

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: P527698

Luminaire Tested: **GALN-SA2D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11093 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

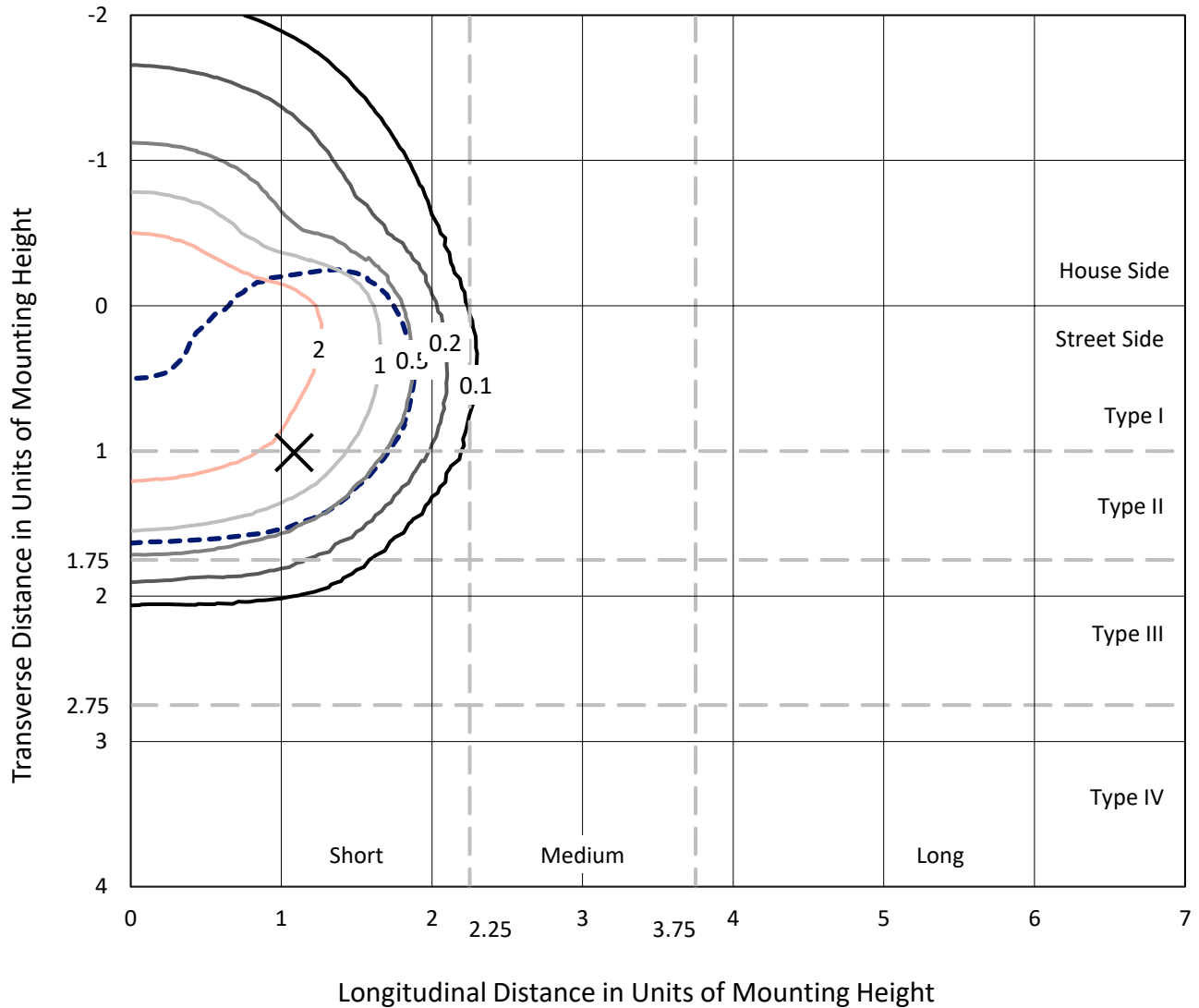
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

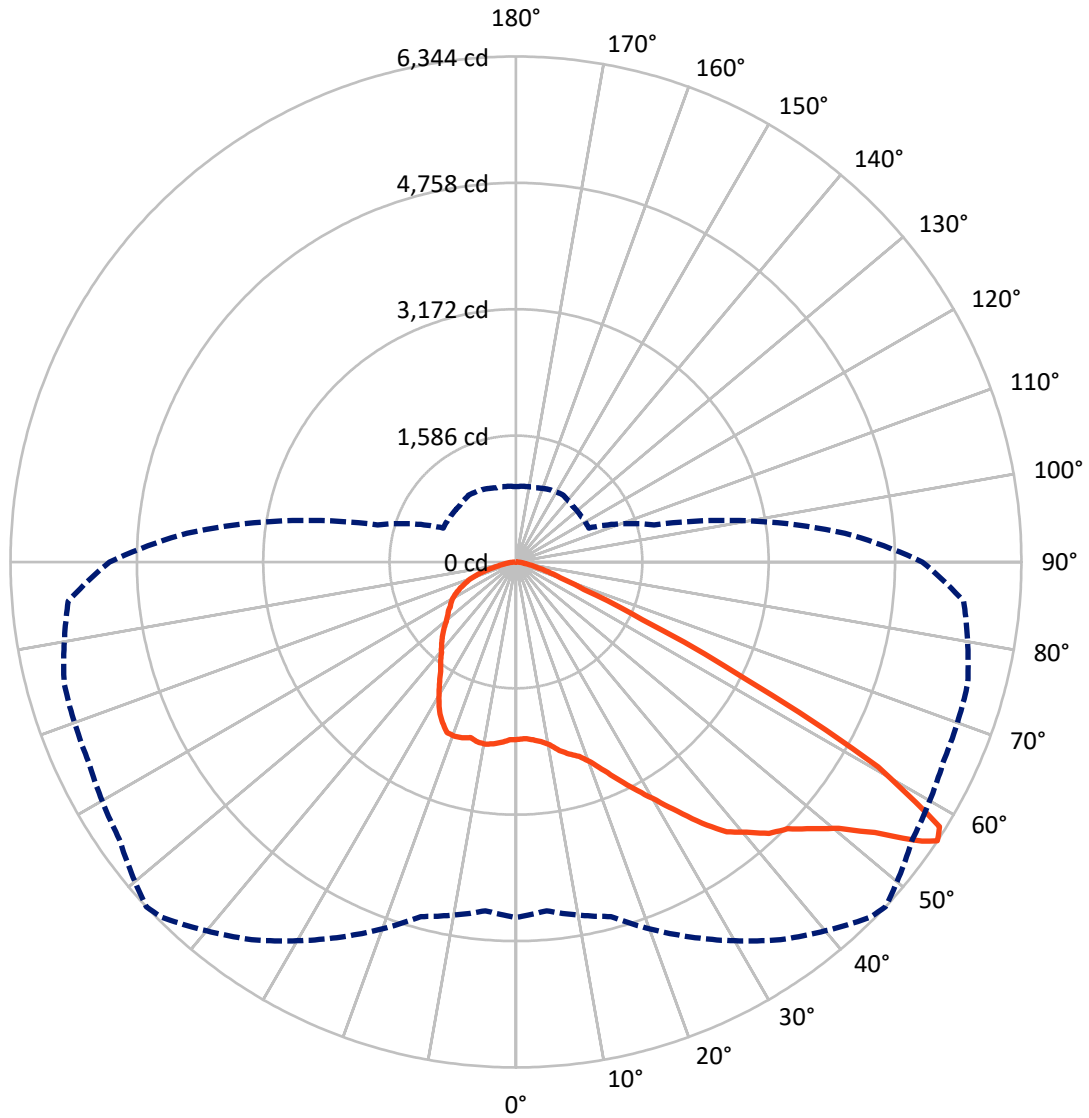
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3515.2	0.0	3515.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7577.8	0.0	7577.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	11093.0	0.0	11093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	2.0
10°-20°	684.9	6.2
20°-30°	1210.7	10.9
30°-40°	1818.4	16.4
40°-50°	2495.6	22.5
50°-60°	2973.2	26.8
60°-70°	1272.4	11.5
70°-80°	360.1	3.2
80°-90°	60.6	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°	11093.0	100.0
0°-180°	11093.0	100.0

Coefficient of Utilization

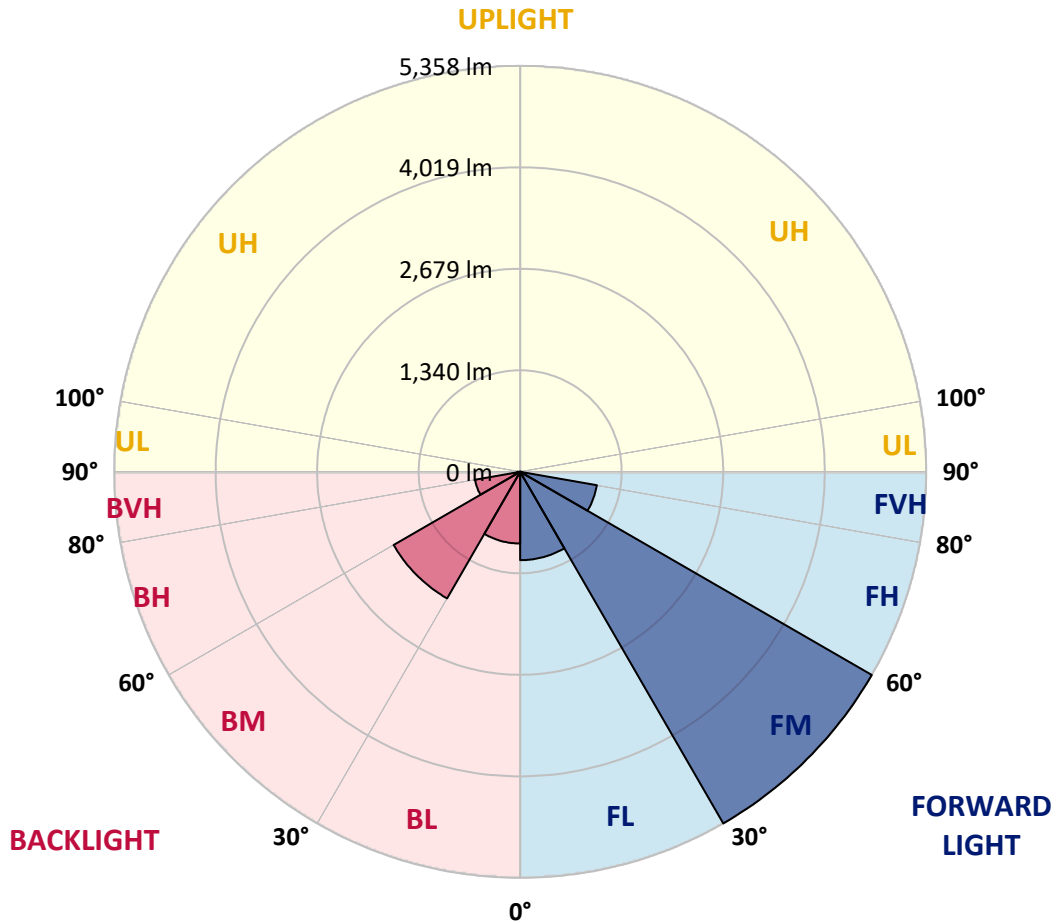


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.3	10.5			
FM (30°-60°)	5358.2	48.3			
FH (60°-80°)	1027.6	9.3			G1/1800
FVH (80°-90°)	25.7	0.2			G1/100
BL (0°-30°)	946.4	8.5	B2/1000		
BM (30°-60°)	1929.1	17.4	B2/2500		
BH (60°-80°)	604.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	34.9	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°	47°	55°	65°	75°	85°
0°	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2
2.5°	2219.8	2215.5	2212.7	2235.3	2226.8	2228.2	2219.8	2228.2	2233.9	2221.2	2239.6
5°	2215.5	2228.2	2216.9	2224.0	2242.4	2236.7	2242.4	2259.4	2255.1	2250.9	2245.2
7.5°	2255.1	2256.5	2265.0	2267.9	2273.5	2267.9	2276.3	2291.9	2287.7	2263.6	2266.4
10°	2311.7	2314.5	2316.0	2331.5	2341.4	2342.8	2332.9	2318.8	2317.4	2349.9	2327.3
12.5°	2376.8	2369.7	2386.7	2392.4	2403.7	2416.4	2429.1	2399.4	2417.8	2419.2	2392.4
15°	2471.6	2478.7	2458.9	2458.9	2463.1	2464.5	2499.9	2485.7	2482.9	2467.3	2478.7
17.5°	2613.1	2565.0	2563.5	2543.7	2540.9	2552.2	2565.0	2576.3	2614.5	2583.4	2522.5
20°	2716.3	2727.7	2686.6	2662.6	2666.8	2692.3	2679.6	2730.5	2757.4	2706.4	2647.0
22.5°	2898.8	2860.6	2870.5	2816.8	2821.0	2847.9	2846.5	2898.8	2914.4	2833.8	2747.5
25°	3021.9	3012.0	3020.5	2978.1	2983.7	3004.9	3038.9	3125.2	3099.7	3010.6	2811.1
27.5°	3201.6	3181.8	3174.7	3159.2	3153.5	3210.1	3249.7	3341.7	3323.3	3193.1	2924.3
30°	3385.5	3372.8	3379.9	3316.2	3338.8	3459.1	3470.4	3596.3	3587.8	3358.6	3050.2
32.5°	3512.8	3519.9	3532.7	3497.3	3597.7	3693.9	3732.1	3875.0	3882.1	3643.0	3293.6
35°	3718.0	3693.9	3701.0	3742.0	3788.7	3964.2	4026.4	4121.2	4180.6	3941.5	3527.0
37.5°	3846.7	3872.2	3842.5	3907.6	4029.2	4240.0	4296.6	4394.2	4456.5	4235.8	3845.3
40°	4047.6	4006.6	4027.8	4074.5	4199.0	4473.5	4457.9	4558.4	4578.2	4486.2	4142.4
42.5°	4264.1	4244.3	4214.6	4320.7	4425.4	4624.8	4656.0	4609.3	4709.7	4731.0	4566.8
45°	4523.0	4547.0	4551.3	4554.1	4646.1	4820.1	4777.6	4736.6	4852.6	5006.8	4830.0
47.5°	4763.5	4687.1	4742.3	4818.7	4948.8	4950.2	4999.8	4902.1	5025.2	5162.5	5067.7
50°	4844.1	4807.4	4880.9	5025.2	5226.1	5247.3	5253.0	5114.4	5178.0	5287.0	5149.7
52.5°	4813.0	4800.3	4988.4	5212.0	5506.2	5613.8	5642.1	5470.9	5506.2	5456.7	5330.8
55°	4664.5	4702.7	4892.2	5347.8	5799.1	6131.6	6185.3	5968.9	5743.9	5782.1	5643.5
56°	4460.7	4394.2	4606.5	5193.6	5786.4	6299.9	6343.8	6073.6	5920.8	5871.3	5640.6
57.5°	3784.5	3698.2	3976.9	4673.0	5465.2	6236.3	6268.8	6117.4	5891.1	5790.6	5229.0
60°	2215.5	2258.0	2611.6	3222.8	4216.0	5112.9	5221.9	5332.2	5180.9	4731.0	3892.0
62.5°	1069.6	1042.7	1295.9	1847.7	2569.2	3263.9	3231.3	3541.1	3710.9	3361.5	2457.4
65°	560.2	557.4	707.4	1008.7	1411.9	1714.7	1744.4	1911.3	2144.8	1731.7	1247.8
67.5°	411.7	423.0	498.0	708.8	908.3	926.7	922.4	1005.9	1028.5	870.1	766.8
70°	322.6	328.2	383.4	539.0	676.3	605.5	592.8	602.7	669.2	697.5	663.5
72.5°	233.4	239.1	285.8	363.6	423.0	413.1	421.6	476.8	558.8	588.5	553.2
75°	155.6	159.9	185.3	222.1	250.4	270.2	285.8	349.4	425.8	442.8	425.8
77.5°	107.5	111.8	128.7	157.0	159.9	172.6	178.3	208.0	254.7	275.9	264.6
80°	60.8	60.8	69.3	80.6	99.0	116.0	118.8	142.9	164.1	178.3	181.1
82.5°	28.3	29.7	36.8	49.5	65.1	80.6	83.5	99.0	114.6	128.7	133.0
85°	14.1	15.6	21.2	29.7	39.6	48.1	46.7	48.1	50.9	48.1	49.5
87.5°	4.2	4.2	5.7	7.1	5.7	7.1	7.1	8.5	9.9	11.3	12.7
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°	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2
2.5°	2241.0	2245.2	2216.9	2243.8	2233.9	2232.5	2252.3	2249.5	2256.5	2253.7	2236.7
5°	2242.4	2232.5	2262.2	2235.3	2248.1	2274.9	2256.5	2299.0	2277.8	2291.9	2260.8
7.5°	2286.3	2289.1	2283.4	2294.7	2289.1	2301.8	2291.9	2301.8	2284.8	2286.3	2314.5
10°	2324.5	2316.0	2325.9	2311.7	2321.6	2317.4	2294.7	2287.7	2293.3	2286.3	2304.6
12.5°	2395.2	2379.6	2372.6	2355.6	2344.3	2301.8	2266.4	2246.6	2273.5	2277.8	2269.3
15°	2467.3	2468.8	2436.2	2398.0	2327.3	2263.6	2272.1	2279.2	2279.2	2290.5	2269.3
17.5°	2512.6	2512.6	2482.9	2406.5	2334.4	2297.6	2289.1	2266.4	2246.6	2243.8	2242.4
20°	2591.8	2567.8	2499.9	2405.1	2331.5	2314.5	2250.9	2197.1	2156.1	2141.9	2140.5
22.5°	2682.4	2621.5	2526.8	2407.9	2327.3	2303.2	2184.4	2103.7	2030.2	1999.1	2003.3
25°	2765.9	2668.2	2542.3	2395.2	2311.7	2195.7	2062.7	1951.0	1874.6	1849.1	1836.4
27.5°	2823.9	2717.8	2542.3	2406.5	2253.7	2075.5	1939.6	1796.7	1730.3	1713.3	1716.1
30°	2901.7	2780.0	2586.2	2382.5	2137.7	1919.8	1757.1	1663.8	1624.1	1610.0	1619.9
32.5°	3084.2	2942.7	2647.0	2324.5	2000.5	1764.2	1632.6	1580.3	1522.3	1494.0	1484.1
35°	3282.2	3096.9	2706.4	2226.8	1846.3	1622.7	1540.7	1492.6	1423.2	1392.1	1397.8
37.5°	3562.4	3295.0	2710.7	2065.5	1679.3	1543.5	1468.5	1393.5	1336.9	1288.8	1274.7
40°	3940.1	3565.2	2700.8	1895.8	1544.9	1450.1	1395.0	1301.6	1237.9	1204.0	1211.0
42.5°	4272.6	3882.1	2659.7	1703.4	1423.2	1386.5	1324.2	1232.3	1170.0	1134.6	1131.8
45°	4552.7	4115.5	2581.9	1539.3	1321.4	1315.7	1243.6	1172.8	1123.3	1090.8	1104.9
47.5°	4811.6	4303.7	2464.5	1375.1	1228.0	1239.3	1170.0	1126.1	1095.0	1065.3	1063.9
50°	4905.0	4300.9	2361.2	1239.3	1153.0	1147.4	1144.5	1097.9	1065.3	1039.8	1051.2
52.5°	5060.6	4349.0	2249.5	1146.0	1085.1	1086.5	1096.4	1062.5	1025.7	1010.1	1024.3
55°	5284.1	4356.0	2003.3	1037.0	1028.5	1038.4	1038.4	1015.8	984.7	971.9	964.9
56°	5101.6	4145.2	1796.7	1008.7	1000.2	1000.2	1027.1	1001.6	963.5	953.5	945.1
57.5°	4705.5	3631.7	1503.9	974.8	962.0	981.8	996.0	969.1	933.7	919.6	928.1
60°	3245.5	2457.4	1130.4	901.2	901.2	933.7	945.1	905.4	889.9	888.5	877.2
62.5°	1894.4	1431.7	884.2	834.7	837.5	864.4	872.9	850.3	830.5	854.5	865.8
65°	1004.5	854.5	758.3	764.0	765.4	786.6	823.4	822.0	820.6	827.6	829.0
67.5°	727.2	710.2	689.0	683.3	686.2	701.7	738.5	766.8	765.4	748.4	735.7
70°	648.0	623.9	611.2	612.6	601.3	619.7	649.4	667.8	635.2	615.4	606.9
72.5°	539.0	531.9	523.5	524.9	502.2	498.0	464.0	464.0	455.6	449.9	459.8
75°	411.7	408.9	413.1	406.0	382.0	356.5	336.7	318.3	290.0	278.7	273.0
77.5°	260.3	268.8	278.7	263.1	253.2	234.9	215.0	196.7	174.0	161.3	161.3
80°	176.8	183.9	191.0	188.2	176.8	159.9	144.3	124.5	108.9	99.0	97.6
82.5°	134.4	140.1	150.0	138.6	127.3	113.2	100.4	86.3	72.2	60.8	60.8
85°	48.1	55.2	60.8	66.5	70.7	72.2	62.2	50.9	41.0	32.5	31.1
87.5°	12.7	14.1	15.6	14.1	14.1	14.1	15.6	14.1	12.7	9.9	9.9
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)