

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: P529279

Luminaire Tested: **GALN-SA4B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10551 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 164
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

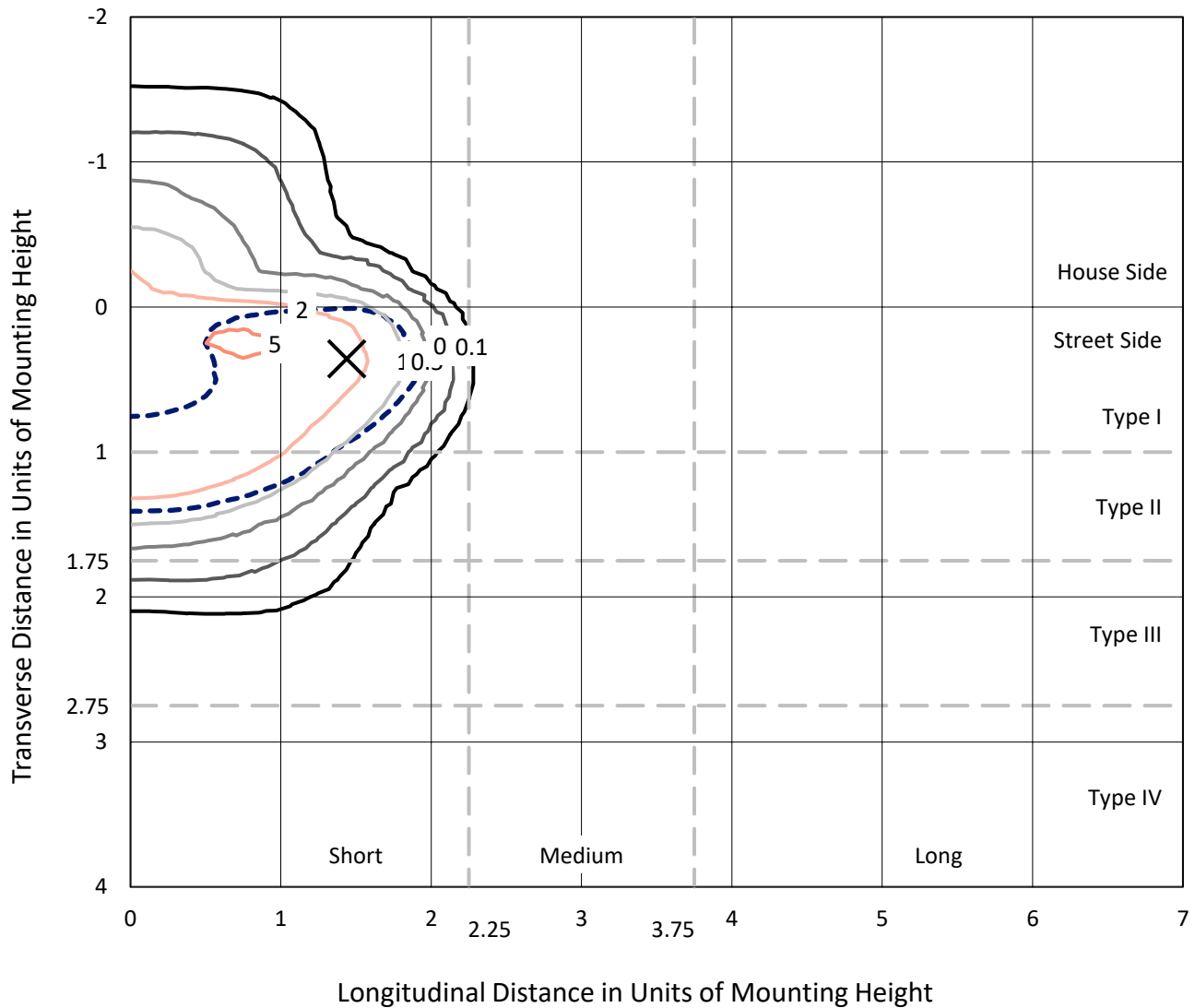


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Iso-Footcandle Lines of Horizontal Illumination

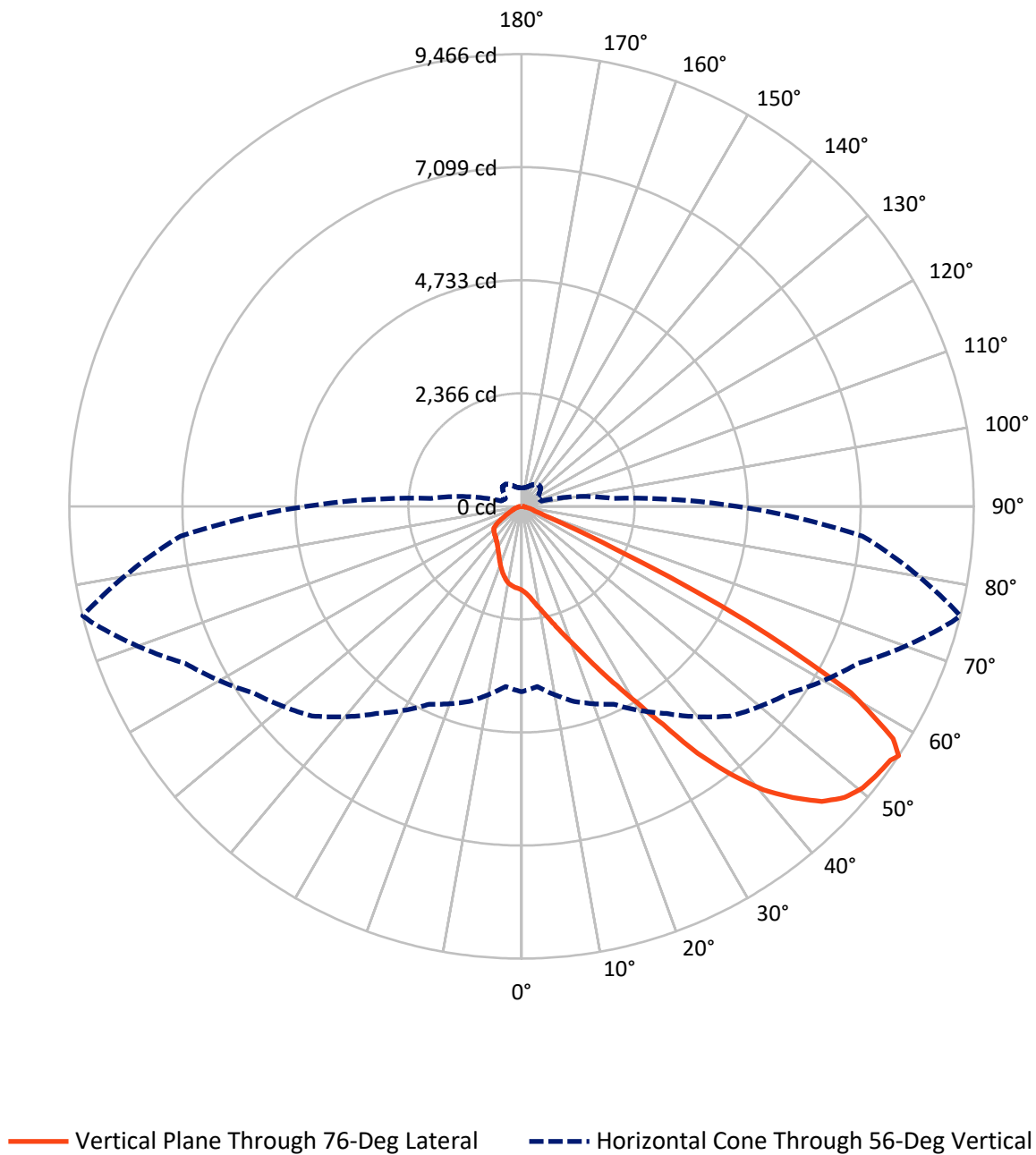
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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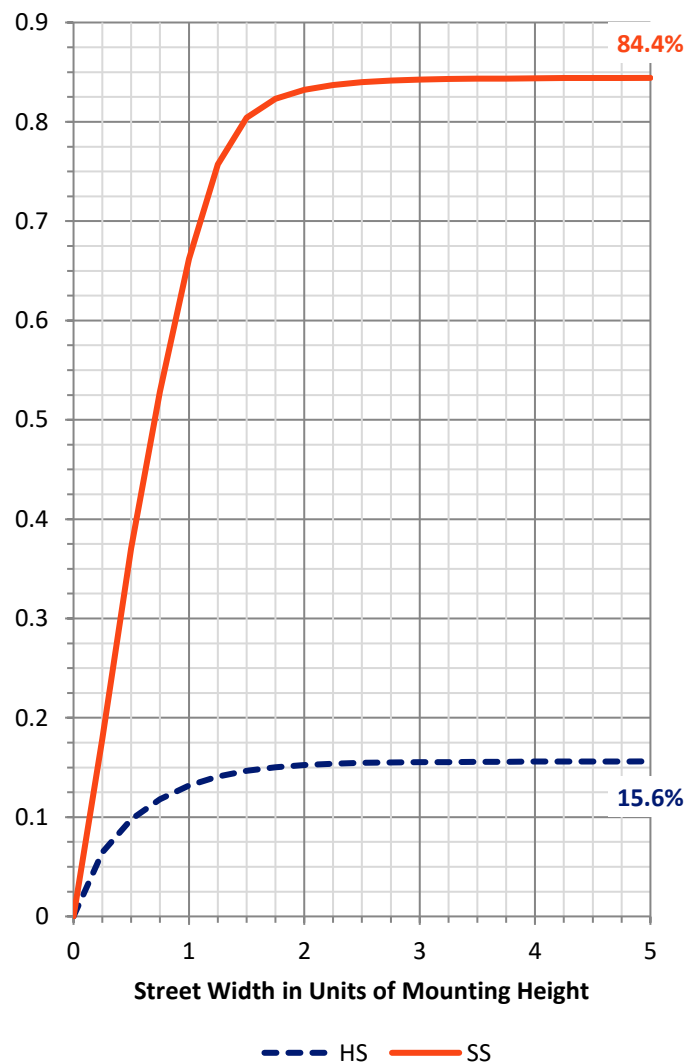
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1657.5	0.0	1657.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8893.5	0.0	8893.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	10551.0	0.0	10551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	1.7
10°-20°	568.4	5.4
20°-30°	1030.6	9.8
30°-40°	1777.3	16.8
40°-50°	2887.3	27.4
50°-60°	3043.3	28.8
60°-70°	929.9	8.8
70°-80°	119.2	1.1
80°-90°	18.1	0.2
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°	10551.0	100.0
0°-180°	10551.0	100.0

Coefficient of Utilization



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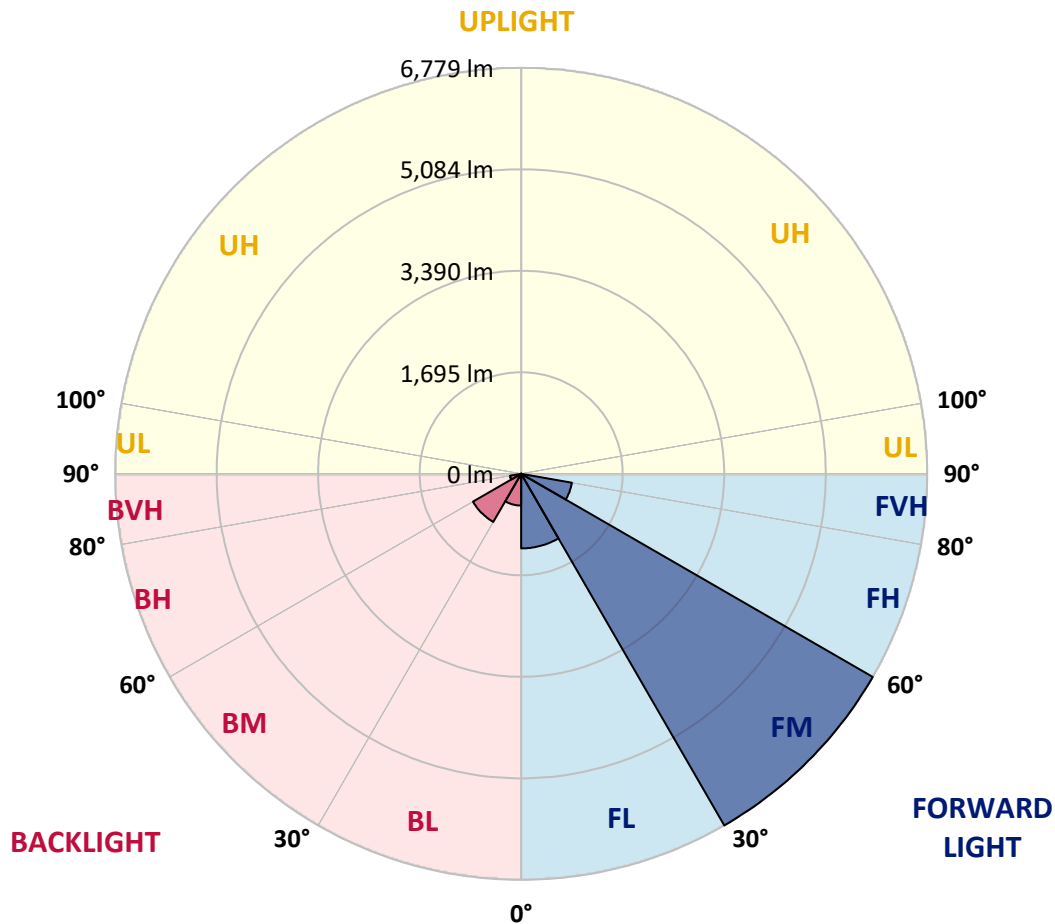
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.6	11.8			
FM	(30°-60°)	6779.0	64.2			
FH	(60°-80°)	860.0	8.2			G1/1800
FVH	(80°-90°)	8.9	0.1			G0/10
BL	(0°-30°)	530.2	5.0	B2/1000		
BM	(30°-60°)	928.9	8.8	B1/1000		
BH	(60°-80°)	189.1	1.8	B1/500		G1/500
BVH	(80°-90°)	9.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2
2.5°	2022.7	1976.0	1977.9	1974.1	1968.2	1946.8	1882.6	1872.9	1830.1	1818.5	1779.6
5°	2265.8	2224.9	2248.3	2213.3	2180.2	2160.8	2055.7	2007.1	1939.0	1913.8	1859.3
7.5°	2417.5	2398.0	2390.3	2392.2	2361.1	2312.5	2265.8	2158.8	2067.4	2048.0	1933.2
10°	2491.4	2479.7	2491.4	2485.6	2499.2	2505.0	2423.3	2359.1	2224.9	2191.9	2013.0
12.5°	2508.9	2532.2	2542.0	2567.2	2600.3	2656.7	2650.9	2563.4	2384.4	2363.0	2135.5
15°	2551.7	2571.1	2561.4	2602.3	2664.5	2759.8	2810.4	2796.7	2604.2	2565.3	2277.5
17.5°	2590.6	2555.6	2588.6	2670.3	2732.6	2878.4	3001.0	3057.4	2843.4	2798.7	2407.8
20°	2643.1	2633.4	2627.5	2668.4	2779.2	2973.7	3216.8	3319.9	3111.8	3065.1	2594.5
22.5°	2802.6	2804.5	2800.6	2740.3	2820.1	3039.9	3405.5	3660.3	3432.7	3393.8	2806.5
25°	3012.6	2987.3	2967.9	2919.3	2909.5	3100.1	3596.1	4076.5	3817.8	3790.6	3036.0
27.5°	3234.3	3234.3	3176.0	3131.3	3069.0	3249.9	3771.1	4481.0	4282.6	4245.7	3236.3
30°	3475.5	3489.1	3481.3	3386.0	3347.1	3413.3	3950.1	4998.4	4815.5	4768.9	3566.9
32.5°	3831.4	3802.2	3835.3	3755.6	3640.8	3699.2	4232.1	5461.2	5507.9	5441.8	4000.6
35°	4302.1	4284.6	4263.2	4132.9	3996.7	4043.4	4630.8	6031.1	6377.3	6344.2	4438.2
37.5°	4724.1	4714.4	4696.9	4607.4	4449.9	4506.3	5083.9	6624.3	7225.2	7116.3	5056.7
40°	5167.6	5220.1	5163.7	5083.9	4940.0	5064.5	5616.8	6976.3	7939.0	7806.8	5529.3
42.5°	5768.5	5727.7	5753.0	5607.1	5529.3	5665.4	6151.7	7328.3	8493.3	8335.8	6031.1
45°	6408.4	6410.3	6342.3	6295.6	6093.3	6241.1	6480.4	7522.8	8934.8	8812.3	6410.3
47.5°	6818.8	6816.8	6890.7	6964.6	6756.5	6610.7	6704.0	7707.6	9162.3	9105.9	6548.4
50°	6754.6	6774.0	6869.3	7145.5	7254.4	7058.0	6914.1	7653.1	9265.4	9259.6	6667.1
52.5°	5875.5	5939.7	6099.2	6497.9	7046.3	7289.4	7133.8	7754.3	9316.0	9325.7	6844.0
55°	4473.2	4508.2	4811.6	5295.9	5902.7	6735.1	7046.3	7834.0	9354.9	9372.4	7058.0
56°	3880.0	3786.7	4224.3	4568.5	5294.0	6204.2	6824.6	7771.8	9331.6	9465.7	7165.0
57.5°	2929.0	2866.8	3220.7	3650.5	4348.8	5309.5	6136.1	7478.1	9174.0	9172.1	7011.3
60°	1781.5	1719.3	1991.6	2244.4	2635.3	3269.3	4146.5	5955.2	7756.2	7919.6	5677.1
62.5°	1060.0	1098.9	1367.3	1520.9	1647.3	1713.4	2145.2	3539.7	5175.3	5292.0	3522.2
65°	706.0	719.6	921.9	1174.7	1231.1	980.2	873.3	1433.4	2244.4	2172.4	1452.8
67.5°	435.7	466.8	618.5	883.0	978.3	715.7	414.3	534.8	618.5	618.5	420.1
70°	264.5	280.1	412.3	601.0	671.0	460.9	301.5	301.5	297.6	291.7	250.9
72.5°	126.4	136.1	210.0	309.2	315.1	243.1	233.4	254.8	248.9	247.0	208.1
75°	54.5	58.3	73.9	97.2	110.9	103.1	142.0	182.8	188.7	182.8	149.8
77.5°	17.5	19.4	27.2	35.0	37.0	44.7	60.3	75.9	87.5	81.7	73.9
80°	1.9	3.9	7.8	17.5	27.2	35.0	44.7	50.6	56.4	56.4	52.5
82.5°	1.9	1.9	7.8	15.6	25.3	33.1	42.8	48.6	56.4	58.3	54.5
85°	0.0	1.9	5.8	13.6	21.4	21.4	19.4	19.4	13.6	13.6	13.6
87.5°	0.0	0.0	1.9	1.9	1.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2
2.5°	1771.8	1767.9	1715.4	1682.3	1664.8	1629.8	1608.4	1592.9	1581.2	1567.6	1569.5
5°	1795.1	1781.5	1694.0	1633.7	1561.7	1522.8	1489.8	1462.6	1445.0	1441.2	1433.4
7.5°	1861.3	1789.3	1657.0	1548.1	1456.7	1417.8	1388.6	1371.1	1378.9	1361.4	1375.0
10°	1911.8	1804.9	1612.3	1454.8	1363.4	1334.2	1318.6	1332.2	1351.7	1343.9	1334.2
12.5°	1974.1	1820.4	1540.3	1365.3	1279.7	1258.3	1285.6	1310.9	1349.7	1365.3	1345.9
15°	2044.1	1837.9	1448.9	1262.2	1207.8	1225.3	1272.0	1316.7	1355.6	1375.0	1386.7
17.5°	2129.6	1832.1	1359.5	1180.5	1139.7	1190.3	1246.7	1287.5	1345.9	1375.0	1367.3
20°	2209.4	1812.6	1260.3	1098.9	1100.8	1147.5	1194.2	1260.3	1291.4	1330.3	1316.7
22.5°	2285.2	1777.6	1157.2	1042.5	1042.5	1114.4	1137.8	1180.5	1207.8	1227.2	1225.3
25°	2392.2	1711.5	1071.6	988.0	1011.3	1058.0	1077.5	1091.1	1079.4	1095.0	1096.9
27.5°	2468.1	1643.4	1001.6	939.4	982.2	1017.2	1011.3	1003.6	976.3	954.9	968.6
30°	2549.7	1563.7	941.3	906.3	929.7	960.8	937.4	914.1	871.3	836.3	838.2
32.5°	2666.4	1526.7	888.8	867.4	898.5	902.4	877.1	842.1	799.3	766.3	764.3
35°	2884.3	1503.4	844.1	842.1	848.0	849.9	824.6	781.8	764.3	737.1	746.8
37.5°	3102.1	1491.7	813.0	805.2	803.2	805.2	776.0	735.2	768.2	766.3	770.2
40°	3380.2	1544.2	768.2	758.5	760.4	760.4	723.5	711.8	770.2	776.0	778.0
42.5°	3662.2	1610.4	739.1	707.9	715.7	715.7	696.3	682.7	723.5	684.6	678.8
45°	3907.3	1707.6	707.9	657.4	676.8	686.5	680.7	657.4	632.1	566.0	566.0
47.5°	3987.0	1793.2	671.0	608.7	624.3	667.1	649.6	601.0	556.2	501.8	497.9
50°	4127.0	1886.5	641.8	552.3	585.4	637.9	620.4	571.8	521.2	482.3	484.3
52.5°	4271.0	1993.5	587.4	486.2	527.1	614.6	614.6	560.1	482.3	455.1	451.2
55°	4486.8	1989.6	490.1	398.7	470.7	579.6	589.3	501.8	431.8	410.4	410.4
56°	4518.0	1900.2	441.5	373.4	445.4	569.9	571.8	486.2	412.3	389.0	389.0
57.5°	4284.6	1715.4	387.0	342.3	414.3	552.3	554.3	472.6	396.8	363.7	359.8
60°	3296.6	1161.1	322.9	305.3	375.4	497.9	507.6	429.8	348.1	322.9	320.9
62.5°	1861.3	643.8	284.0	276.2	322.9	424.0	453.2	375.4	295.6	282.0	285.9
65°	849.9	354.0	239.2	223.7	260.6	326.7	365.6	309.2	243.1	227.6	227.6
67.5°	311.2	241.2	204.2	177.0	182.8	212.0	237.3	200.3	161.4	138.1	143.9
70°	221.7	202.3	178.9	153.6	142.0	138.1	136.1	112.8	79.7	62.2	66.1
72.5°	178.9	167.3	149.8	130.3	110.9	93.4	79.7	58.3	37.0	25.3	23.3
75°	128.4	122.5	108.9	93.4	77.8	66.1	54.5	37.0	19.4	9.7	9.7
77.5°	66.1	66.1	64.2	58.3	48.6	38.9	31.1	21.4	11.7	3.9	3.9
80°	50.6	54.5	56.4	50.6	44.7	35.0	25.3	15.6	7.8	1.9	1.9
82.5°	48.6	56.4	60.3	52.5	44.7	33.1	25.3	15.6	7.8	1.9	1.9
85°	11.7	11.7	17.5	19.4	25.3	27.2	21.4	13.6	5.8	1.9	1.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	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)