

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: P529748

Luminaire Tested: **GALN-SA4D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529748
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-SA4D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 20398 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

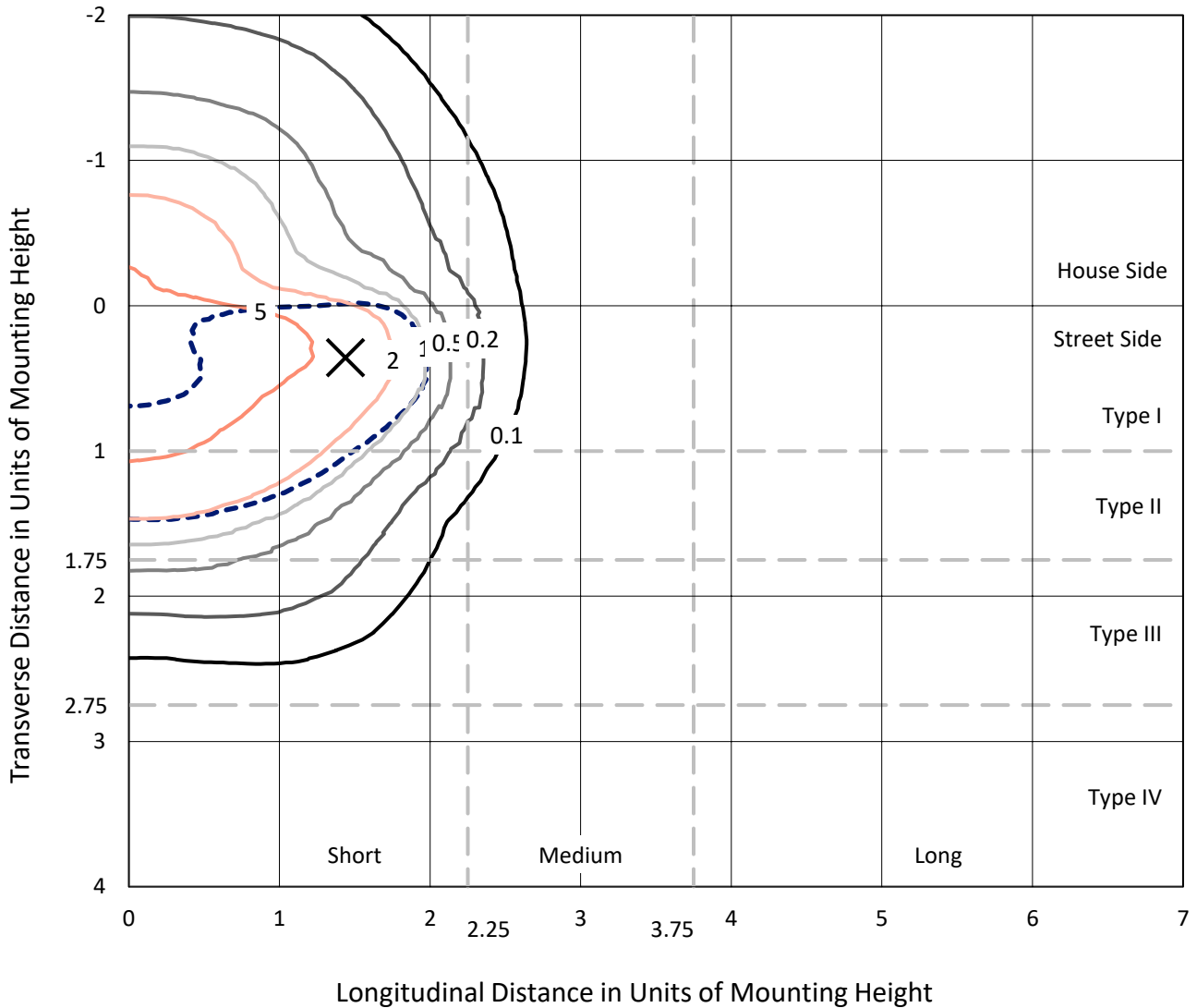
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

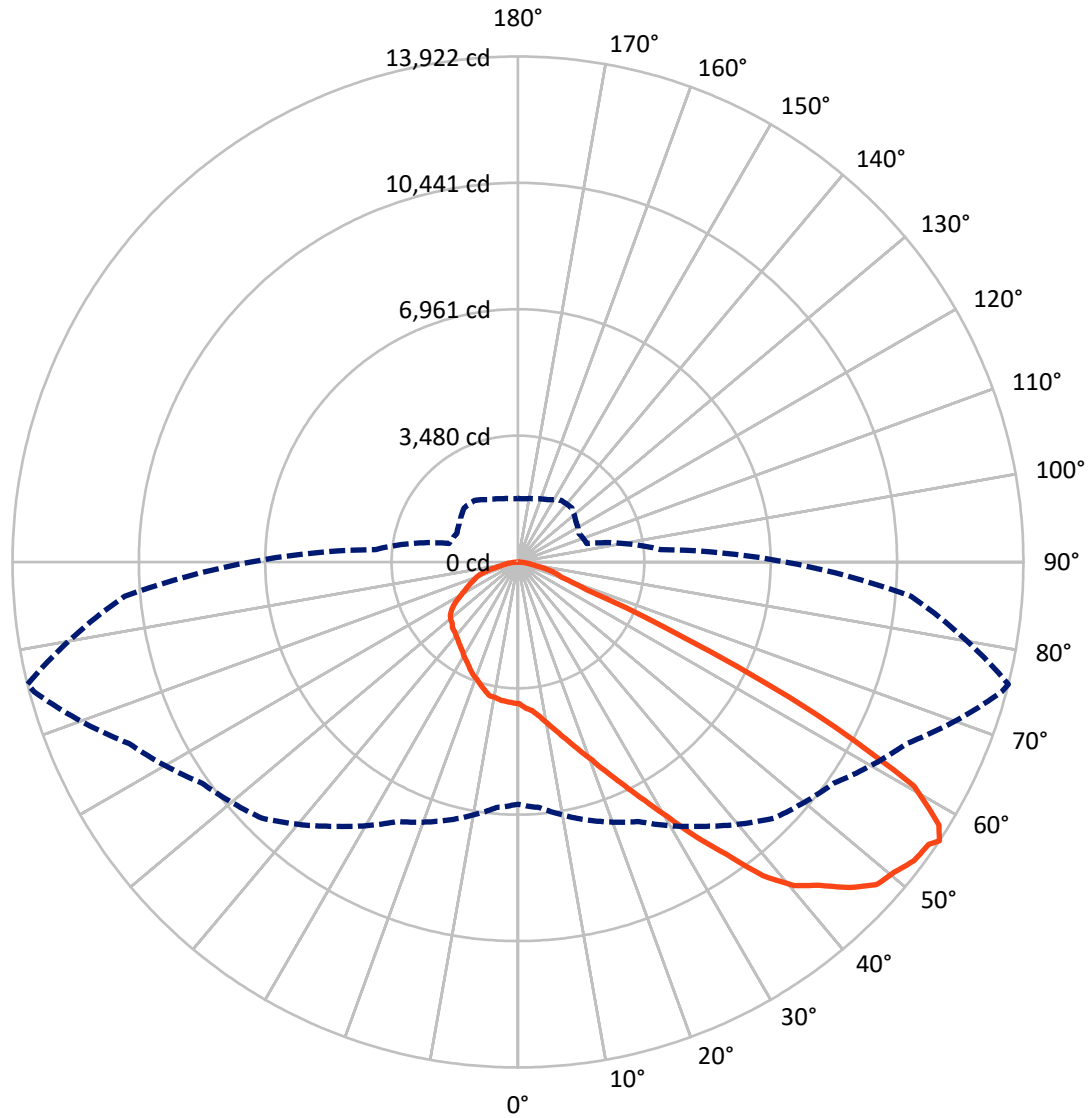
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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
House Side	Lumens	5484.4	0.0	5484.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	14913.6	0.0	14913.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	20398.0	0.0	20398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	1.9
10°-20°	1215.8	6.0
20°-30°	2126.4	10.4
30°-40°	3329.3	16.3
40°-50°	4843.1	23.7
50°-60°	5322.9	26.1
60°-70°	2375.9	11.6
70°-80°	686.2	3.4
80°-90°	111.3	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°	20398.0	100.0
0°-180°	20398.0	100.0

Coefficient of Utilization



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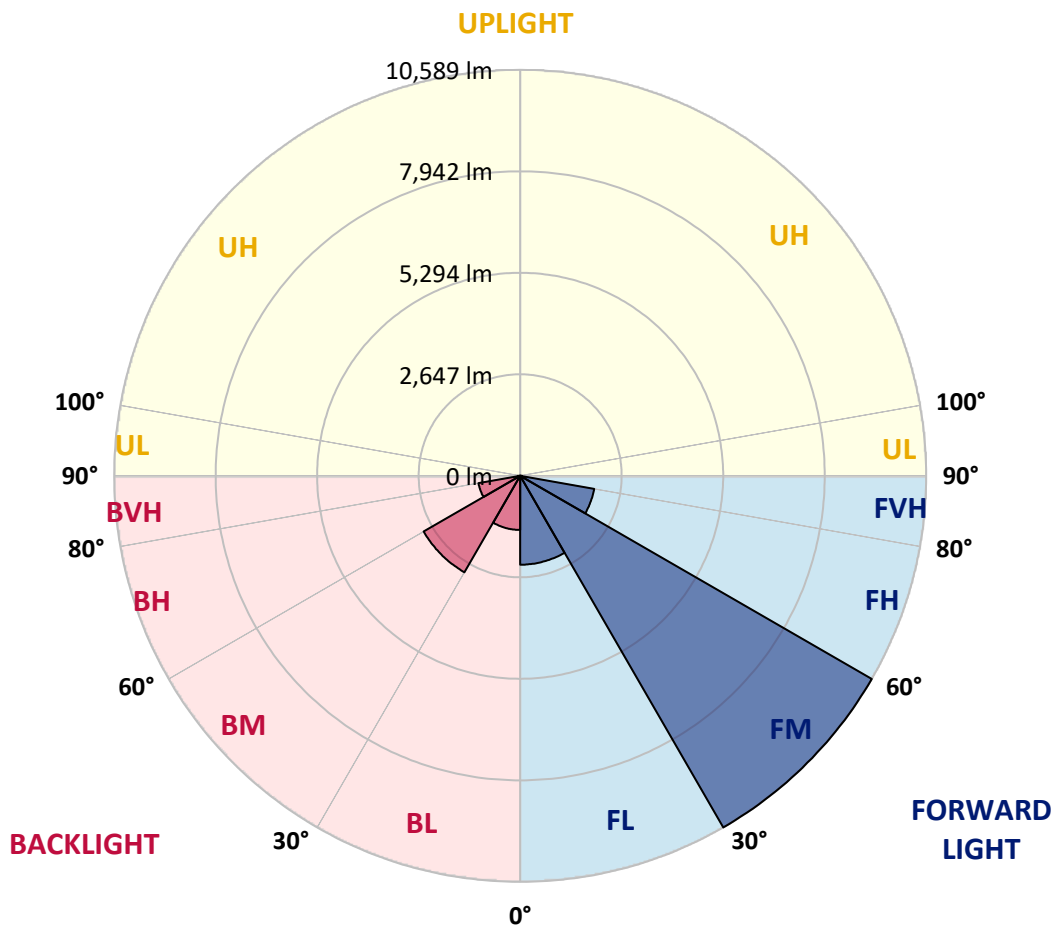
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.0	11.4			
FM (30°-60°)	10589.0	51.9			
FH (60°-80°)	1958.7	9.6			G2/5000
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	1411.2	6.9	B3/2500		
BM (30°-60°)	2906.3	14.2	B3/5000		
BH (60°-80°)	1103.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	63.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9
2.5°	4299.5	4230.8	4225.5	4207.0	4217.6	4170.0	4119.7	4053.6	3984.9	4027.2	3926.7
5°	4601.0	4508.4	4545.4	4482.0	4489.9	4426.5	4323.3	4246.6	4162.0	4111.8	4040.4
7.5°	4706.7	4714.7	4741.1	4730.5	4677.7	4677.7	4608.9	4474.1	4326.0	4296.9	4177.9
10°	4849.5	4852.2	4823.1	4831.0	4905.1	4870.7	4809.9	4751.7	4561.3	4526.9	4315.4
12.5°	4899.8	4852.2	4899.8	4942.1	5029.3	5076.9	5063.7	5021.4	4817.8	4794.0	4484.6
15°	4907.7	4878.6	4918.3	5013.5	5090.2	5291.1	5391.6	5362.5	5092.8	5095.4	4675.0
17.5°	4870.7	4910.4	4926.2	5008.2	5185.4	5373.1	5664.0	5703.6	5481.5	5447.1	4915.6
20°	4920.9	4891.8	4913.0	4987.0	5222.4	5515.9	5896.7	6158.4	5846.4	5822.6	5164.2
22.5°	5114.0	5074.3	5069.0	5116.6	5285.8	5589.9	6142.6	6613.2	6290.6	6303.9	5473.6
25°	5264.7	5285.8	5267.3	5264.7	5370.4	5701.0	6467.8	7155.3	6893.5	6816.8	5838.5
27.5°	5523.8	5574.1	5537.0	5587.3	5563.5	5867.6	6700.5	7755.6	7544.0	7440.9	6169.0
30°	5883.4	5909.9	5875.5	5875.5	5804.1	6100.3	6912.0	8382.2	8295.0	8154.8	6557.7
32.5°	6356.7	6396.4	6327.7	6288.0	6277.4	6446.7	7292.8	9001.0	9149.1	9030.1	7073.3
35°	6983.4	6959.6	6877.7	6840.6	6697.9	6978.1	7858.7	9712.3	10101.0	9889.5	7697.4
37.5°	7536.1	7499.1	7493.8	7287.5	7321.9	7551.9	8339.9	10251.7	11023.8	10963.0	8355.8
40°	8051.7	8086.1	8141.6	8025.3	7972.4	8226.2	8900.5	10664.2	11740.4	11716.6	8863.5
42.5°	8604.4	8572.6	8670.5	8572.6	8493.3	8852.9	9508.7	10949.8	12369.7	12174.1	9395.0
45°	9405.6	9305.1	9339.4	9347.4	9289.2	9421.4	9759.9	11156.0	12811.3	12790.2	9783.7
47.5°	10074.5	10077.2	10019.0	9974.1	9796.9	9929.1	10040.2	11285.6	13319.0	13284.7	9934.4
50°	10323.1	10288.7	10458.0	10555.8	10566.4	10296.7	10259.6	11357.0	13586.1	13435.4	10085.1
52.5°	9429.4	9461.1	9728.2	10309.9	10645.7	10674.8	10516.1	11505.1	13694.5	13662.8	10206.8
55°	7589.0	7742.3	8181.3	8852.9	9648.8	10524.1	10793.8	11658.4	13752.7	13726.2	10746.2
56°	6671.4	6790.4	7361.6	7887.8	8887.3	9976.7	10619.3	11822.4	13797.6	13921.9	10873.1
57.5°	5370.4	5507.9	5917.8	6515.4	7694.7	8934.9	10138.0	11621.4	13623.1	13670.7	10965.7
60°	3358.2	3371.4	3863.2	4257.2	5087.5	6298.6	7737.0	10111.6	12607.7	12539.0	9849.8
62.5°	2202.7	2205.3	2652.2	2974.8	3352.9	3630.5	4553.4	6705.8	9302.4	9180.8	7012.5
65°	1546.9	1581.3	1927.6	2358.7	2512.0	2366.6	2337.5	3535.3	5195.9	5021.4	3768.0
67.5°	1131.7	1134.4	1441.1	1903.9	2126.0	1800.7	1462.3	1726.7	2057.2	2051.9	1745.2
70°	748.3	780.1	1015.4	1422.6	1676.4	1446.4	1195.2	1234.9	1308.9	1308.9	1298.3
72.5°	436.3	465.4	621.4	901.7	941.3	904.3	946.6	1057.7	1105.3	1102.6	1089.4
75°	248.6	261.8	296.2	375.5	468.0	552.6	695.4	801.2	848.8	877.9	843.5
77.5°	145.4	153.4	174.5	214.2	243.3	298.8	378.1	452.2	515.6	507.7	513.0
80°	76.7	76.7	97.8	126.9	169.2	211.5	251.2	293.5	327.9	335.8	343.8
82.5°	45.0	47.6	63.5	92.5	121.6	150.7	193.0	222.1	253.8	256.5	261.8
85°	23.8	26.4	39.7	60.8	82.0	92.5	95.2	89.9	97.8	92.5	105.8
87.5°	7.9	7.9	13.2	10.6	10.6	13.2	15.9	15.9	21.2	21.2	21.2
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°	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9	3902.9
2.5°	3924.0	3924.0	3879.1	3794.5	3781.3	3746.9	3715.2	3712.5	3688.7	3667.6	3657.0
5°	3998.1	3916.1	3850.0	3773.3	3683.4	3641.1	3593.5	3540.6	3519.5	3540.6	3538.0
7.5°	4082.7	4014.0	3815.6	3672.8	3569.7	3527.4	3474.5	3419.0	3424.3	3424.3	3387.3
10°	4164.7	4072.1	3754.8	3572.4	3421.6	3389.9	3360.8	3382.0	3408.4	3413.7	3389.9
12.5°	4302.2	4093.3	3725.7	3471.9	3376.7	3307.9	3326.5	3384.6	3440.2	3424.3	3442.8
15°	4405.3	4111.8	3593.5	3368.8	3249.8	3281.5	3347.6	3387.3	3479.8	3469.2	3487.8
17.5°	4505.8	4122.4	3464.0	3231.3	3181.0	3268.3	3318.5	3432.2	3461.3	3524.8	3548.6
20°	4712.0	4143.5	3331.7	3146.6	3130.8	3231.3	3318.5	3371.4	3434.9	3490.4	3490.4
22.5°	4817.8	4132.9	3244.5	3035.6	3085.8	3149.3	3228.6	3318.5	3318.5	3371.4	3374.0
25°	4950.0	4090.6	3107.0	2982.7	3019.7	3080.5	3170.4	3138.7	3173.1	3173.1	3215.4
27.5°	5100.7	4000.7	2988.0	2887.5	2961.5	3027.7	3040.9	3019.7	2980.1	2974.8	2958.9
30°	5222.4	3889.7	2900.7	2855.8	2916.6	2953.6	2911.3	2866.4	2797.6	2792.3	2755.3
32.5°	5389.0	3752.2	2792.3	2776.4	2845.2	2847.8	2834.6	2765.9	2665.4	2623.1	2580.8
35°	5669.2	3672.8	2710.3	2734.1	2755.3	2747.4	2723.6	2649.5	2549.0	2530.5	2514.7
37.5°	5875.5	3614.7	2625.7	2654.8	2673.3	2683.9	2612.5	2530.5	2533.2	2496.2	2485.6
40°	6108.2	3577.7	2557.0	2570.2	2572.8	2607.2	2520.0	2480.3	2498.8	2475.0	2490.9
42.5°	6407.0	3588.2	2485.6	2475.0	2525.2	2512.0	2469.7	2416.8	2427.4	2356.0	2366.6
45°	6565.6	3659.6	2443.3	2395.7	2451.2	2448.6	2393.0	2342.8	2279.3	2141.8	2147.1
47.5°	6671.4	3678.1	2342.8	2311.1	2369.2	2403.6	2340.2	2223.8	2133.9	2036.1	2012.3
50°	6779.8	3712.5	2295.2	2229.1	2252.9	2334.9	2255.5	2144.5	2057.2	1970.0	1983.2
52.5°	6875.0	3778.6	2202.7	2104.8	2147.1	2237.0	2194.7	2059.9	1964.7	1893.3	1872.1
55°	7298.1	3926.7	2046.6	1919.7	2020.2	2133.9	2110.1	1946.2	1843.0	1806.0	1800.7
56°	7364.2	3932.0	1964.7	1856.3	1948.8	2099.5	2070.4	1895.9	1803.4	1745.2	1747.8
57.5°	7374.8	3868.5	1848.3	1798.1	1877.4	2049.3	2012.3	1856.3	1729.3	1676.4	1660.6
60°	6489.0	3019.7	1702.9	1671.2	1763.7	1895.9	1882.7	1747.8	1605.1	1544.2	1573.3
62.5°	4423.8	2213.2	1589.2	1583.9	1631.5	1761.1	1726.7	1605.1	1486.1	1446.4	1427.9
65°	2575.5	1679.1	1478.1	1457.0	1496.6	1565.4	1589.2	1462.3	1338.0	1311.5	1303.6
67.5°	1520.4	1388.2	1335.3	1301.0	1287.7	1330.1	1348.6	1274.5	1150.2	1113.2	1145.0
70°	1271.9	1234.9	1237.5	1179.3	1147.6	1118.5	1102.6	1036.5	933.4	885.8	872.6
72.5°	1097.4	1081.5	1070.9	1018.0	988.9	922.8	854.1	788.0	711.3	671.6	674.3
75°	838.2	832.9	838.2	811.8	761.5	708.7	645.2	560.6	502.4	452.2	462.7
77.5°	499.8	515.6	523.6	513.0	491.8	444.2	404.6	349.0	293.5	253.8	248.6
80°	343.8	357.0	370.2	357.0	335.8	301.4	259.1	216.8	177.2	156.0	150.7
82.5°	261.8	275.0	282.9	269.7	243.3	206.3	177.2	148.1	116.3	95.2	89.9
85°	95.2	108.4	105.8	126.9	137.5	132.2	113.7	87.3	66.1	47.6	45.0
87.5°	26.4	23.8	26.4	26.4	26.4	23.8	21.2	21.2	21.2	13.2	10.6
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)