	80.3	103.0	84.7	99.7	178.5	170.5	156.5	108.5	101.9
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)