

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: P527720

Luminaire Tested: **GALN-SA2D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11884 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

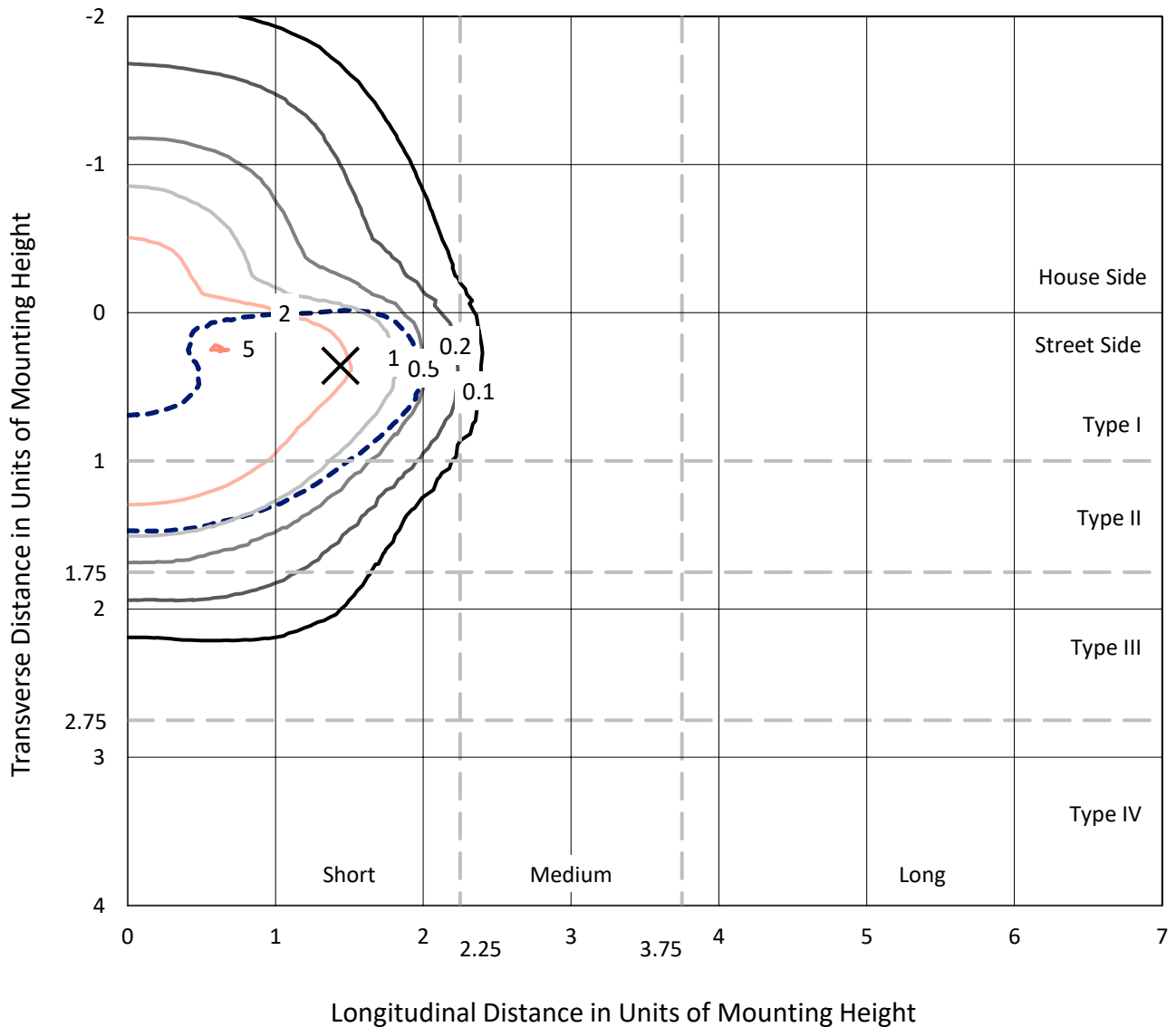
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

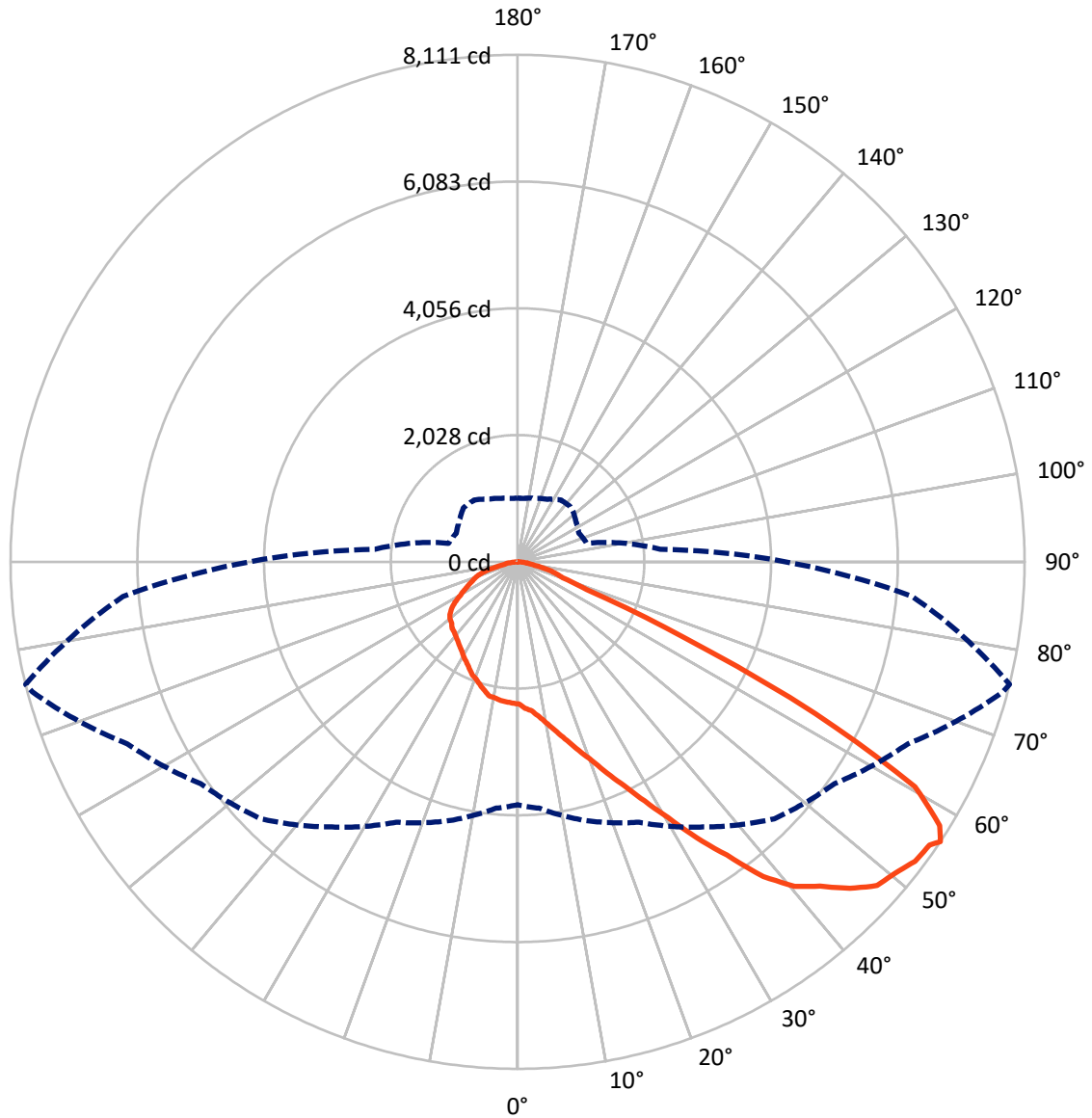
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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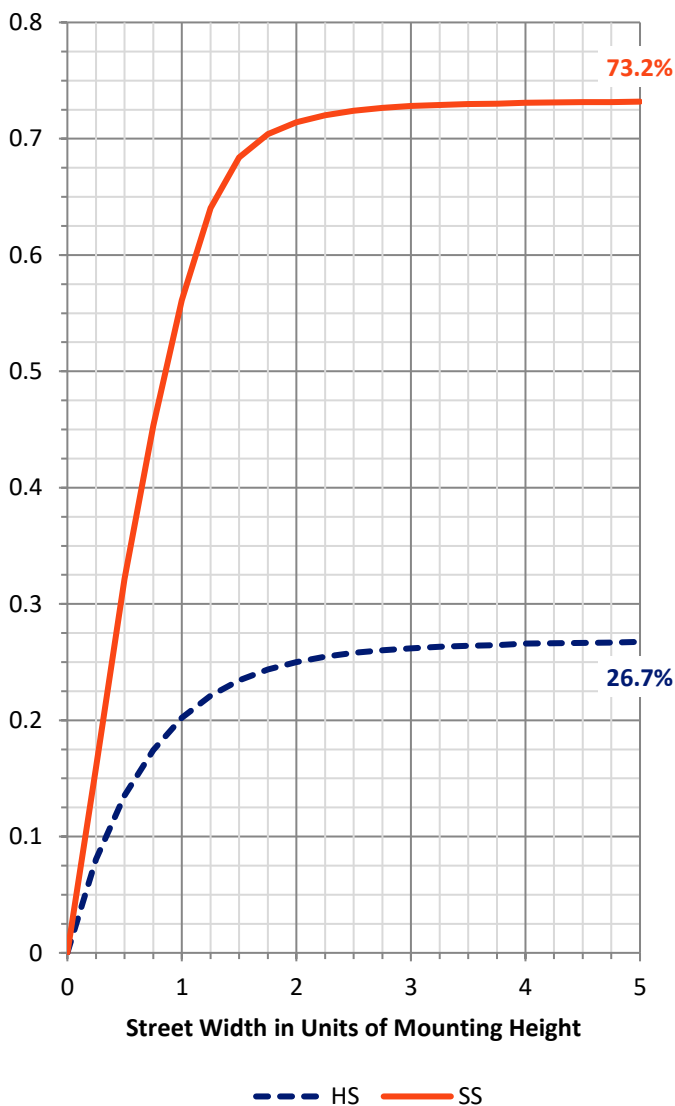
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3195.2	0.0	3195.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	8688.7	0.0	8688.7
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	11884.0	0.0	11884.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.5	1.9
10°-20°	708.4	6.0
20°-30°	1238.8	10.4
30°-40°	1939.6	16.3
40°-50°	2821.6	23.7
50°-60°	3101.2	26.1
60°-70°	1384.2	11.6
70°-80°	399.8	3.4
80°-90°	64.8	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°	11884.0	100.0
0°-180°	11884.0	100.0

**Coefficient of Utilization**



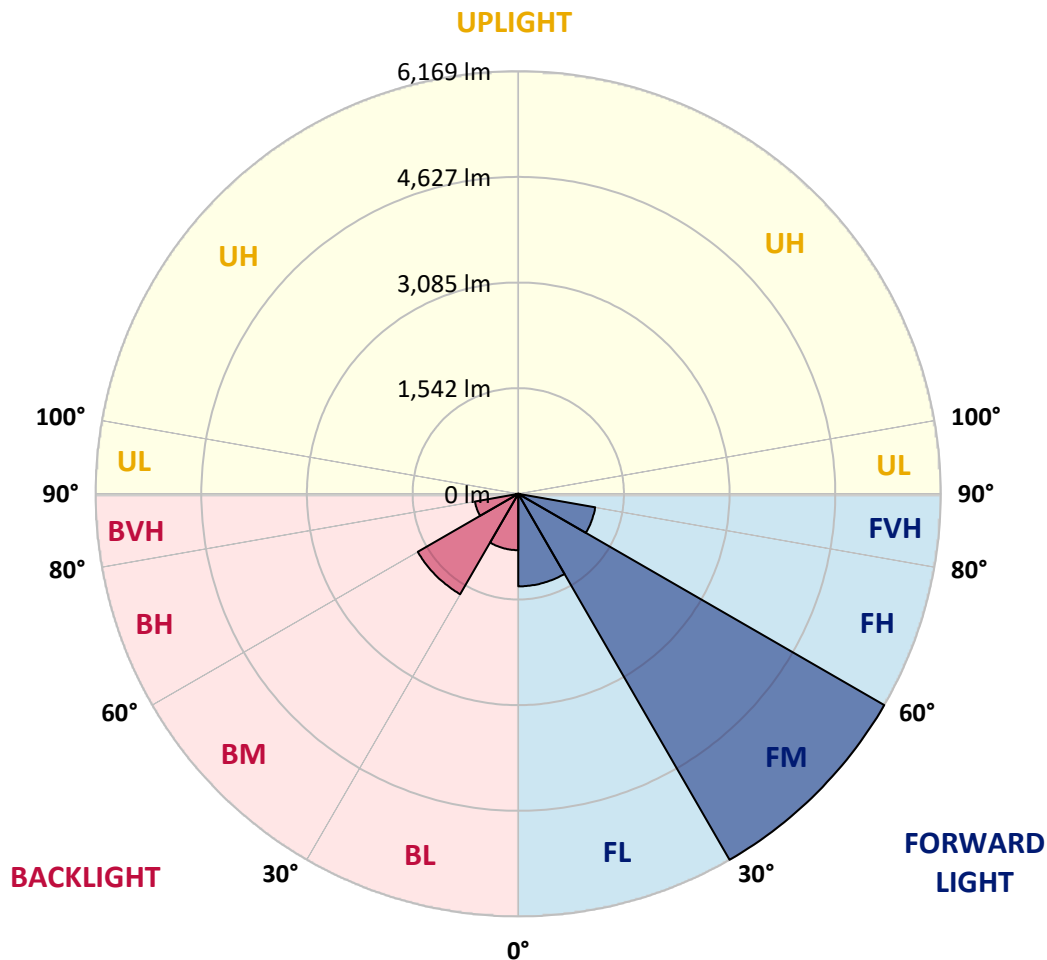
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.5	11.4			
FM (30°-60°)	6169.2	51.9			
FH (60°-80°)	1141.1	9.6			G1/1800
FVH (80°-90°)	27.9	0.2			G1/100
BL (0°-30°)	822.2	6.9	B2/1000		
BM (30°-60°)	1693.2	14.2	B2/2500		
BH (60°-80°)	642.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.9	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°	76°	85°
0°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2504.9	2464.9	2461.8	2451.0	2457.2	2429.4	2400.2	2361.7	2321.6	2346.3	2287.7
5°	2680.6	2626.6	2648.2	2611.2	2615.9	2578.9	2518.8	2474.1	2424.8	2395.6	2354.0
7.5°	2742.2	2746.8	2762.2	2756.0	2725.2	2725.2	2685.2	2606.6	2520.3	2503.4	2434.1
10°	2825.4	2826.9	2810.0	2814.6	2857.7	2837.7	2802.3	2768.4	2657.4	2637.4	2514.2
12.5°	2854.6	2826.9	2854.6	2879.3	2930.1	2957.9	2950.2	2925.5	2806.9	2793.0	2612.8
15°	2859.3	2842.3	2865.4	2920.9	2965.6	3082.6	3141.2	3124.2	2967.1	2968.6	2723.7
17.5°	2837.7	2860.8	2870.0	2917.8	3021.0	3130.4	3299.9	3323.0	3193.6	3173.5	2863.9
20°	2867.0	2850.0	2862.3	2905.5	3042.6	3213.6	3435.4	3587.9	3406.2	3392.3	3008.7
22.5°	2979.4	2956.3	2953.2	2981.0	3079.6	3256.7	3578.7	3852.9	3665.0	3672.7	3188.9
25°	3067.2	3079.6	3068.8	3067.2	3128.9	3321.4	3768.2	4168.7	4016.2	3971.5	3401.5
27.5°	3218.2	3247.5	3225.9	3255.2	3241.3	3418.5	3903.8	4518.4	4395.2	4335.1	3594.1
30°	3427.7	3443.1	3423.1	3423.1	3381.5	3554.0	4027.0	4883.5	4832.7	4751.1	3820.6
32.5°	3703.5	3726.6	3686.5	3663.4	3657.3	3755.9	4248.8	5244.0	5330.3	5261.0	4121.0
35°	4068.6	4054.7	4007.0	3985.4	3902.2	4065.5	4578.5	5658.4	5884.9	5761.7	4484.5
37.5°	4390.6	4369.0	4365.9	4245.8	4265.8	4399.8	4858.9	5972.7	6422.6	6387.1	4868.1
40°	4691.0	4711.0	4743.4	4675.6	4644.8	4792.6	5185.5	6213.0	6840.0	6826.2	5163.9
42.5°	5012.9	4994.5	5051.5	4994.5	4948.2	5157.8	5539.8	6379.4	7206.7	7092.7	5473.6
45°	5479.7	5421.2	5441.2	5445.8	5411.9	5489.0	5686.2	6499.6	7464.0	7451.6	5700.0
47.5°	5869.5	5871.0	5837.1	5811.0	5707.7	5784.8	5849.5	6575.1	7759.7	7739.7	5787.8
50°	6014.3	5994.3	6092.9	6149.9	6156.0	5998.9	5977.3	6616.7	7915.3	7827.5	5875.7
52.5°	5493.6	5512.1	5667.7	6006.6	6202.3	6219.2	6126.8	6702.9	7978.5	7960.0	5946.5
55°	4421.4	4510.7	4766.5	5157.8	5621.5	6131.4	6288.5	6792.3	8012.4	7997.0	6260.8
56°	3886.8	3956.1	4288.9	4595.5	5177.8	5812.5	6186.8	6887.8	8038.6	8111.0	6334.7
57.5°	3128.9	3209.0	3447.7	3795.9	4483.0	5205.5	5906.5	6770.7	7936.9	7964.6	6388.7
60°	1956.5	1964.2	2250.7	2480.3	2964.0	3669.6	4507.6	5891.1	7345.3	7305.3	5738.5
62.5°	1283.3	1284.8	1545.2	1733.1	1953.4	2115.2	2652.8	3906.8	5419.7	5348.8	4085.5
65°	901.2	921.2	1123.1	1374.2	1463.5	1378.8	1361.8	2059.7	3027.2	2925.5	2195.3
67.5°	659.4	660.9	839.6	1109.2	1238.6	1049.1	851.9	1006.0	1198.5	1195.5	1016.8
70°	436.0	454.5	591.6	828.8	976.7	842.7	696.3	719.4	762.6	762.6	756.4
72.5°	254.2	271.1	362.0	525.3	548.4	526.9	551.5	616.2	643.9	642.4	634.7
75°	144.8	152.5	172.5	218.8	272.7	322.0	405.2	466.8	494.5	511.5	491.4
77.5°	84.7	89.4	101.7	124.8	141.7	174.1	220.3	263.4	300.4	295.8	298.9
80°	44.7	44.7	57.0	73.9	98.6	123.2	146.4	171.0	191.0	195.6	200.3
82.5°	26.2	27.7	37.0	53.9	70.9	87.8	112.5	129.4	147.9	149.4	152.5
85°	13.9	15.4	23.1	35.4	47.8	53.9	55.5	52.4	57.0	53.9	61.6
87.5°	4.6	4.6	7.7	6.2	6.2	7.7	9.2	9.2	12.3	12.3	12.3
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°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2286.2	2286.2	2260.0	2210.7	2203.0	2183.0	2164.5	2162.9	2149.1	2136.7	2130.6
5°	2329.3	2281.6	2243.0	2198.4	2146.0	2121.3	2093.6	2062.8	2050.5	2062.8	2061.3
7.5°	2378.6	2338.6	2223.0	2139.8	2079.7	2055.1	2024.3	1991.9	1995.0	1995.0	1973.4
10°	2426.4	2372.4	2187.6	2081.3	1993.5	1975.0	1958.0	1970.4	1985.8	1988.8	1975.0
12.5°	2506.5	2384.8	2170.6	2022.7	1967.3	1927.2	1938.0	1971.9	2004.3	1995.0	2005.8
15°	2566.6	2395.6	2093.6	1962.7	1893.3	1911.8	1950.3	1973.4	2027.4	2021.2	2032.0
17.5°	2625.1	2401.7	2018.1	1882.6	1853.3	1904.1	1933.4	1999.6	2016.6	2053.6	2067.4
20°	2745.3	2414.0	1941.1	1833.3	1824.0	1882.6	1933.4	1964.2	2001.2	2033.5	2033.5
22.5°	2806.9	2407.9	1890.3	1768.6	1797.8	1834.8	1881.0	1933.4	1933.4	1964.2	1965.7
25°	2883.9	2383.2	1810.1	1737.7	1759.3	1794.7	1847.1	1828.6	1848.7	1848.7	1873.3
27.5°	2971.7	2330.9	1740.8	1682.3	1725.4	1763.9	1771.6	1759.3	1736.2	1733.1	1723.9
30°	3042.6	2266.1	1690.0	1663.8	1699.2	1720.8	1696.1	1670.0	1629.9	1626.8	1605.3
32.5°	3139.6	2186.0	1626.8	1617.6	1657.6	1659.2	1651.5	1611.4	1552.9	1528.2	1503.6
35°	3302.9	2139.8	1579.1	1592.9	1605.3	1600.6	1586.8	1543.6	1485.1	1474.3	1465.1
37.5°	3423.1	2105.9	1529.8	1546.7	1557.5	1563.7	1522.1	1474.3	1475.8	1454.3	1448.1
40°	3558.7	2084.4	1489.7	1497.4	1499.0	1519.0	1468.1	1445.0	1455.8	1442.0	1451.2
42.5°	3732.8	2090.5	1448.1	1442.0	1471.2	1463.5	1438.9	1408.1	1414.2	1372.6	1378.8
45°	3825.2	2132.1	1423.5	1395.7	1428.1	1426.5	1394.2	1364.9	1328.0	1247.8	1250.9
47.5°	3886.8	2142.9	1364.9	1346.4	1380.3	1400.4	1363.4	1295.6	1243.2	1186.2	1172.4
50°	3950.0	2162.9	1337.2	1298.7	1312.5	1360.3	1314.1	1249.4	1198.5	1147.7	1155.4
52.5°	4005.4	2201.4	1283.3	1226.3	1250.9	1303.3	1278.7	1200.1	1144.6	1103.0	1090.7
55°	4251.9	2287.7	1192.4	1118.4	1177.0	1243.2	1229.4	1133.8	1073.8	1052.2	1049.1
56°	4290.4	2290.8	1144.6	1081.5	1135.4	1223.2	1206.3	1104.6	1050.7	1016.8	1018.3
57.5°	4296.6	2253.8	1076.8	1047.6	1093.8	1193.9	1172.4	1081.5	1007.5	976.7	967.5
60°	3780.5	1759.3	992.1	973.6	1027.5	1104.6	1096.9	1018.3	935.1	899.7	916.6
62.5°	2577.3	1289.4	925.9	922.8	950.5	1026.0	1006.0	935.1	865.8	842.7	831.9
65°	1500.5	978.2	861.2	848.8	872.0	912.0	925.9	851.9	779.5	764.1	759.5
67.5°	885.8	808.8	778.0	758.0	750.2	774.9	785.7	742.5	670.1	648.6	667.1
70°	741.0	719.4	721.0	687.1	668.6	651.7	642.4	603.9	543.8	516.1	508.4
72.5°	639.3	630.1	623.9	593.1	576.2	537.7	497.6	459.1	414.4	391.3	392.8
75°	488.4	485.3	488.4	472.9	443.7	412.9	375.9	326.6	292.7	263.4	269.6
77.5°	291.2	300.4	305.0	298.9	286.5	258.8	235.7	203.4	171.0	147.9	144.8
80°	200.3	208.0	215.7	208.0	195.6	175.6	151.0	126.3	103.2	90.9	87.8
82.5°	152.5	160.2	164.8	157.1	141.7	120.2	103.2	86.3	67.8	55.5	52.4
85°	55.5	63.2	61.6	73.9	80.1	77.0	66.2	50.8	38.5	27.7	26.2
87.5°	15.4	13.9	15.4	15.4	15.4	13.9	12.3	12.3	12.3	7.7	6.2
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)