

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: P647353

Luminaire Tested: **GALN-SA3D-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13275.8 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

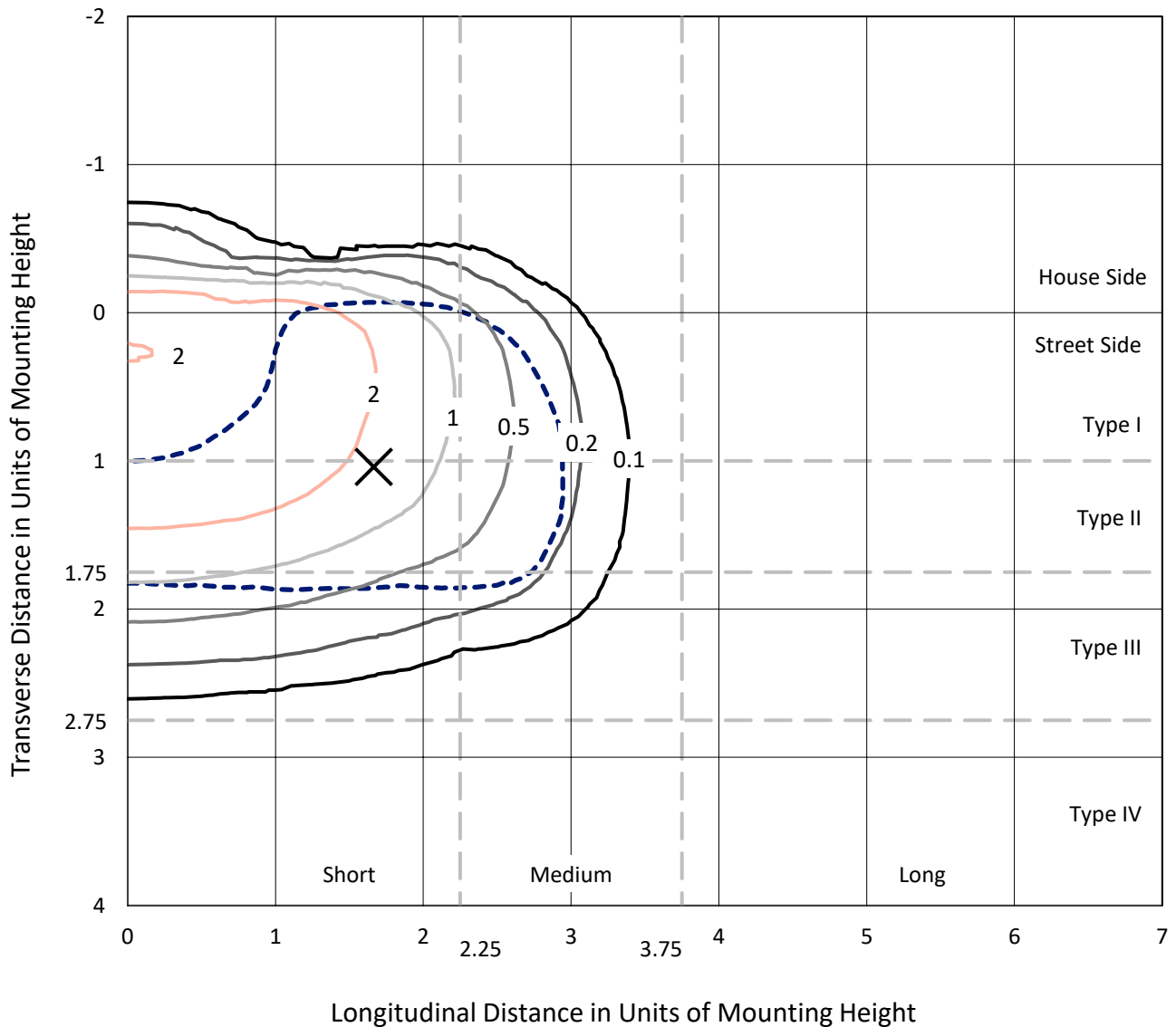
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

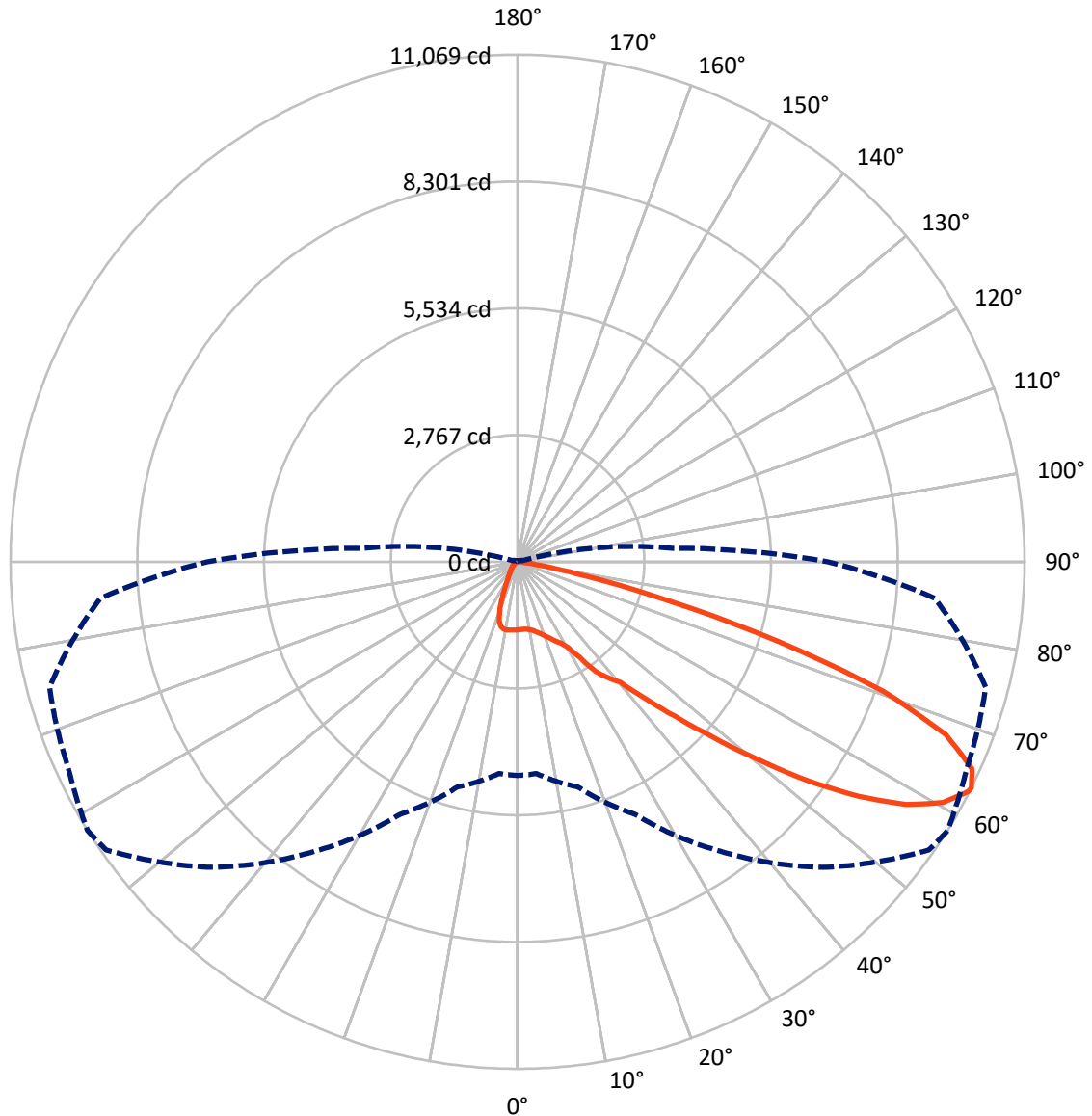
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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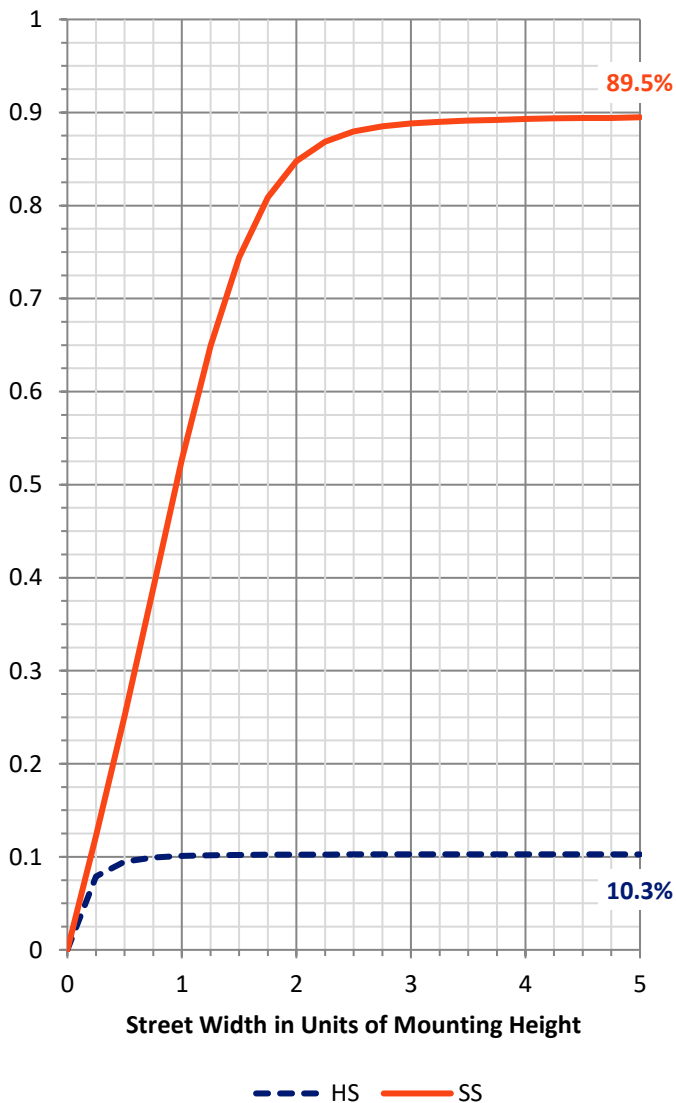
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1374.6	0.0	1374.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	11901.2	0.0	11901.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	13275.8	0.0	13275.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	1.0
10°-20°	379.0	2.9
20°-30°	657.7	5.0
30°-40°	1208.6	9.1
40°-50°	2275.1	17.1
50°-60°	3891.5	29.3
60°-70°	3726.1	28.1
70°-80°	950.2	7.2
80°-90°	48.6	0.4
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°	13275.8	100.0
0°-180°	13275.8	100.0

**Coefficient of Utilization**



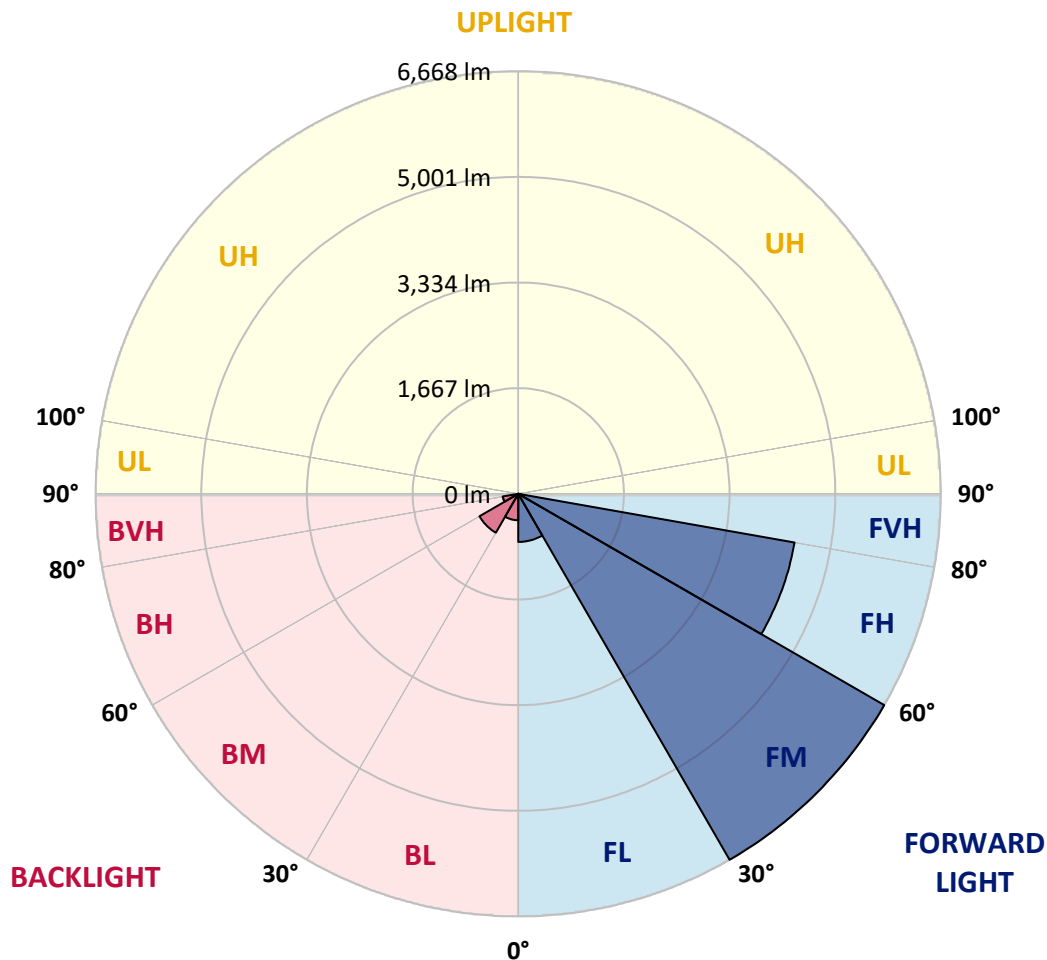
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.9	5.7			
FM (30°-60°)	6668.2	50.2			
FH (60°-80°)	4427.4	33.3			G2/5000
FVH (80°-90°)	46.7	0.4			G1/100
BL (0°-30°)	416.9	3.1	B1/500		
BM (30°-60°)	707.0	5.3	B1/1000		
BH (60°-80°)	248.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3
2.5°	1449.3	1454.3	1459.3	1461.3	1468.3	1475.3	1480.3	1479.2	1487.3	1491.3	1491.3
5°	1391.3	1391.3	1404.3	1416.3	1436.3	1456.3	1475.3	1479.2	1494.3	1508.3	1513.2
7.5°	1342.4	1345.4	1355.4	1377.3	1404.3	1439.3	1477.3	1486.3	1512.3	1543.2	1556.2
10°	1319.4	1321.4	1334.3	1357.3	1391.3	1439.3	1492.2	1509.2	1549.2	1598.2	1616.2
12.5°	1314.3	1317.3	1330.3	1356.3	1395.3	1453.3	1525.3	1543.2	1601.2	1664.2	1691.2
15°	1323.3	1325.4	1338.4	1366.3	1409.3	1478.3	1569.2	1594.2	1663.2	1736.1	1771.1
17.5°	1355.4	1353.3	1362.3	1385.3	1433.3	1509.2	1622.2	1652.2	1733.2	1833.1	1856.1
20°	1491.3	1478.3	1470.3	1450.3	1469.3	1553.2	1686.2	1730.1	1830.1	1932.1	1948.0
22.5°	1784.1	1755.2	1698.2	1620.2	1560.2	1613.2	1763.2	1814.1	1943.0	2043.0	2043.0
25°	2156.9	2120.0	2063.0	1893.1	1746.2	1712.2	1850.1	1914.0	2066.0	2167.0	2134.0
27.5°	2623.8	2594.7	2483.8	2285.9	2061.0	1885.1	1951.1	2010.0	2174.9	2296.9	2227.9
30°	3003.5	2989.6	2898.6	2721.7	2473.8	2216.9	2138.9	2177.9	2319.9	2460.8	2389.8
32.5°	3324.4	3324.4	3231.4	3066.5	2834.6	2606.8	2457.8	2485.8	2621.7	2784.7	2652.7
35°	3677.2	3665.2	3590.2	3433.3	3173.4	2972.6	2911.6	2949.6	3072.5	3193.5	2868.6
37.5°	4048.0	4044.0	3966.1	3814.1	3602.3	3349.4	3206.5	3216.4	3279.4	3353.4	3121.5
40°	4450.8	4456.8	4354.9	4260.9	4061.0	3802.2	3528.3	3465.3	3524.3	3733.2	3588.3
42.5°	4926.6	4912.6	4868.6	4740.7	4579.8	4424.8	4096.0	4073.0	4125.0	4348.9	4191.9
45°	5479.4	5499.3	5423.4	5352.4	5244.5	5115.5	4840.7	4800.7	4857.7	5205.5	4982.5
47.5°	6033.0	6014.1	6063.0	6050.0	6108.0	6012.0	5769.1	5687.2	5824.2	6154.0	5826.1
50°	6454.8	6475.8	6577.7	6726.7	6975.6	7029.5	6796.7	6768.7	6829.6	7041.5	6580.8
52.5°	6728.7	6798.7	6958.6	7341.4	7790.2	8139.1	7962.1	7947.1	7922.2	7979.1	7302.4
55°	6907.6	6978.6	7187.5	7751.2	8523.8	9090.6	9099.6	9035.6	8870.7	8829.7	7977.1
57.5°	6797.7	6811.6	7109.6	7863.1	8930.7	9769.3	10063.1	9999.1	9694.2	9539.4	8572.8
60°	6110.0	6139.0	6553.8	7439.4	8753.7	9991.1	10701.7	10672.8	10339.0	10164.0	9036.6
62.5°	4891.6	4975.6	5402.4	6389.9	7931.1	9617.3	10960.7	11042.6	10782.7	10541.8	9182.5
63°	4667.7	4640.8	5091.5	6084.0	7713.3	9432.4	10964.7	11068.6	10802.7	10577.9	9142.5
65°	3455.3	3536.3	3829.1	4797.7	6418.9	8571.8	10717.8	10901.6	10728.7	10418.9	8699.8
67.5°	1940.0	1936.0	2259.9	3139.4	4492.8	6723.7	9691.3	10080.1	10044.1	9349.4	7211.5
70°	949.5	964.5	1097.5	1627.2	2605.7	4638.7	8053.1	8472.8	8485.8	7343.4	4986.5
72.5°	429.8	436.8	531.7	792.6	1339.3	2469.8	5549.3	5950.1	5876.1	4679.7	2753.7
75°	226.9	241.9	292.8	398.8	645.7	1018.5	3018.5	3406.4	3251.4	2138.0	1013.5
77.5°	168.0	172.9	198.9	253.8	345.9	396.8	1302.4	1549.2	1451.3	773.6	335.8
80°	122.9	126.9	147.9	179.9	217.9	201.9	490.8	562.7	504.7	262.9	103.0
82.5°	74.9	76.0	108.0	134.0	136.9	112.9	161.9	173.9	181.9	147.9	56.0
85°	27.0	34.0	73.0	96.9	81.0	57.0	68.0	74.9	82.0	94.0	33.0
87.5°	3.0	4.0	35.0	47.0	23.0	21.0	25.0	28.0	30.0	35.0	16.0
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°	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3
2.5°	1495.3	1499.3	1496.2	1491.3	1490.3	1487.3	1481.3	1481.3	1481.3	1483.2	1481.3
5°	1517.2	1520.3	1513.2	1503.3	1492.2	1478.3	1463.3	1454.3	1453.3	1451.3	1446.3
7.5°	1559.3	1563.3	1547.2	1523.2	1493.3	1459.3	1427.3	1397.3	1383.3	1372.4	1372.4
10°	1620.2	1624.2	1592.2	1549.2	1489.3	1420.3	1344.3	1275.4	1221.4	1196.4	1190.4
12.5°	1693.2	1695.2	1642.2	1567.3	1468.3	1335.3	1173.4	1022.5	917.5	869.6	864.6
15°	1773.1	1759.2	1689.2	1574.2	1408.3	1160.4	880.6	695.7	586.7	554.8	566.7
17.5°	1854.1	1828.1	1725.2	1563.3	1273.4	880.6	591.7	474.7	440.8	431.8	431.8
20°	1930.1	1894.1	1751.2	1515.3	1039.5	606.7	438.8	410.8	404.8	398.8	399.8
22.5°	2006.0	1951.1	1774.1	1408.3	774.6	433.8	392.8	383.8	375.8	367.9	366.8
25°	2080.0	2004.0	1783.1	1210.4	527.7	372.8	358.8	346.9	330.8	321.8	319.9
27.5°	2156.9	2068.0	1777.1	960.5	384.8	333.9	319.9	302.9	283.8	267.9	267.9
30°	2304.8	2189.9	1756.1	690.7	323.8	293.9	275.9	248.9	227.9	211.9	210.9
32.5°	2506.8	2348.8	1684.2	485.8	287.8	258.9	231.9	201.9	179.9	168.0	168.0
35°	2686.7	2508.8	1549.2	357.8	258.9	224.9	191.9	162.9	146.0	138.0	134.9
37.5°	2960.5	2742.7	1363.4	290.9	230.9	194.9	160.9	134.0	120.0	113.9	113.9
40°	3371.4	3028.5	1135.4	254.9	203.9	165.9	134.0	112.9	101.9	95.0	95.0
42.5°	3881.1	3378.3	904.5	228.9	178.9	142.9	112.0	95.9	86.0	81.0	79.9
45°	4522.8	3747.2	696.6	204.9	158.9	121.9	95.0	81.0	70.9	68.0	69.0
47.5°	5192.5	4072.0	539.7	183.9	138.0	103.0	81.0	70.0	63.0	59.0	59.0
50°	5764.2	4295.9	409.8	159.9	121.9	87.0	70.9	63.0	57.0	55.0	53.9
52.5°	6241.9	4360.8	313.8	138.9	107.0	74.9	63.0	57.0	52.0	48.9	48.9
55°	6648.8	4303.9	245.9	117.0	90.0	65.0	56.0	51.0	44.9	42.0	41.0
57.5°	6886.6	4121.0	187.9	96.9	73.0	53.9	48.9	43.0	36.0	31.0	31.0
60°	7006.6	3855.1	143.9	79.9	56.0	43.0	40.0	31.9	25.0	21.0	20.0
62.5°	6862.7	3502.3	108.9	63.0	42.0	31.9	27.0	23.0	16.0	12.0	12.0
63°	6773.7	3400.3	104.9	60.0	39.0	30.0	25.0	21.0	14.0	11.0	10.0
65°	6175.0	2955.6	86.0	48.0	31.0	21.0	17.0	15.0	10.0	5.0	4.0
67.5°	4903.6	2260.9	68.0	36.0	22.0	15.0	10.0	9.0	3.0	0.0	0.0
70°	3315.4	1460.3	53.0	26.0	15.0	9.0	5.0	4.0	1.0	0.0	0.0
72.5°	1729.2	748.6	41.0	19.0	9.0	6.0	3.0	1.0	0.0	0.0	0.0
75°	611.7	254.9	30.0	12.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0
77.5°	184.9	95.0	19.0	9.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	65.0	35.0	11.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.9	17.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	11.0	6.0	5.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	8.0	6.0	5.0	4.0	2.0	1.0	0.0	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)