

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: P527492

Luminaire Tested: **GALN-SA2C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527492
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-SA2C-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 11240 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

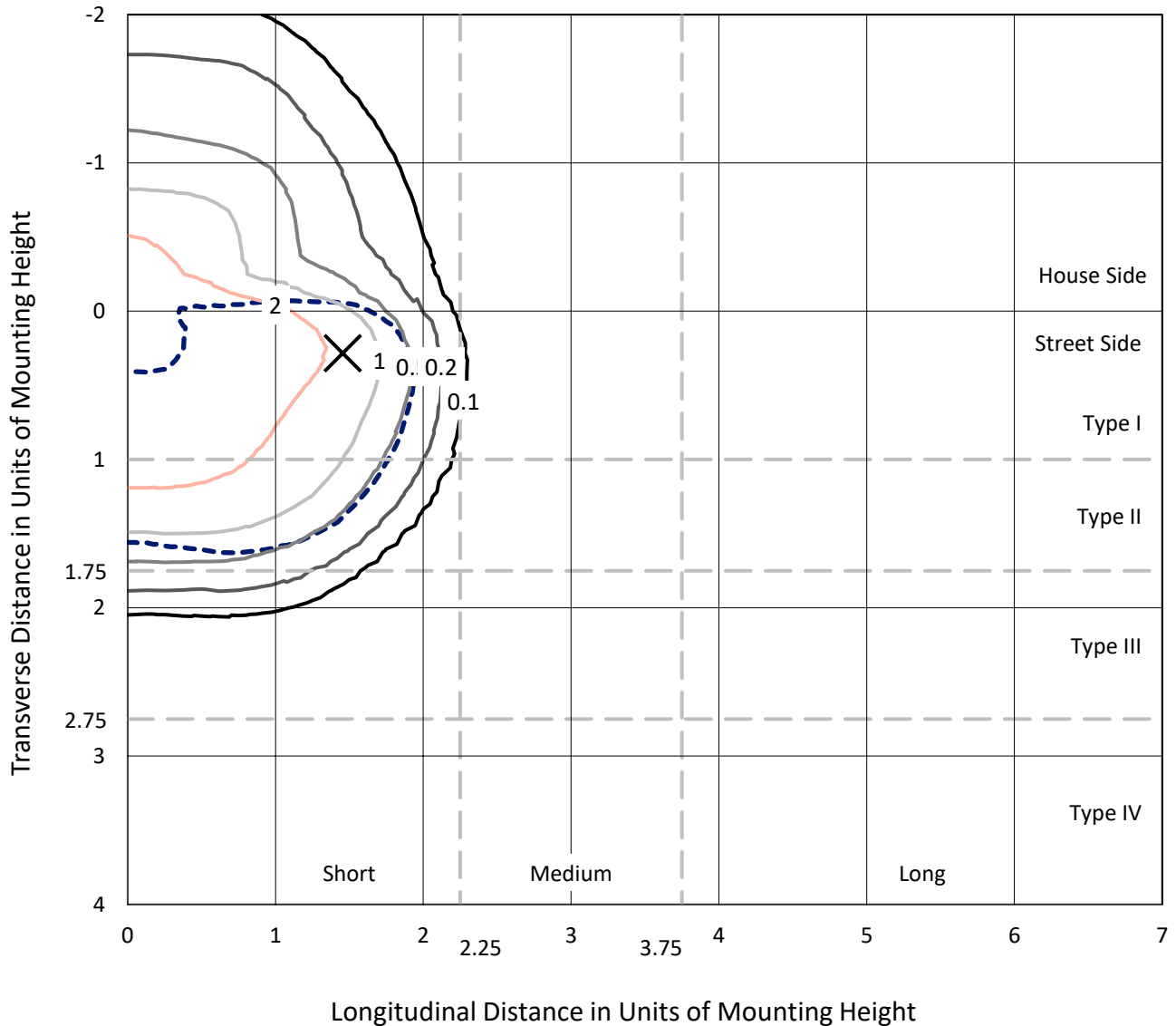
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

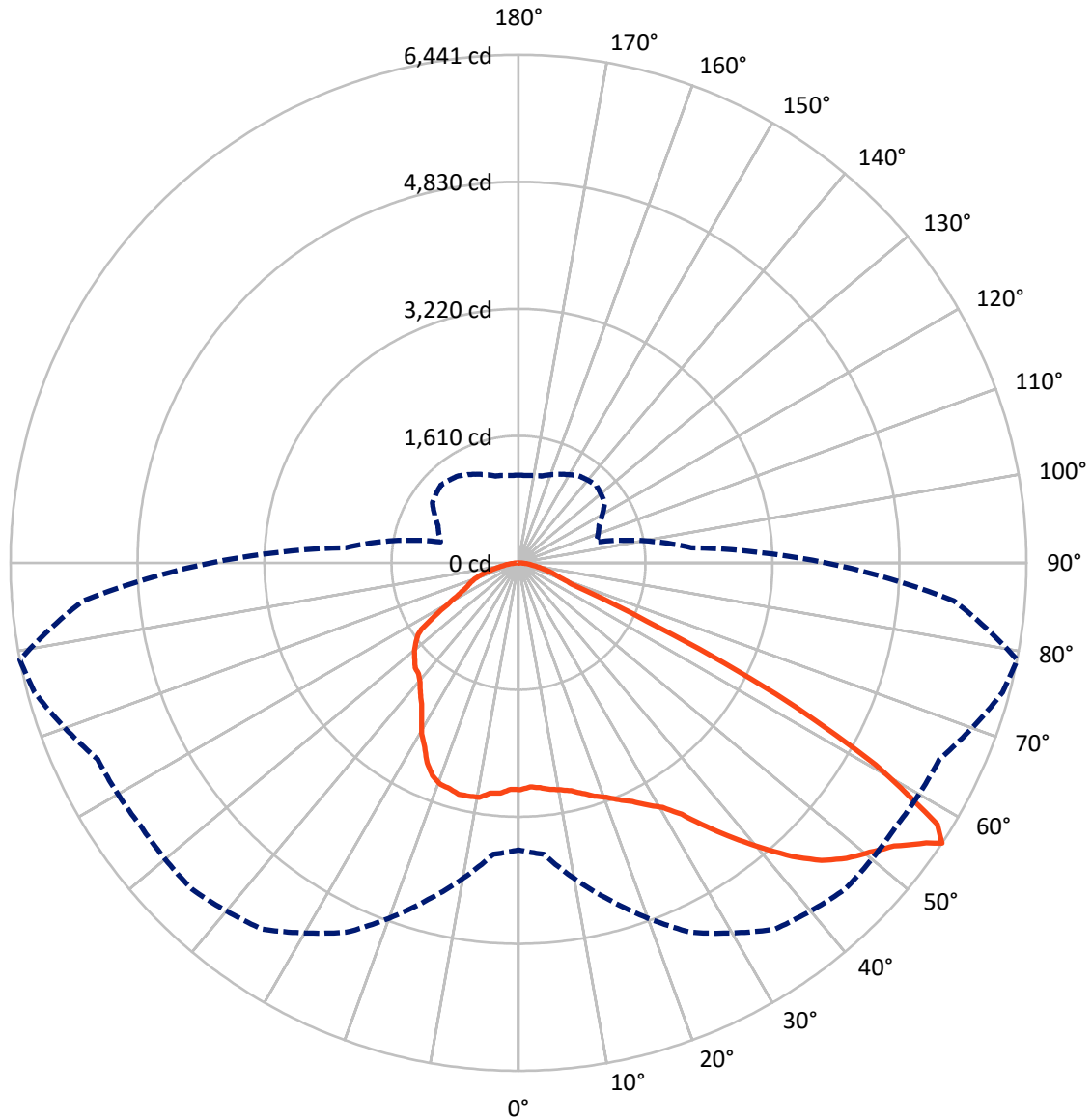
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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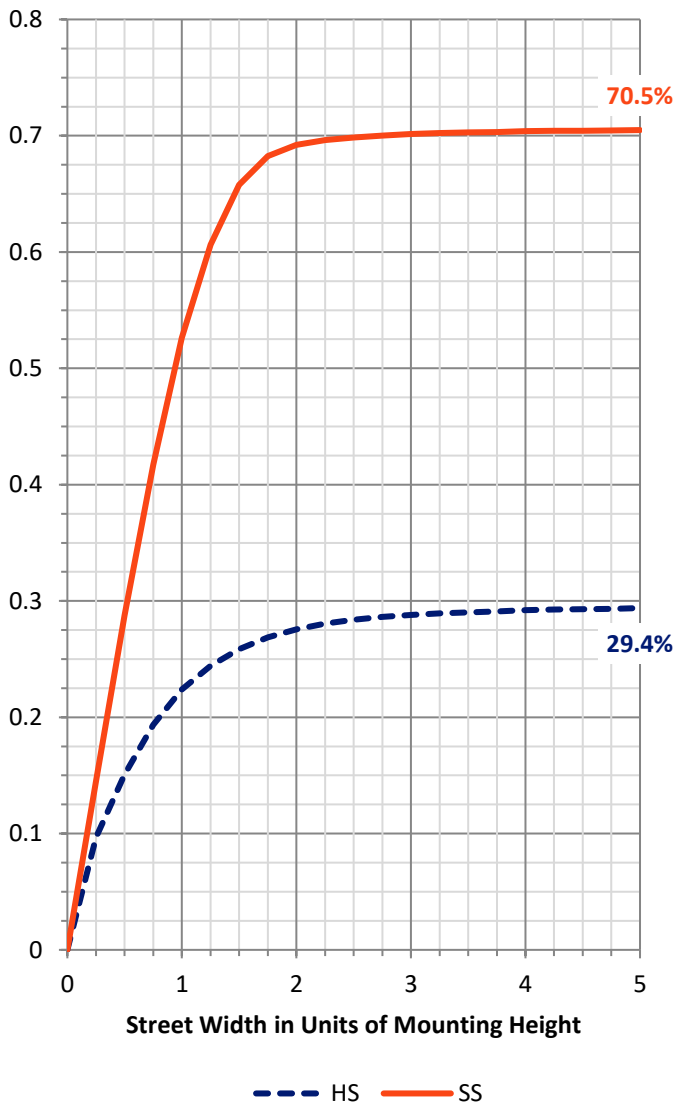
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3319.4	0.0	3319.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7920.6	0.0	7920.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	11240.0	0.0	11240.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.5	2.3
10°-20°	715.6	6.4
20°-30°	1224.2	10.9
30°-40°	1876.3	16.7
40°-50°	2535.7	22.6
50°-60°	2912.4	25.9
60°-70°	1327.6	11.8
70°-80°	327.3	2.9
80°-90°	59.5	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°	11240.0	100.0
0°-180°	11240.0	100.0



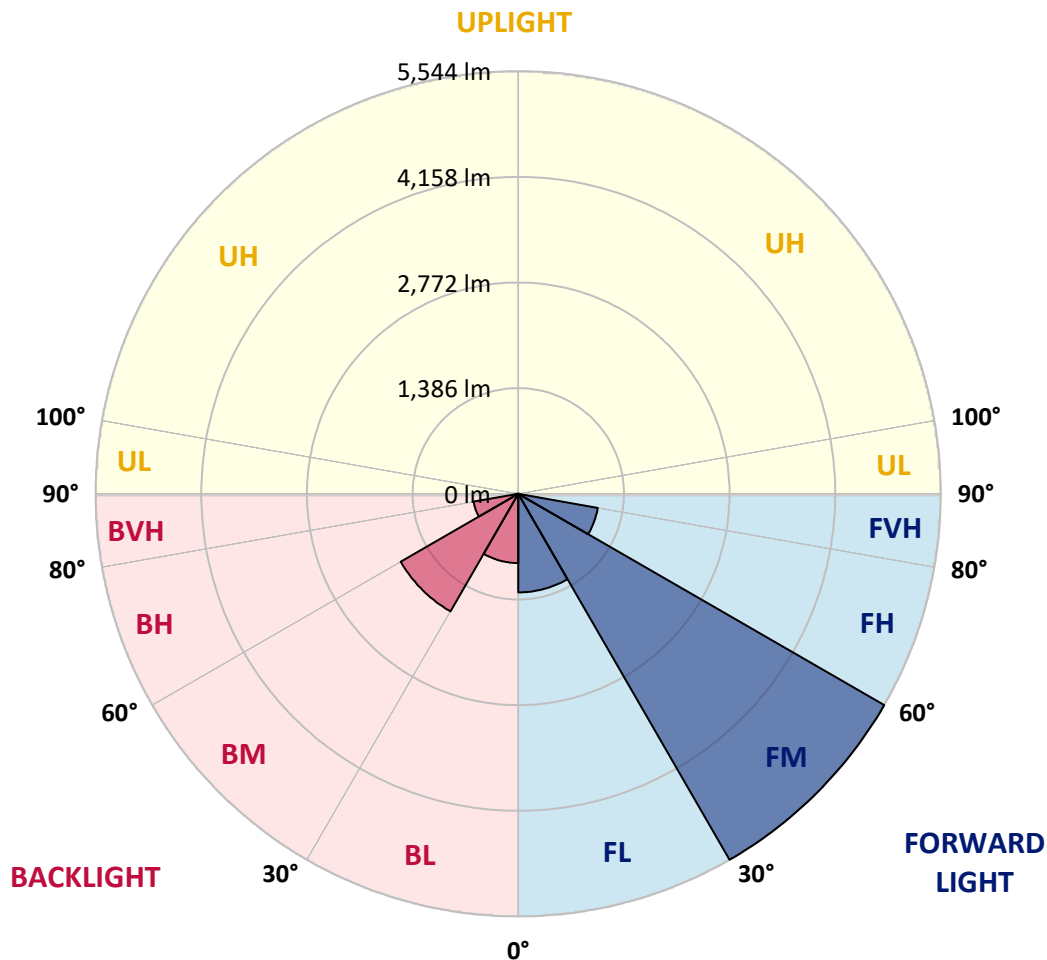
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.3	11.5			
FM (30°-60°)	5543.9	49.3			
FH (60°-80°)	1059.7	9.4			G1/1800
FVH (80°-90°)	23.8	0.2			G1/100
BL (0°-30°)	908.0	8.1	B2/1000		
BM (30°-60°)	1780.5	15.8	B2/2500		
BH (60°-80°)	595.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	35.7	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°	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9
2.5°	2735.9	2728.9	2745.7	2758.3	2773.7	2793.3	2803.1	2808.7	2857.7	2845.1	2882.9
5°	2677.1	2658.9	2671.5	2681.3	2707.9	2731.7	2758.3	2800.3	2845.1	2864.7	2910.9
7.5°	2625.2	2615.4	2612.6	2619.6	2656.1	2686.9	2733.1	2794.7	2867.5	2899.7	2926.3
10°	2539.8	2525.8	2546.8	2593.0	2602.8	2667.3	2720.5	2808.7	2871.7	2927.7	3006.1
12.5°	2502.0	2488.0	2492.2	2518.8	2587.4	2649.0	2712.1	2811.5	2944.5	2966.9	3071.9
15°	2562.2	2548.2	2552.4	2545.4	2611.2	2643.4	2742.9	2867.5	2994.9	3032.7	3144.7
17.5°	2699.5	2700.9	2682.7	2667.3	2651.8	2720.5	2789.1	2901.1	3014.5	3109.7	3193.7
20°	2961.3	2915.1	2878.7	2791.9	2768.1	2797.5	2884.3	2992.1	3094.3	3172.7	3267.9
22.5°	3162.9	3167.1	3115.3	2972.5	2920.7	2933.3	3007.5	3095.7	3207.7	3263.7	3372.9
25°	3455.5	3426.1	3370.1	3256.7	3140.5	3150.3	3204.9	3284.7	3315.5	3354.7	3473.7
27.5°	3723.0	3731.4	3620.7	3514.3	3370.1	3342.1	3440.1	3454.1	3402.3	3476.5	3517.1
30°	3994.6	3987.6	3914.8	3790.2	3648.7	3654.3	3697.7	3629.1	3557.7	3598.3	3626.3
32.5°	4276.0	4196.2	4193.4	4081.4	3973.6	3921.8	3868.6	3902.2	3791.6	3800.0	3773.4
35°	4501.4	4512.6	4448.2	4368.4	4315.2	4224.2	4078.6	4138.8	4117.8	4108.0	3993.2
37.5°	4665.2	4621.8	4654.0	4627.4	4577.0	4463.6	4312.4	4369.8	4379.6	4427.2	4294.2
40°	4799.7	4781.5	4866.9	4880.9	4845.9	4600.8	4329.2	4500.0	4647.0	4750.6	4592.4
42.5°	4864.1	4903.3	4992.9	5100.7	5022.3	4760.4	4416.0	4599.4	4927.1	5090.9	4875.3
45°	4950.9	4900.5	5033.5	5230.9	5232.3	4894.9	4500.0	4733.8	5145.5	5383.5	5068.5
47.5°	4862.7	4887.9	5025.1	5275.7	5340.1	5036.3	4726.8	4924.3	5386.3	5597.7	5247.7
50°	4665.2	4715.6	4966.3	5226.7	5421.3	5186.1	4987.3	5130.1	5608.9	5769.9	5277.1
52.5°	4459.4	4487.4	4879.5	5264.5	5457.7	5379.3	5335.9	5414.3	5880.6	5964.6	5313.5
55°	3899.4	4032.4	4592.4	5247.7	5635.5	5727.9	5694.3	5809.1	6188.6	6272.6	5512.3
56°	3640.3	3710.3	4420.2	5169.3	5670.5	5855.4	5838.5	5890.4	6352.4	6440.6	5543.1
57.5°	3161.5	3167.1	3769.2	4822.1	5538.9	5893.2	5876.4	5917.0	6320.2	6260.0	5272.9
60°	1978.4	2065.2	2565.0	3708.9	4710.0	5467.5	5562.7	5236.5	5328.9	5201.5	4102.4
62.5°	1024.9	1012.3	1344.1	2168.8	3126.5	3914.8	4003.0	3987.6	3844.8	3658.5	2679.9
65°	511.0	513.8	702.9	1073.9	1601.8	2049.8	2296.2	2322.8	1943.4	1788.0	1271.3
67.5°	371.0	385.0	505.4	656.7	754.7	844.3	1034.7	1015.1	768.7	730.9	677.7
70°	288.4	301.0	410.2	501.2	455.0	455.0	495.6	512.4	547.5	562.9	581.1
72.5°	210.0	219.8	313.6	345.8	298.2	320.6	371.0	410.2	446.6	452.2	473.2
75°	144.2	152.6	205.8	190.4	179.2	221.2	271.6	308.0	334.6	348.6	361.2
77.5°	93.8	96.6	117.6	99.4	114.8	142.8	176.4	207.2	233.8	245.0	247.8
80°	42.0	46.2	50.4	63.0	79.8	102.2	126.0	151.2	168.0	172.2	180.6
82.5°	23.8	23.8	30.8	44.8	58.8	74.2	91.0	109.2	128.8	133.0	131.6
85°	12.6	12.6	18.2	26.6	36.4	43.4	42.0	43.4	46.2	53.2	51.8
87.5°	4.2	4.2	5.6	5.6	7.0	8.4	7.0	9.8	12.6	12.6	12.6
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°	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9	2875.9
2.5°	2871.7	2884.3	2867.5	2903.9	2903.9	2896.9	2861.9	2873.1	2881.5	2881.5	2888.5
5°	2926.3	2922.1	2933.3	2889.9	2863.3	2853.5	2796.1	2768.1	2744.3	2742.9	2721.9
7.5°	2957.1	2945.9	2941.7	2909.5	2791.9	2720.5	2597.2	2525.8	2510.4	2455.8	2476.8
10°	3006.1	3027.1	3006.1	2831.1	2667.3	2503.4	2383.0	2272.4	2229.0	2194.0	2173.0
12.5°	3106.9	3097.1	2975.3	2738.7	2509.0	2314.4	2135.2	2019.0	1975.6	1944.8	1942.0
15°	3192.3	3143.3	2957.1	2593.0	2262.6	2055.4	1908.4	1825.8	1806.2	1809.0	1821.6
17.5°	3221.7	3188.1	2861.9	2441.8	2079.2	1835.6	1767.0	1754.4	1772.6	1793.6	1799.2
20°	3267.9	3214.7	2822.7	2236.0	1852.4	1698.4	1694.2	1739.0	1772.6	1803.4	1807.6
22.5°	3364.5	3230.1	2695.3	2041.4	1697.0	1657.8	1698.4	1736.2	1788.0	1813.2	1790.8
25°	3392.5	3196.5	2516.0	1807.6	1599.0	1632.6	1676.0	1727.8	1764.2	1778.2	1788.0
27.5°	3416.3	3144.7	2273.8	1652.2	1568.1	1631.2	1676.0	1719.4	1739.0	1751.6	1762.8
30°	3483.5	3129.3	2063.8	1548.5	1548.5	1603.2	1660.6	1671.8	1698.4	1713.8	1733.4
32.5°	3517.1	3022.9	1848.2	1482.7	1528.9	1617.2	1621.4	1642.4	1643.8	1656.4	1635.4
35°	3605.3	2947.3	1648.0	1435.1	1537.3	1603.2	1624.2	1611.6	1542.9	1509.3	1516.3
37.5°	3669.7	2909.5	1503.7	1429.5	1538.7	1618.6	1629.8	1534.5	1463.1	1407.1	1421.1
40°	3843.4	2815.7	1394.5	1419.7	1551.3	1635.4	1604.6	1500.9	1372.1	1314.7	1304.9
42.5°	3976.4	2748.5	1325.9	1408.5	1561.1	1659.2	1591.9	1433.7	1302.1	1248.9	1262.9
45°	4130.4	2733.1	1289.5	1411.3	1577.9	1671.8	1576.5	1381.9	1241.9	1220.9	1216.7
47.5°	4185.0	2622.4	1250.3	1387.5	1573.7	1667.6	1524.7	1342.7	1219.5	1222.3	1233.5
50°	4094.0	2509.0	1220.9	1338.5	1545.7	1629.8	1443.5	1290.9	1206.9	1241.9	1261.5
52.5°	3977.8	2392.8	1160.7	1272.7	1488.3	1570.9	1405.7	1288.1	1194.3	1183.1	1187.3
55°	4012.8	2297.6	1076.7	1183.1	1395.9	1461.7	1363.7	1261.5	1163.5	1121.5	1135.5
56°	3899.4	2199.6	1022.1	1127.1	1332.9	1391.7	1342.7	1237.7	1138.3	1110.3	1110.3
57.5°	3578.7	1870.6	950.7	1037.5	1199.9	1269.9	1302.1	1223.7	1110.3	1061.3	1062.7
60°	2639.2	1330.1	852.7	914.3	994.1	1050.1	1199.9	1184.5	1040.3	1006.7	994.1
62.5°	1627.0	971.7	782.7	806.5	847.1	893.3	1047.3	1072.5	966.1	929.7	921.3
65°	911.5	743.5	729.5	739.3	758.9	782.7	869.5	925.5	852.7	796.7	793.9
67.5°	666.5	665.1	676.3	684.7	693.1	693.1	714.1	736.5	726.7	681.9	677.7
70°	592.3	596.5	604.9	606.3	609.1	599.3	582.5	575.5	586.7	558.7	553.1
72.5°	488.6	502.6	512.4	513.8	498.4	485.8	463.4	439.6	431.2	425.6	424.2
75°	375.2	385.0	389.2	387.8	382.2	364.0	337.4	313.6	298.2	281.4	289.8
77.5°	253.4	267.4	274.4	274.4	266.0	238.0	225.4	207.2	191.8	173.6	176.4
80°	177.8	187.6	198.8	197.4	183.4	169.4	151.2	134.4	121.8	107.8	106.4
82.5°	133.0	138.6	144.2	141.4	131.6	117.6	105.0	89.6	75.6	65.8	65.8
85°	47.6	51.8	63.0	65.8	71.4	71.4	60.2	50.4	40.6	33.6	33.6
87.5°	14.0	14.0	15.4	15.4	14.0	15.4	12.6	14.0	15.4	9.8	9.8
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)