

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: P527960

Luminaire Tested: **GALN-SA3A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10853 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

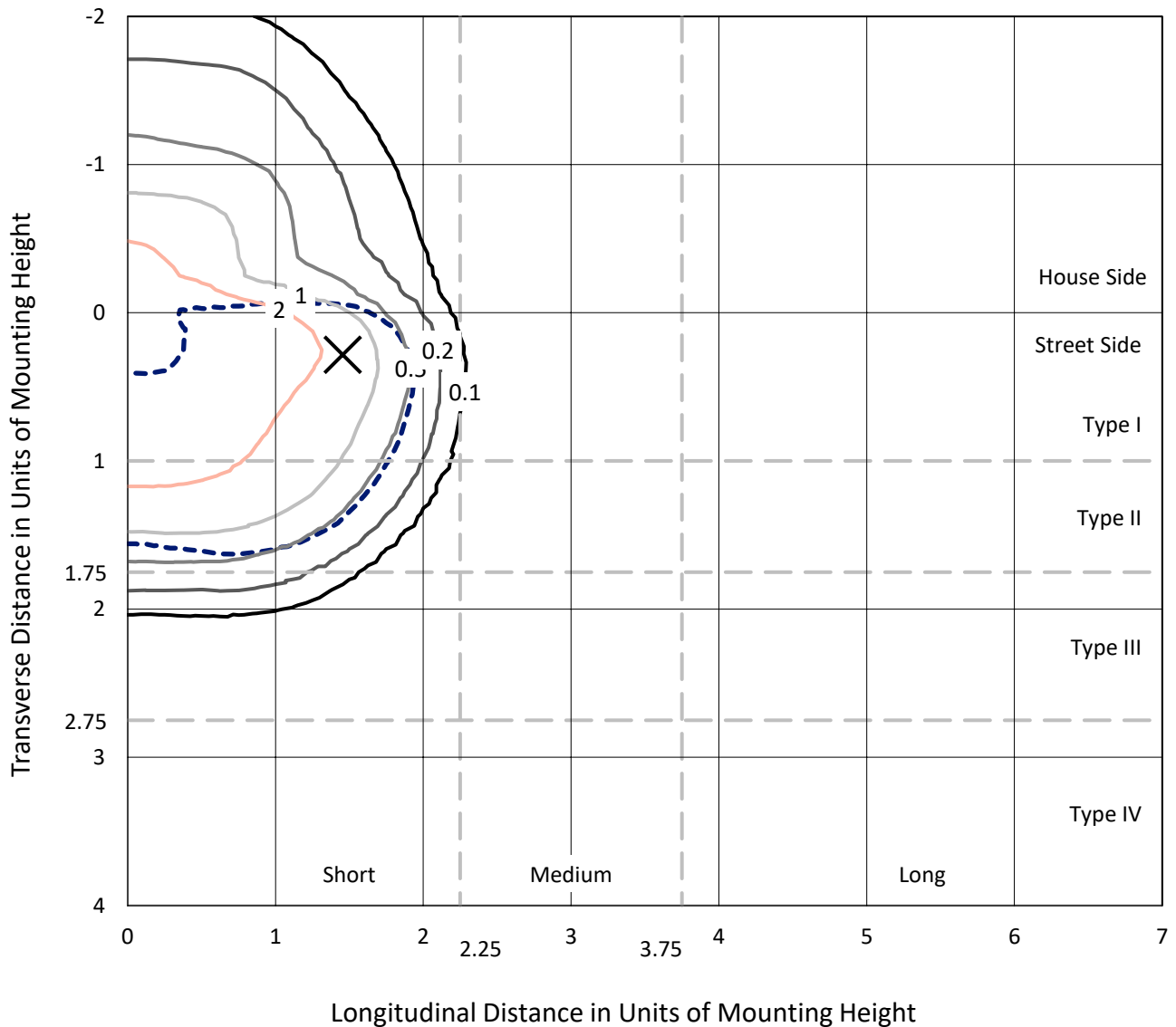
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

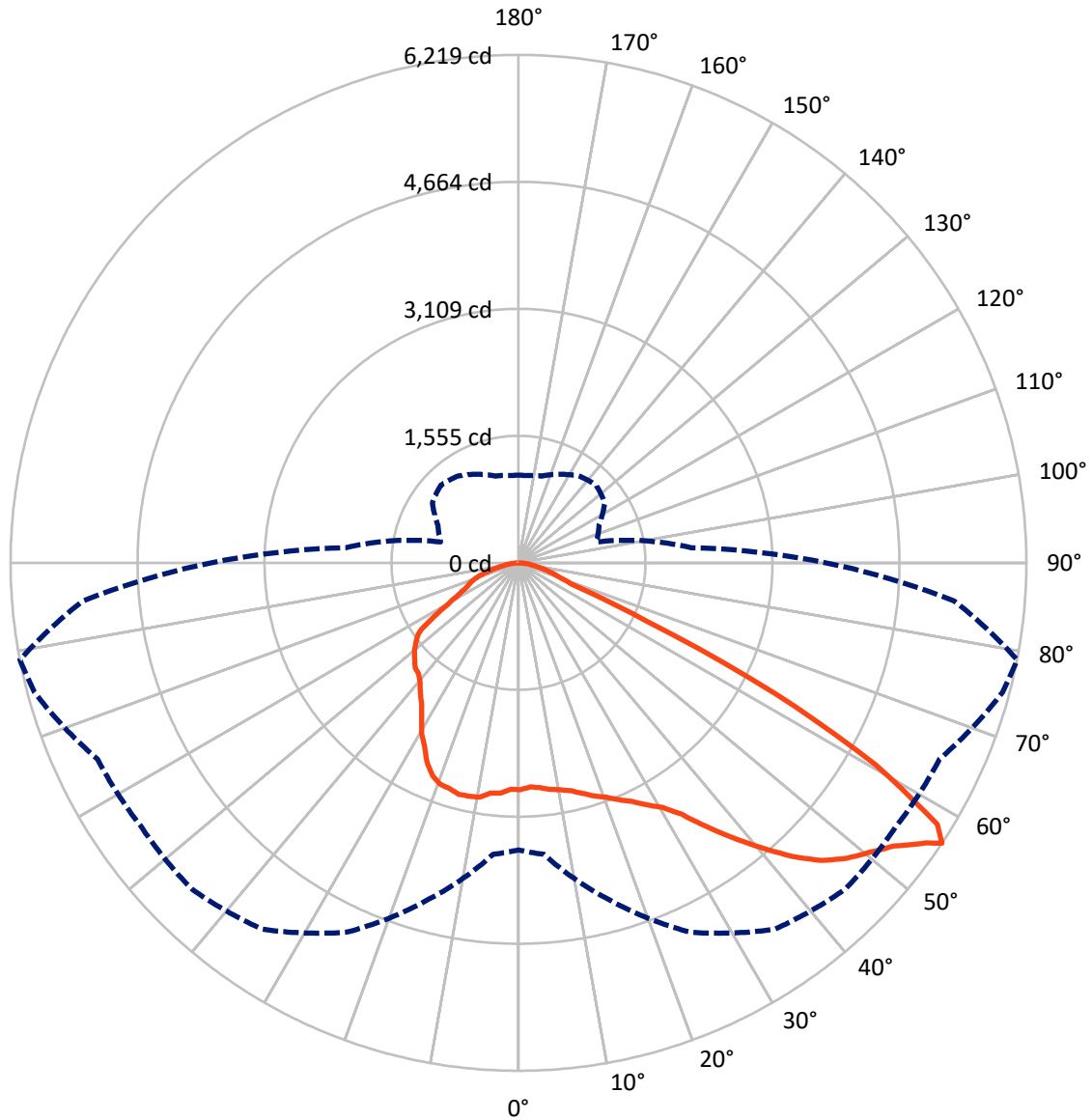
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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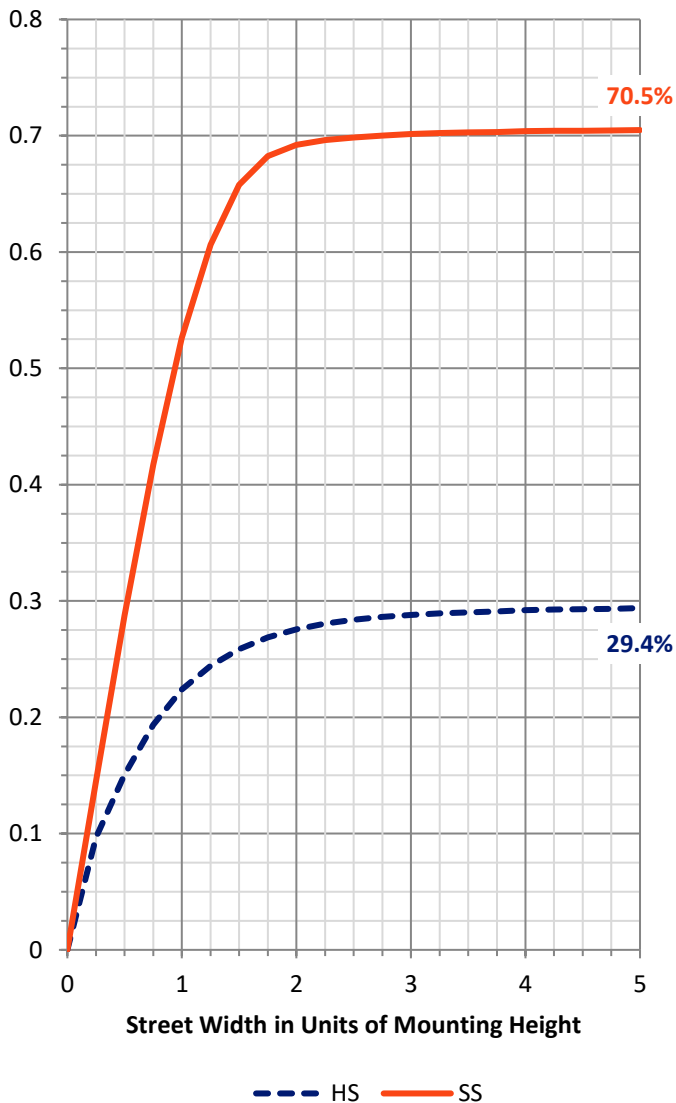
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3205.1	0.0	3205.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	7647.9	0.0	7647.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	10853.0	0.0	10853.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.5	2.3
10°-20°	690.9	6.4
20°-30°	1182.1	10.9
30°-40°	1811.7	16.7
40°-50°	2448.4	22.6
50°-60°	2812.1	25.9
60°-70°	1281.8	11.8
70°-80°	316.0	2.9
80°-90°	57.4	0.5
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°	10853.0	100.0
0°-180°	10853.0	100.0

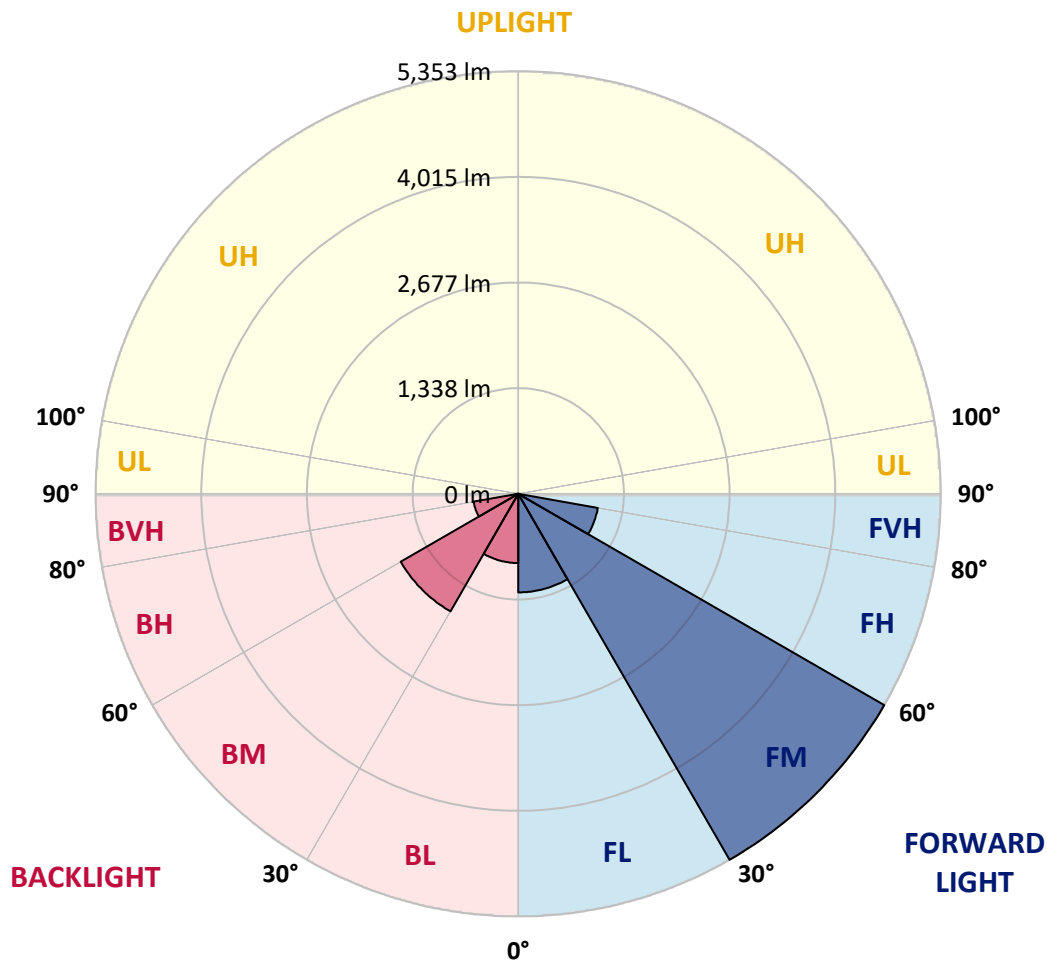


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.7	11.5			
FM (30°-60°)	5353.0	49.3			
FH (60°-80°)	1023.2	9.4			G1/1800
FVH (80°-90°)	22.9	0.2			G1/100
BL (0°-30°)	876.7	8.1	B2/1000		
BM (30°-60°)	1719.2	15.8	B2/2500		
BH (60°-80°)	574.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.5	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9
2.5°	2641.7	2634.9	2651.1	2663.3	2678.2	2697.1	2706.6	2712.0	2759.3	2747.1	2783.6
5°	2584.9	2567.3	2579.5	2588.9	2614.6	2637.6	2663.3	2703.8	2747.1	2766.0	2810.7
7.5°	2534.9	2525.4	2522.7	2529.5	2564.6	2594.3	2639.0	2698.4	2768.7	2799.8	2825.5
10°	2452.4	2438.9	2459.2	2503.8	2513.2	2575.4	2626.8	2712.0	2772.8	2826.9	2902.6
12.5°	2415.9	2402.4	2406.4	2432.1	2498.4	2557.8	2618.7	2714.7	2843.1	2864.7	2966.1
15°	2474.0	2460.5	2464.6	2457.8	2521.3	2552.4	2648.4	2768.7	2891.8	2928.3	3036.4
17.5°	2606.5	2607.9	2590.3	2575.4	2560.5	2626.8	2693.0	2801.2	2910.7	3002.6	3083.7
20°	2859.3	2814.7	2779.6	2695.7	2672.8	2701.1	2785.0	2889.1	2987.8	3063.5	3155.4
22.5°	3054.0	3058.1	3008.0	2870.1	2820.1	2832.3	2903.9	2989.1	3097.3	3151.3	3256.8
25°	3336.5	3308.2	3254.1	3144.6	3032.4	3041.8	3094.6	3171.6	3201.4	3239.2	3354.1
27.5°	3594.8	3602.9	3496.1	3393.3	3254.1	3227.0	3321.7	3335.2	3285.2	3356.8	3396.0
30°	3857.0	3850.3	3780.0	3659.7	3523.1	3528.5	3570.4	3504.2	3435.2	3474.4	3501.5
32.5°	4128.8	4051.7	4049.0	3940.9	3836.8	3786.7	3735.4	3767.8	3661.0	3669.1	3643.4
35°	4346.4	4357.3	4295.1	4218.0	4166.6	4078.8	3938.2	3996.3	3976.0	3966.5	3855.7
37.5°	4504.6	4462.7	4493.8	4468.1	4419.4	4309.9	4163.9	4219.4	4228.8	4274.8	4146.4
40°	4634.4	4616.8	4699.3	4712.8	4679.0	4442.4	4180.2	4345.1	4487.0	4587.1	4434.3
42.5°	4696.6	4734.4	4821.0	4925.1	4849.4	4596.5	4264.0	4441.1	4757.4	4915.6	4707.4
45°	4780.4	4731.7	4860.2	5050.8	5052.1	4726.3	4345.1	4570.9	4968.3	5198.1	4894.0
47.5°	4695.2	4719.6	4852.1	5094.1	5156.2	4862.9	4564.1	4754.7	5200.9	5405.0	5067.0
50°	4504.6	4553.3	4795.3	5046.7	5234.7	5007.5	4815.6	4953.5	5415.8	5571.3	5095.4
52.5°	4305.9	4332.9	4711.5	5083.2	5269.8	5194.1	5152.2	5227.9	5678.1	5759.2	5130.6
55°	3765.1	3893.5	4434.3	5067.0	5441.5	5530.7	5498.3	5609.1	5975.5	6056.6	5322.5
56°	3515.0	3582.6	4268.0	4991.3	5475.3	5653.7	5637.5	5687.5	6133.7	6218.9	5352.3
57.5°	3052.6	3058.1	3639.4	4656.0	5348.2	5690.3	5674.0	5713.2	6102.6	6044.5	5091.3
60°	1910.3	1994.1	2476.7	3581.2	4547.9	5279.3	5371.2	5056.2	5145.4	5022.4	3961.1
62.5°	989.6	977.4	1297.8	2094.1	3018.8	3780.0	3865.2	3850.3	3712.4	3532.6	2587.6
65°	493.5	496.2	678.7	1036.9	1546.6	1979.2	2217.2	2242.8	1876.5	1726.4	1227.5
67.5°	358.3	371.8	488.0	634.1	728.7	815.2	999.1	980.1	742.2	705.7	654.3
70°	278.5	290.7	396.1	484.0	439.4	439.4	478.6	494.8	528.6	543.5	561.0
72.5°	202.8	212.3	302.8	333.9	288.0	309.6	358.3	396.1	431.3	436.7	457.0
75°	139.2	147.4	198.7	183.9	173.0	213.6	262.3	297.4	323.1	336.6	348.8
77.5°	90.6	93.3	113.6	96.0	110.9	137.9	170.3	200.1	225.8	236.6	239.3
80°	40.6	44.6	48.7	60.8	77.1	98.7	121.7	146.0	162.2	166.3	174.4
82.5°	23.0	23.0	29.7	43.3	56.8	71.7	87.9	105.5	124.4	128.4	127.1
85°	12.2	12.2	17.6	25.7	35.2	41.9	40.6	41.9	44.6	51.4	50.0
87.5°	4.1	4.1	5.4	5.4	6.8	8.1	6.8	9.5	12.2	12.2	12.2
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°	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9
2.5°	2772.8	2785.0	2768.7	2803.9	2803.9	2797.1	2763.3	2774.1	2782.3	2782.3	2789.0
5°	2825.5	2821.5	2832.3	2790.4	2764.7	2755.2	2699.8	2672.8	2649.8	2648.4	2628.1
7.5°	2855.3	2844.4	2840.4	2809.3	2695.7	2626.8	2507.8	2438.9	2424.0	2371.3	2391.6
10°	2902.6	2922.9	2902.6	2733.6	2575.4	2417.2	2301.0	2194.2	2152.3	2118.5	2098.2
12.5°	2999.9	2990.5	2872.8	2644.4	2422.6	2234.7	2061.7	1949.5	1907.6	1877.8	1875.1
15°	3082.4	3035.1	2855.3	2503.8	2184.7	1984.6	1842.7	1762.9	1744.0	1746.7	1758.9
17.5°	3110.8	3078.3	2763.3	2357.8	2007.6	1772.4	1706.1	1694.0	1711.5	1731.8	1737.2
20°	3155.4	3104.0	2725.5	2159.0	1788.6	1639.9	1635.8	1679.1	1711.5	1741.3	1745.3
22.5°	3248.7	3118.9	2602.5	1971.1	1638.5	1600.7	1639.9	1676.4	1726.4	1750.7	1729.1
25°	3275.7	3086.4	2429.4	1745.3	1543.9	1576.3	1618.3	1668.3	1703.4	1716.9	1726.4
27.5°	3298.7	3036.4	2195.5	1595.3	1514.2	1575.0	1618.3	1660.2	1679.1	1691.3	1702.1
30°	3363.6	3021.6	1992.7	1495.2	1495.2	1548.0	1603.4	1614.2	1639.9	1654.8	1673.7
32.5°	3396.0	2918.8	1784.5	1431.7	1476.3	1561.5	1565.5	1585.8	1587.2	1599.3	1579.0
35°	3481.2	2845.8	1591.2	1385.7	1484.4	1548.0	1568.2	1556.1	1489.8	1457.4	1464.1
37.5°	3543.4	2809.3	1452.0	1380.3	1485.8	1562.8	1573.6	1481.7	1412.8	1358.7	1372.2
40°	3711.0	2718.7	1346.5	1370.9	1497.9	1579.0	1549.3	1449.3	1324.9	1269.5	1260.0
42.5°	3839.5	2653.8	1280.3	1360.0	1507.4	1602.0	1537.1	1384.4	1257.3	1205.9	1219.4
45°	3988.2	2639.0	1245.1	1362.7	1523.6	1614.2	1522.3	1334.3	1199.2	1178.9	1174.8
47.5°	4040.9	2532.2	1207.3	1339.8	1519.6	1610.1	1472.2	1296.5	1177.5	1180.2	1191.0
50°	3953.0	2422.6	1178.9	1292.4	1492.5	1573.6	1393.8	1246.5	1165.4	1199.2	1218.1
52.5°	3840.8	2310.4	1120.7	1228.9	1437.1	1516.9	1357.3	1243.8	1153.2	1142.4	1146.4
55°	3874.6	2218.5	1039.6	1142.4	1347.9	1411.4	1316.8	1218.1	1123.4	1082.9	1096.4
56°	3765.1	2123.9	986.9	1088.3	1287.0	1343.8	1296.5	1195.1	1099.1	1072.1	1072.1
57.5°	3455.5	1806.2	918.0	1001.8	1158.6	1226.2	1257.3	1181.6	1072.1	1024.8	1026.1
60°	2548.4	1284.3	823.3	882.8	959.9	1013.9	1158.6	1143.7	1004.5	972.0	959.9
62.5°	1570.9	938.2	755.7	778.7	817.9	862.5	1011.2	1035.6	932.8	897.7	889.6
65°	880.1	717.9	704.4	713.8	732.7	755.7	839.5	893.6	823.3	769.2	766.5
67.5°	643.5	642.2	653.0	661.1	669.2	669.2	689.5	711.1	701.6	658.4	654.3
70°	571.9	575.9	584.0	585.4	588.1	578.6	562.4	555.6	566.5	539.4	534.0
72.5°	471.8	485.3	494.8	496.2	481.3	469.1	447.5	424.5	416.4	411.0	409.6
75°	362.3	371.8	375.8	374.5	369.1	351.5	325.8	302.8	288.0	271.7	279.8
77.5°	244.7	258.2	265.0	265.0	256.9	229.8	217.7	200.1	185.2	167.6	170.3
80°	171.7	181.2	192.0	190.6	177.1	163.6	146.0	129.8	117.6	104.1	102.7
82.5°	128.4	133.8	139.2	136.5	127.1	113.6	101.4	86.5	73.0	63.5	63.5
85°	46.0	50.0	60.8	63.5	68.9	68.9	58.1	48.7	39.2	32.4	32.4
87.5°	13.5	13.5	14.9	14.9	13.5	14.9	12.2	13.5	14.9	9.5	9.5
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)