

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: P382982

Luminaire Tested: **GLEON-SA3B-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA 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: 11843.7 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

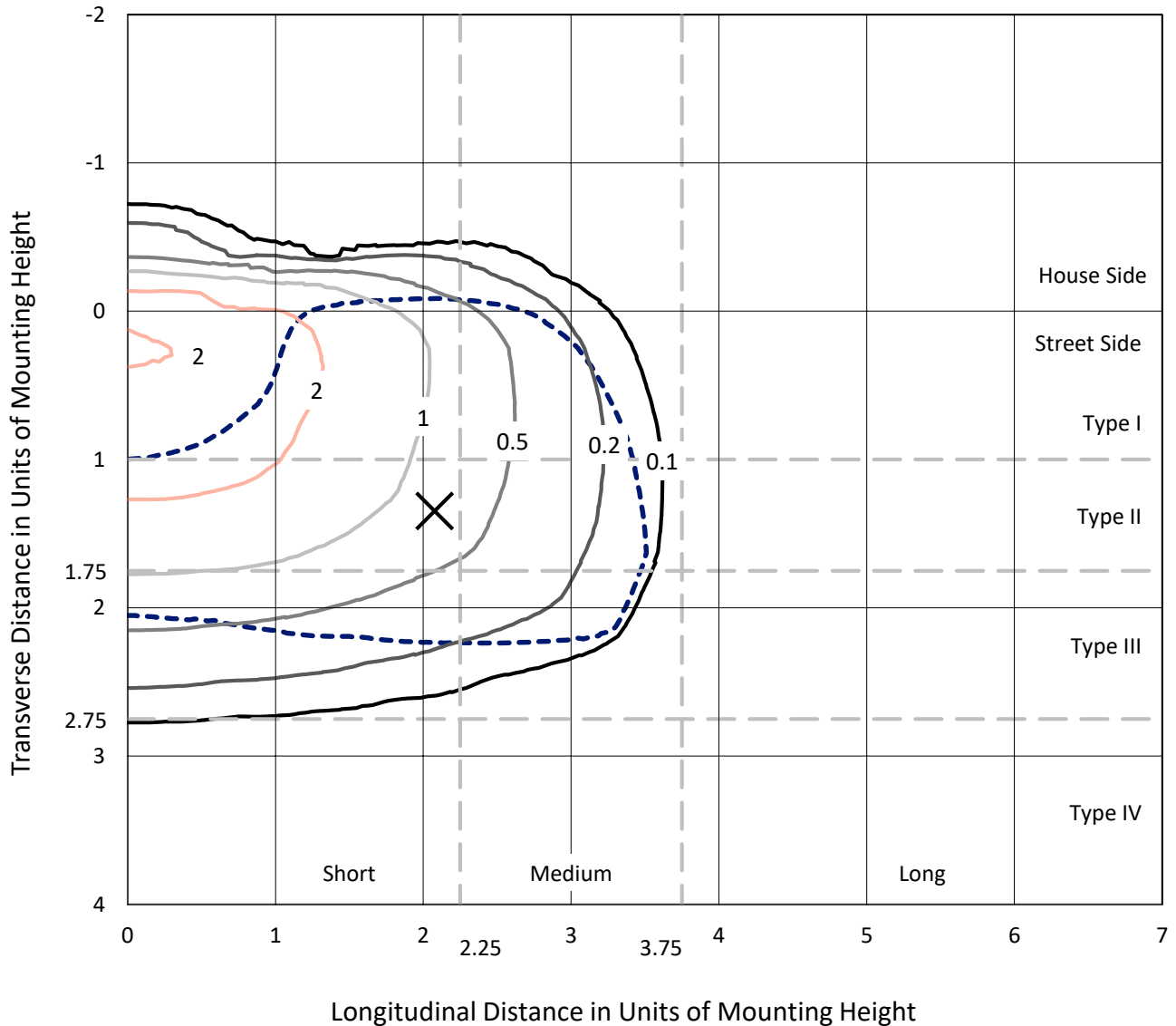
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

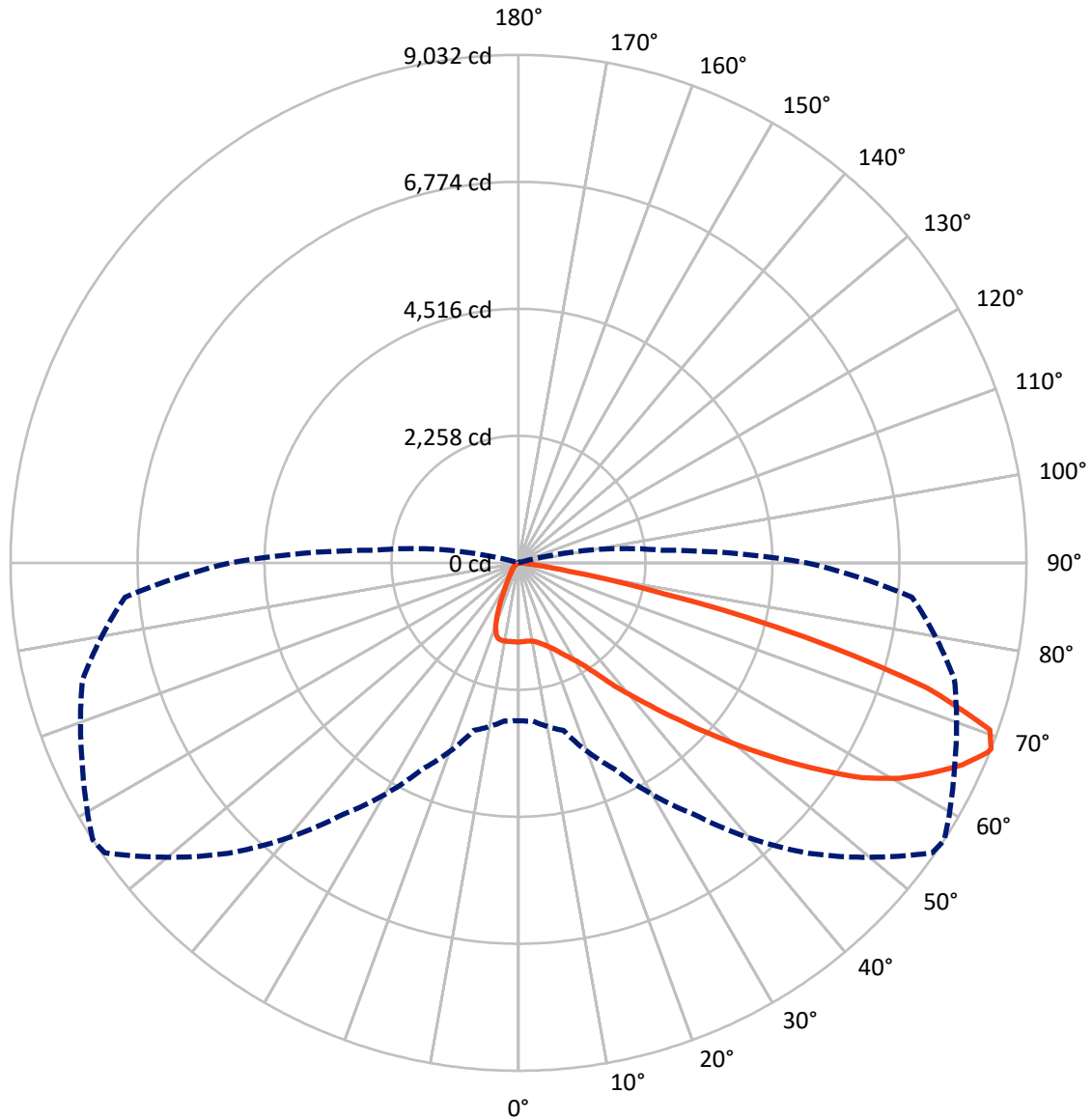
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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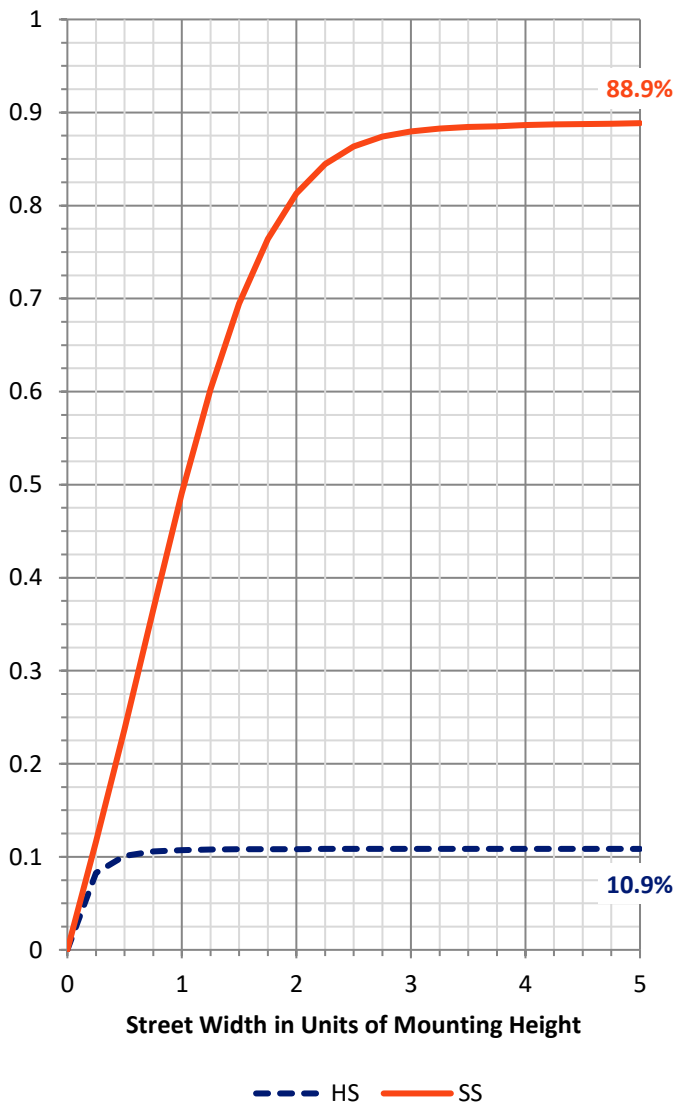
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.7	0.0	1298.7
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	10545.0	0.0	10545.0
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	11843.7	0.0	11843.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	1.1
10°-20°	365.0	3.1
20°-30°	629.6	5.3
30°-40°	1086.7	9.2
40°-50°	1858.8	15.7
50°-60°	2973.9	25.1
60°-70°	3436.0	29.0
70°-80°	1312.9	11.1
80°-90°	49.2	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°	11843.7	100.0
0°-180°	11843.7	100.0

**Coefficient of Utilization**

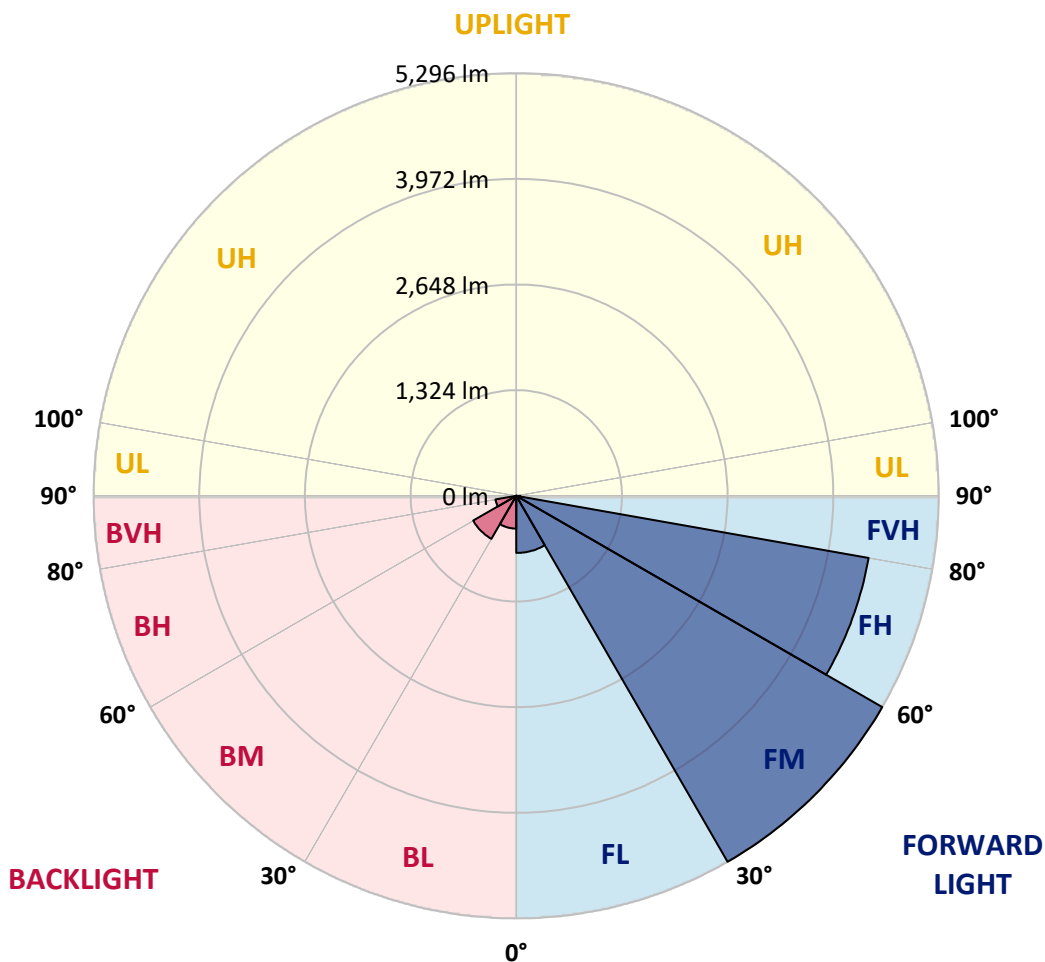


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.8	6.0			
FM (30°-60°)	5296.4	44.7			
FH (60°-80°)	4484.4	37.9			G2/5000
FVH (80°-90°)	48.3	0.4			G1/100
BL (0°-30°)	410.4	3.5	B1/500		
BM (30°-60°)	622.9	5.3	B1/1000		
BH (60°-80°)	264.5	2.2	B1/500		G1/500
BVH (80°-90°)	0.9	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°	57°	65°	75°	85°
0°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1374.3	1380.5	1384.9	1387.7	1391.1	1398.3	1400.6	1404.0	1405.7	1405.7	1409.6
5°	1320.0	1326.7	1336.2	1344.0	1359.8	1379.9	1394.4	1400.0	1410.2	1419.1	1424.1
7.5°	1269.6	1277.4	1288.6	1307.1	1334.0	1366.5	1396.7	1404.6	1424.1	1443.2	1452.7
10°	1237.1	1243.2	1257.8	1284.1	1319.4	1364.8	1407.4	1416.9	1450.4	1482.4	1500.4
12.5°	1225.9	1231.5	1246.6	1276.3	1320.0	1373.2	1432.0	1445.9	1495.2	1541.7	1567.0
15°	1242.1	1243.2	1259.5	1287.5	1330.6	1393.9	1472.9	1489.6	1551.9	1612.3	1643.7
17.5°	1304.8	1299.8	1308.3	1320.6	1354.7	1421.4	1516.0	1541.2	1624.1	1695.2	1724.9
20°	1461.7	1461.7	1442.6	1409.1	1409.6	1463.9	1574.2	1602.8	1704.2	1786.5	1813.4
22.5°	1729.9	1724.9	1686.8	1604.5	1528.9	1537.2	1645.4	1682.3	1800.5	1888.4	1897.4
25°	2052.5	2046.3	1987.5	1871.6	1740.6	1656.0	1741.7	1784.3	1915.3	1993.1	1974.7
27.5°	2394.1	2389.0	2330.8	2186.9	2000.4	1845.3	1856.5	1896.8	2032.4	2109.0	2050.2
30°	2725.1	2726.7	2669.1	2521.2	2310.1	2086.7	2002.1	2025.7	2146.0	2223.9	2139.9
32.5°	3039.8	3042.1	2992.2	2827.0	2629.9	2367.2	2203.7	2197.5	2278.2	2355.0	2258.5
35°	3320.4	3326.0	3291.8	3163.6	2954.7	2679.7	2465.2	2450.7	2465.8	2552.6	2440.6
37.5°	3590.8	3594.3	3568.5	3460.4	3285.7	3023.1	2795.7	2774.9	2742.5	2809.1	2680.8
40°	3887.2	3878.8	3849.1	3751.1	3601.0	3402.2	3150.7	3114.8	3058.3	3117.7	2996.7
42.5°	4162.7	4153.1	4158.1	4047.3	3920.7	3792.0	3564.6	3503.0	3469.9	3538.2	3384.2
45°	4507.1	4502.1	4518.8	4422.5	4320.1	4226.5	4038.9	3971.7	3957.1	4037.2	3853.0
47.5°	4847.0	4859.3	4911.4	4870.5	4829.1	4746.8	4541.2	4511.0	4520.0	4616.8	4347.4
50°	5130.4	5144.9	5287.7	5334.8	5394.7	5346.5	5140.5	5122.0	5157.2	5244.6	4879.5
52.5°	5335.3	5365.1	5542.6	5759.3	5977.7	6010.2	5804.7	5787.9	5835.5	5848.9	5290.5
55°	5477.6	5504.0	5705.0	6101.5	6546.2	6686.2	6558.5	6493.5	6484.5	6351.9	5722.9
57.5°	5502.8	5500.0	5789.0	6322.7	6991.9	7353.2	7272.5	7208.7	7025.0	6816.6	6218.5
60°	5360.6	5376.8	5712.2	6399.5	7271.9	7857.7	7863.8	7781.0	7494.9	7268.6	6699.0
62.5°	4922.6	4988.7	5327.5	6198.3	7268.6	8061.0	8297.3	8234.0	7891.9	7638.8	7186.2
65°	4212.6	4236.0	4559.2	5509.5	6777.4	7975.9	8687.7	8664.1	8249.7	7998.3	7436.5
67.5°	3076.2	3025.3	3364.7	4338.5	5738.1	7479.7	8967.7	8997.4	8525.8	8072.2	7170.0
68°	2807.4	2822.5	3086.9	4049.0	5465.9	7304.5	8986.2	9031.5	8553.3	8024.1	7024.4
70°	1673.3	1702.5	1938.3	2787.8	4158.1	6312.6	8786.8	8890.4	8389.7	7527.3	6075.7
72.5°	427.3	462.0	684.9	1247.7	2375.1	4447.7	7417.5	7592.9	7284.2	6106.5	4101.6
75°	175.9	184.8	244.7	411.1	884.9	2003.8	4889.0	5264.3	5049.7	3655.9	1853.7
77.5°	121.6	127.7	157.3	227.9	383.1	679.3	2396.9	2668.0	2403.7	1247.7	404.3
80°	87.4	92.4	112.5	151.7	220.1	242.5	781.2	903.3	717.4	273.9	100.2
82.5°	52.1	56.0	84.0	108.1	133.9	115.9	194.3	220.7	207.7	136.1	44.8
85°	25.8	30.3	56.5	77.3	72.3	48.7	59.3	66.0	81.8	82.9	24.1
87.5°	1.7	3.4	33.1	46.5	20.1	11.2	17.3	21.2	29.2	40.9	10.1
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°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1411.3	1411.9	1407.9	1406.3	1407.4	1400.6	1397.8	1398.9	1398.9	1400.6	1397.8
5°	1425.3	1425.3	1418.6	1409.6	1404.6	1391.6	1383.3	1381.0	1379.3	1378.2	1376.0
7.5°	1455.5	1452.2	1440.4	1420.8	1404.0	1376.0	1354.7	1343.5	1337.9	1335.7	1334.0
10°	1504.3	1498.0	1478.5	1442.0	1403.5	1353.5	1307.1	1274.1	1246.6	1235.4	1228.7
12.5°	1569.8	1560.8	1527.7	1467.3	1399.5	1307.6	1206.8	1109.9	1019.8	982.9	964.3
15°	1645.4	1632.4	1580.4	1488.5	1376.5	1204.0	985.1	815.4	690.6	643.5	623.3
17.5°	1722.1	1705.3	1626.3	1502.0	1307.6	989.6	691.1	521.9	438.5	416.1	408.3
20°	1799.4	1774.7	1666.1	1491.9	1152.0	713.5	455.9	381.4	357.3	350.5	348.3
22.5°	1872.7	1834.7	1701.9	1452.7	912.3	478.8	360.7	337.1	329.3	325.4	324.3
25°	1936.6	1883.4	1733.2	1331.7	645.7	361.8	324.8	317.0	306.9	299.6	300.1
27.5°	1996.5	1932.1	1752.3	1132.4	430.7	309.1	300.7	290.1	271.6	260.9	260.9
30°	2068.7	1997.1	1766.3	871.4	317.0	273.3	266.6	250.3	225.2	211.1	211.1
32.5°	2177.4	2095.6	1757.4	611.6	262.7	240.2	224.6	202.1	174.8	161.3	160.7
35°	2343.7	2247.9	1693.6	400.9	231.9	208.9	183.7	156.2	132.2	121.0	120.4
37.5°	2567.7	2451.8	1550.2	286.7	207.7	179.8	149.5	119.3	101.4	94.1	93.5
40°	2858.4	2688.7	1345.2	232.4	185.4	151.7	115.3	92.4	80.1	74.5	75.1
42.5°	3207.2	2942.4	1099.3	200.5	163.5	124.9	90.2	72.8	64.9	61.0	59.9
45°	3594.8	3192.7	841.7	178.7	141.7	100.8	70.5	57.7	51.5	49.3	49.3
47.5°	4021.0	3436.3	616.0	159.6	118.1	77.9	56.5	47.0	42.0	40.3	39.8
50°	4408.0	3605.5	444.1	139.5	96.9	61.6	45.9	39.2	35.9	33.6	33.6
52.5°	4730.5	3658.7	327.1	117.6	78.4	49.3	38.1	33.6	30.3	28.6	28.6
55°	5014.4	3636.8	243.0	96.9	63.3	40.3	32.5	28.6	25.8	24.1	24.1
57.5°	5286.6	3566.2	181.5	79.0	51.0	32.5	27.5	24.1	21.2	20.1	20.1
60°	5509.0	3448.6	135.0	63.8	40.9	26.4	22.9	19.6	17.3	15.6	15.6
62.5°	5689.3	3318.7	99.1	52.6	32.5	20.7	17.9	16.2	12.9	11.2	11.2
65°	5690.5	3103.1	74.5	43.7	25.2	16.2	13.4	12.9	8.4	6.7	6.1
67.5°	5278.8	2675.2	57.1	37.5	19.6	12.3	10.1	10.6	4.5	2.8	2.2
68°	5129.3	2566.6	53.8	37.0	18.4	11.7	9.5	10.6	3.9	2.2	1.7
70°	4324.5	2041.9	43.1	35.9	16.2	8.9	7.8	10.6	3.4	1.7	1.1
72.5°	2766.0	1185.0	32.0	28.6	12.3	6.7	5.0	9.5	3.4	1.1	0.6
75°	1177.2	367.4	21.8	20.1	7.3	5.0	3.4	6.1	2.2	0.6	0.0
77.5°	248.1	82.9	12.9	12.3	5.0	3.4	2.2	1.7	0.6	0.0	0.0
80°	63.8	24.1	6.7	6.1	2.8	1.7	1.1	0.0	0.0	0.0	0.0
82.5°	20.1	9.5	3.9	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	5.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	1.7	0.6	0.0	0.0	0.0	0.0	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)