

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: P646782

Luminaire Tested: **GALN-SA2C-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9105.5 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

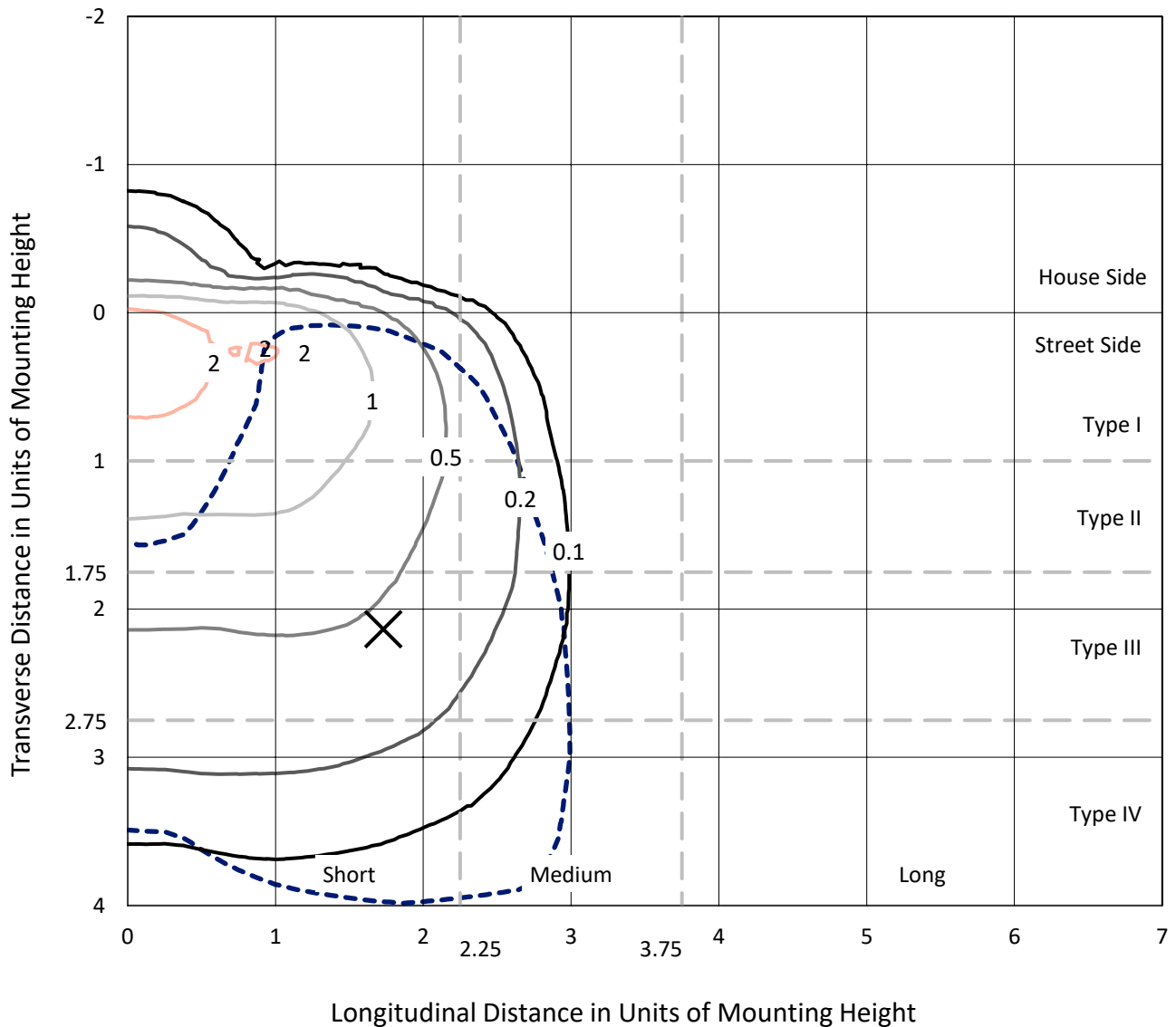
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

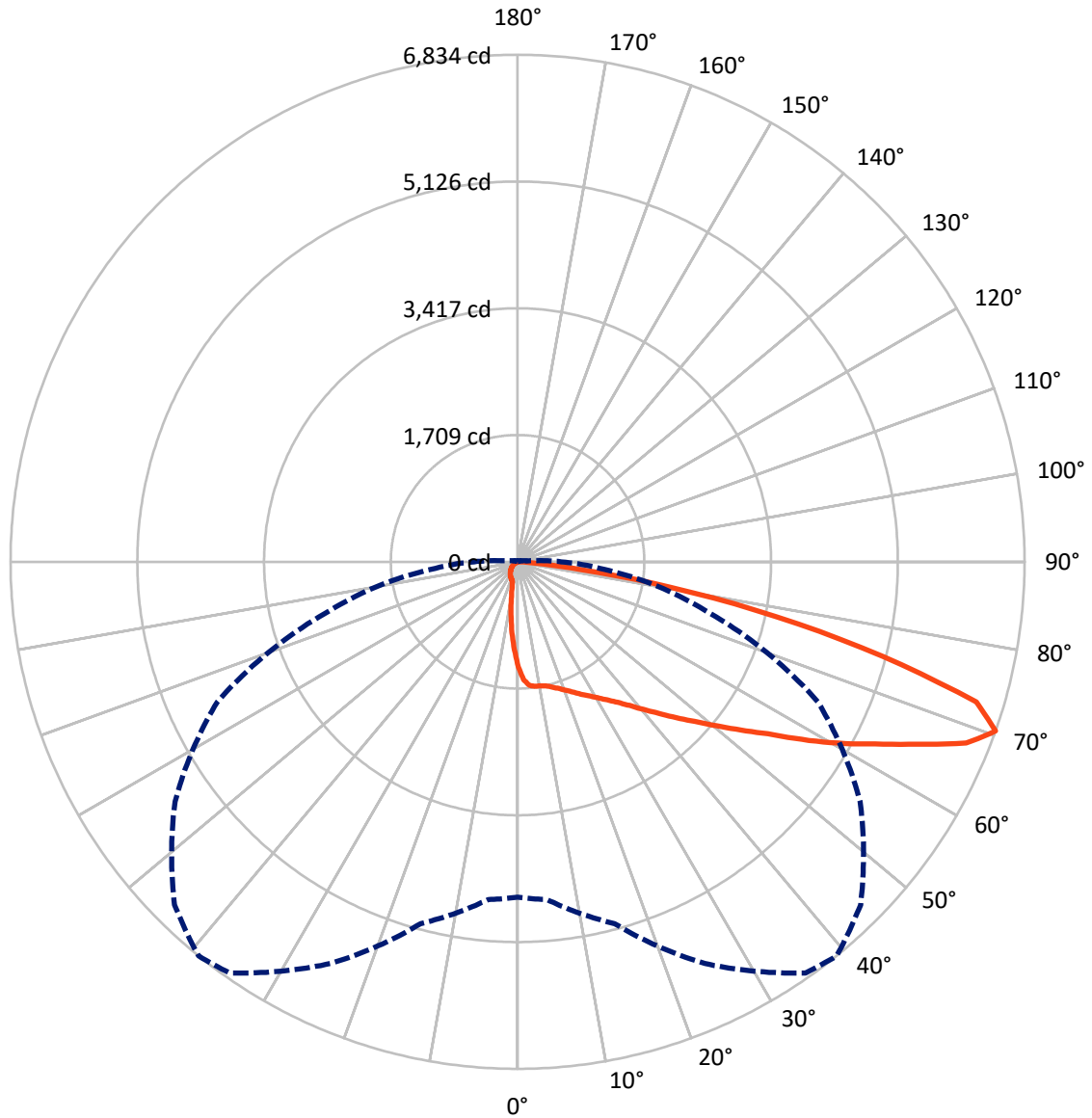
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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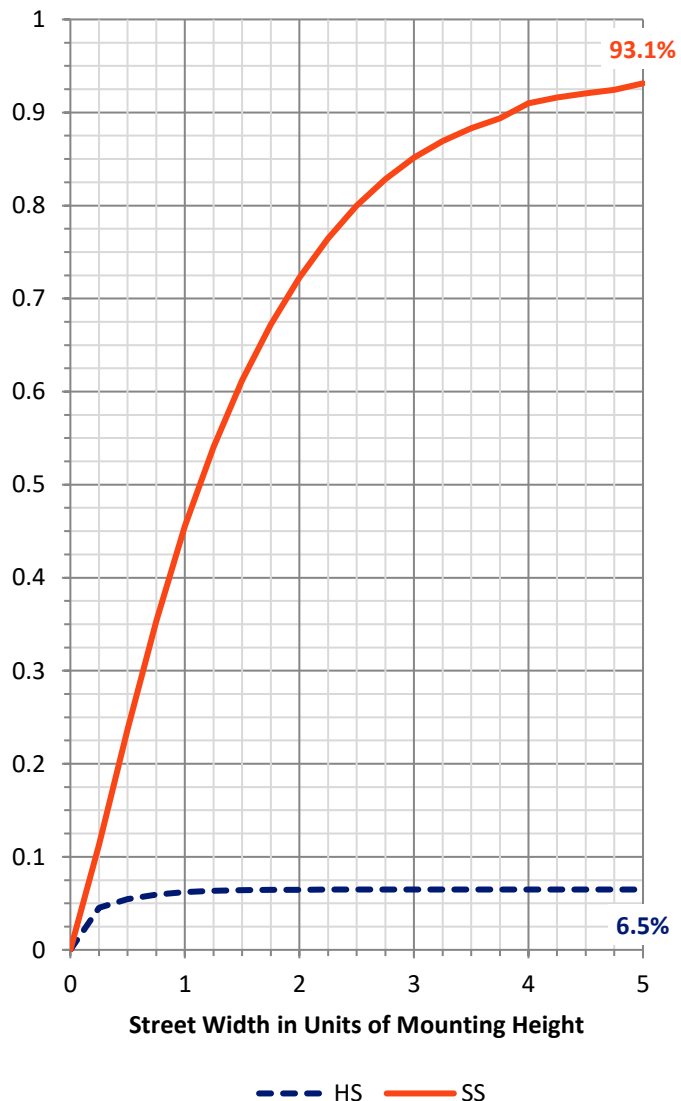
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	593.7	0.0	593.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	8511.8	0.0	8511.8
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	9105.5	0.0	9105.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	1.3
10°-20°	314.9	3.5
20°-30°	527.6	5.8
30°-40°	818.2	9.0
40°-50°	1296.6	14.2
50°-60°	1900.6	20.9
60°-70°	2436.1	26.8
70°-80°	1530.8	16.8
80°-90°	159.5	1.8
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°	9105.5	100.0
0°-180°	9105.5	100.0

**Coefficient of Utilization**

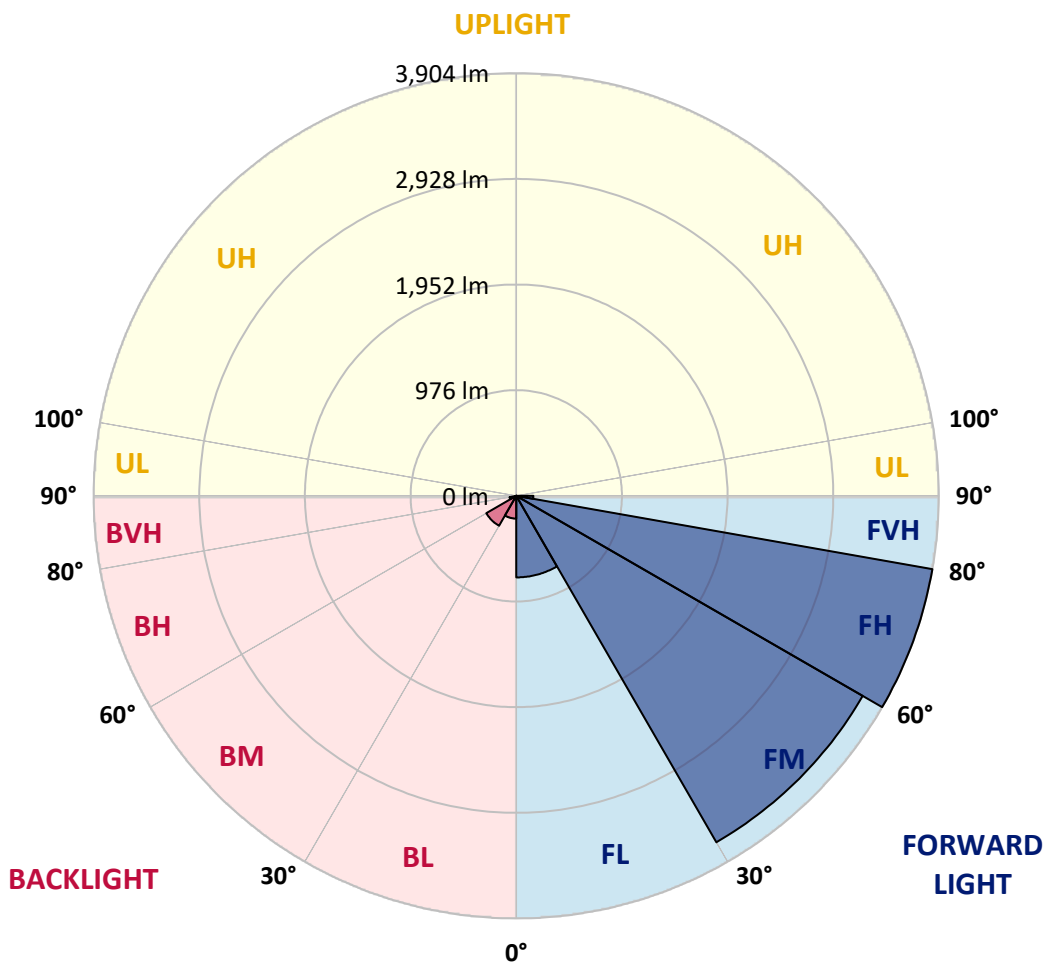


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.4	8.3			
FM (30°-60°)	3695.9	40.6			
FH (60°-80°)	3904.1	42.9			G2/5000
FVH (80°-90°)	158.3	1.7			G2/225
BL (0°-30°)	210.2	2.3	B1/500		
BM (30°-60°)	319.5	3.5	B1/1000		
BH (60°-80°)	62.8	0.7	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1641.6	1636.2	1628.8	1620.3	1595.8	1591.4	1576.8	1545.6	1508.3	1477.7	1435.5
5°	1719.4	1722.4	1716.9	1701.6	1683.8	1673.5	1655.1	1606.8	1558.4	1496.6	1427.5
7.5°	1737.1	1743.2	1736.5	1721.8	1704.7	1693.6	1679.0	1637.4	1581.1	1510.7	1415.9
10°	1735.3	1742.6	1738.3	1724.9	1710.8	1700.4	1684.5	1651.4	1606.2	1532.1	1419.6
12.5°	1732.2	1742.0	1741.4	1734.7	1723.1	1715.1	1705.3	1675.9	1633.7	1563.3	1439.7
15°	1723.6	1735.9	1746.9	1752.4	1753.0	1753.0	1740.8	1709.6	1669.2	1604.4	1466.1
17.5°	1727.3	1741.4	1769.0	1784.8	1795.9	1794.6	1781.8	1748.1	1703.5	1646.6	1493.6
20°	1749.9	1769.0	1807.5	1839.3	1850.3	1846.6	1829.5	1790.3	1739.6	1682.7	1520.5
22.5°	1805.7	1822.7	1871.1	1908.4	1916.4	1906.6	1882.1	1828.9	1783.0	1721.8	1552.9
25°	1888.8	1909.0	1953.7	1981.9	1981.9	1976.4	1942.1	1879.7	1832.0	1776.2	1595.1
27.5°	1989.8	2007.0	2051.0	2076.1	2061.4	2045.5	2011.2	1936.0	1890.1	1844.8	1645.9
30°	2092.0	2103.0	2149.5	2160.5	2145.3	2125.1	2088.3	2013.1	1972.7	1937.8	1719.4
32.5°	2188.6	2212.5	2251.0	2248.6	2227.9	2218.0	2184.4	2104.2	2081.6	2077.9	1822.2
35°	2285.3	2303.7	2338.0	2346.6	2328.2	2326.4	2301.9	2242.5	2243.1	2267.0	1982.5
37.5°	2368.6	2385.1	2425.5	2444.4	2448.1	2457.3	2447.5	2408.4	2464.0	2529.5	2194.8
40°	2438.3	2461.6	2513.0	2546.0	2584.0	2617.6	2619.4	2628.0	2740.0	2852.5	2472.0
42.5°	2492.8	2525.2	2599.9	2661.0	2747.9	2790.8	2825.0	2872.1	3060.6	3228.9	2798.7
45°	2563.8	2601.0	2694.1	2790.1	2926.0	2996.4	3044.1	3170.1	3437.5	3666.9	3134.0
47.5°	2681.2	2700.8	2795.6	2935.8	3114.5	3214.8	3307.8	3498.7	3841.9	4047.6	3413.0
50°	2832.3	2845.2	2916.8	3111.4	3342.7	3474.8	3644.3	3868.9	4261.7	4363.3	3570.9
52.5°	2999.4	3003.7	3057.5	3304.7	3598.4	3764.9	3954.5	4231.7	4603.7	4588.5	3675.6
55°	3193.4	3187.3	3233.2	3514.6	3901.3	4091.6	4312.5	4603.1	4900.5	4748.1	3735.5
57.5°	3415.4	3398.9	3443.6	3793.0	4289.3	4516.9	4741.4	4923.7	5130.5	4882.2	3764.3
60°	3648.0	3615.0	3668.2	4105.7	4746.3	4962.3	5148.9	5197.9	5372.9	4988.6	3714.7
62.5°	3833.4	3834.0	3933.1	4438.5	5216.2	5405.3	5504.4	5548.5	5581.5	4965.4	3454.0
65°	4122.8	4132.6	4291.1	4900.5	5760.2	5924.2	5992.1	5848.9	5590.7	4676.5	3062.4
67.5°	4421.4	4452.6	4742.6	5536.8	6388.6	6520.7	6433.2	5907.0	5341.1	4017.6	2322.1
70°	4518.7	4570.1	5047.9	5974.9	6765.5	6834.0	6537.9	5636.0	4464.8	2686.2	1168.7
72.5°	4140.6	4223.7	4872.4	5815.3	6525.1	6465.7	5849.5	4726.7	2838.5	1020.0	356.7
75°	2919.9	2956.6	4049.4	4824.0	5248.1	5079.8	4449.6	3047.1	1167.5	286.3	122.4
77.5°	1507.7	1489.9	2408.4	3200.7	3742.8	3568.4	2913.8	1577.4	442.4	119.3	75.9
80°	779.6	792.4	1042.0	1677.1	2284.7	2102.4	1553.6	731.2	235.6	66.1	58.1
82.5°	436.9	410.0	599.0	732.4	1068.3	837.7	595.9	517.6	102.8	39.8	55.0
85°	79.6	83.2	328.5	395.9	370.8	235.6	192.1	345.7	30.0	22.0	38.5
87.5°	1.3	1.3	63.7	113.8	72.2	33.0	60.6	49.6	6.1	8.5	6.7
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°	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1414.0	1390.8	1347.3	1304.5	1250.1	1205.4	1175.4	1144.2	1112.4	1114.8	1122.2
5°	1389.6	1349.2	1263.5	1172.9	1086.1	1007.7	930.7	861.5	833.3	807.7	808.9
7.5°	1365.1	1308.2	1182.7	1040.8	909.2	775.9	679.2	599.6	557.4	525.6	516.4
10°	1354.0	1278.8	1108.7	913.5	726.9	581.3	457.0	392.2	342.0	326.1	330.4
12.5°	1359.0	1264.2	1042.0	798.5	576.4	405.0	318.2	285.2	274.1	272.2	271.1
15°	1368.1	1253.7	976.6	671.2	423.4	301.1	267.4	261.3	260.0	258.9	259.4
17.5°	1380.4	1244.6	906.8	551.9	324.9	263.1	253.3	250.2	249.6	249.6	249.6
20°	1392.6	1234.2	829.1	445.4	271.1	248.4	242.3	240.5	239.8	239.8	239.2
22.5°	1406.7	1225.0	750.2	350.0	249.6	238.0	232.6	231.3	230.7	230.0	230.0
25°	1426.9	1213.3	666.3	286.3	236.2	228.2	222.7	221.5	220.9	218.5	219.1
27.5°	1453.8	1204.8	580.0	247.2	223.9	216.0	212.3	210.5	209.3	207.4	208.0
30°	1490.5	1197.4	488.3	225.8	209.8	203.1	199.5	198.3	197.0	195.2	195.2
32.5°	1554.2	1200.5	391.6	208.7	197.0	189.1	185.4	184.2	183.0	181.1	181.1
35°	1649.6	1218.3	313.3	193.9	181.7	173.7	170.1	170.1	168.3	165.8	165.2
37.5°	1805.7	1263.5	251.5	179.9	167.0	159.7	155.4	154.2	152.4	148.7	148.1
40°	1989.8	1333.9	211.7	165.8	153.5	146.3	142.6	138.9	134.0	130.3	129.7
42.5°	2221.1	1406.1	183.5	151.7	140.7	134.0	129.7	123.6	116.3	111.3	110.7
45°	2462.1	1472.2	164.6	138.9	128.5	123.0	118.1	108.3	99.1	93.0	92.4
47.5°	2642.1	1484.4	149.3	126.7	118.1	112.6	105.9	93.6	81.4	75.9	74.1
50°	2727.1	1425.1	133.4	114.4	107.7	101.6	93.0	78.9	65.5	58.7	57.6
52.5°	2757.1	1322.3	120.5	103.4	97.3	90.0	79.6	63.7	51.4	44.6	44.1
55°	2744.9	1192.5	108.9	93.0	85.0	76.5	66.1	50.8	37.9	32.4	31.2
57.5°	2680.6	1027.4	97.3	82.6	72.8	64.3	52.6	37.9	25.7	20.8	20.2
60°	2507.5	802.2	85.7	70.9	61.8	52.6	41.6	26.9	15.9	11.6	11.6
62.5°	2215.0	595.3	74.6	59.4	52.0	42.2	29.4	17.1	8.5	6.1	5.5
65°	1850.9	439.3	62.4	50.2	43.5	33.0	20.8	10.4	4.3	1.8	1.3
67.5°	1291.6	271.1	52.0	41.0	35.5	23.9	12.8	4.3	1.8	0.0	0.0
70°	586.8	129.1	39.8	31.2	26.9	17.1	6.7	2.4	1.3	0.0	0.0
72.5°	182.4	67.9	28.1	22.6	18.3	11.0	3.7	1.8	1.3	0.0	0.0
75°	84.4	43.5	17.8	12.2	10.4	5.5	2.4	1.3	0.6	0.0	0.0
77.5°	63.0	33.7	10.4	6.7	5.5	3.7	1.8	1.3	0.6	0.0	0.0
80°	55.0	17.1	6.1	4.3	3.1	2.4	1.3	0.6	0.0	0.0	0.0
82.5°	49.6	8.5	3.7	2.4	1.8	1.3	0.6	0.6	0.0	0.0	0.0
85°	26.9	4.9	2.4	1.8	1.3	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	4.9	2.4	1.8	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0
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)