

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: P318527

Luminaire Tested: **GLEON-SA3C-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15877 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

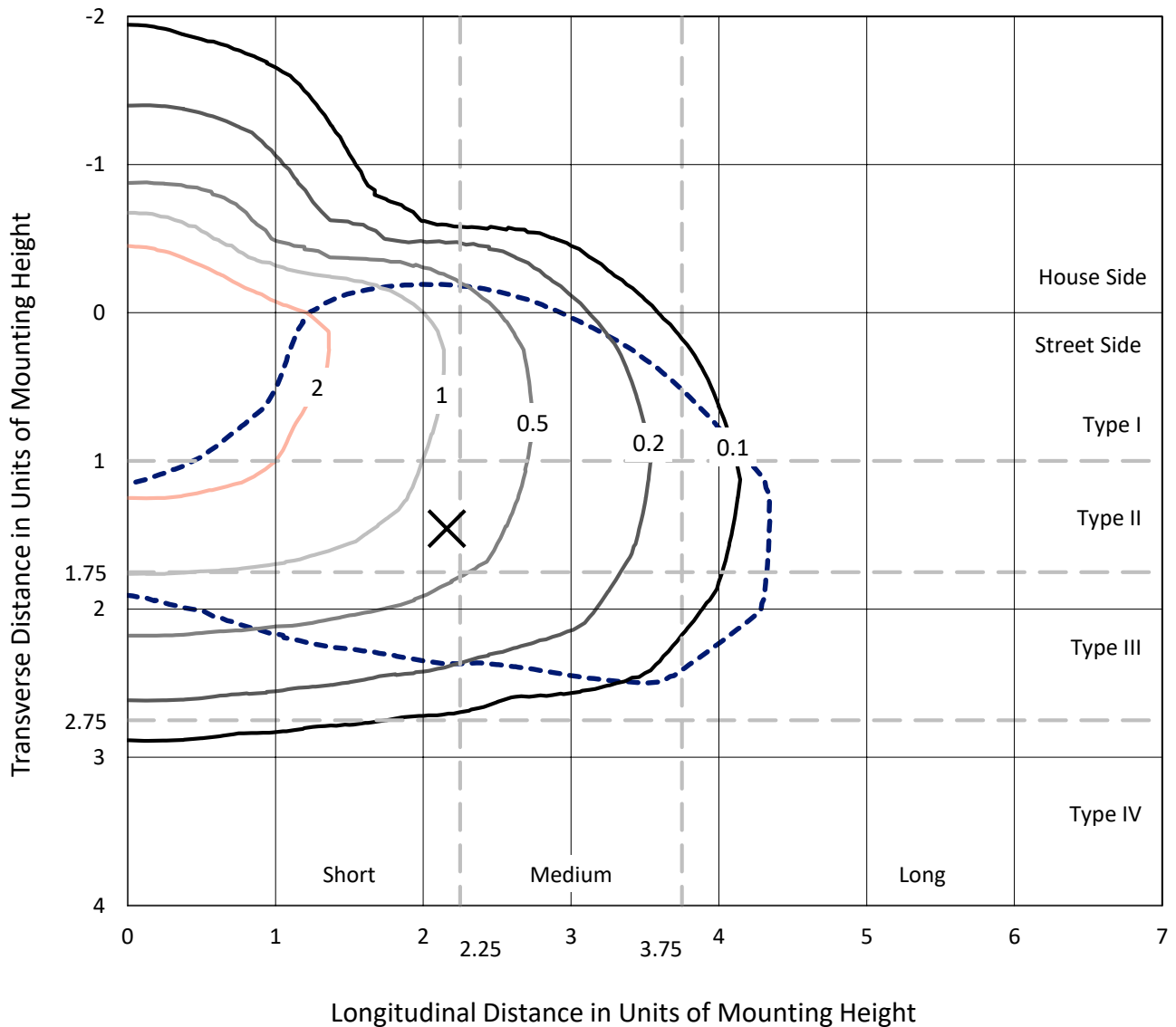
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

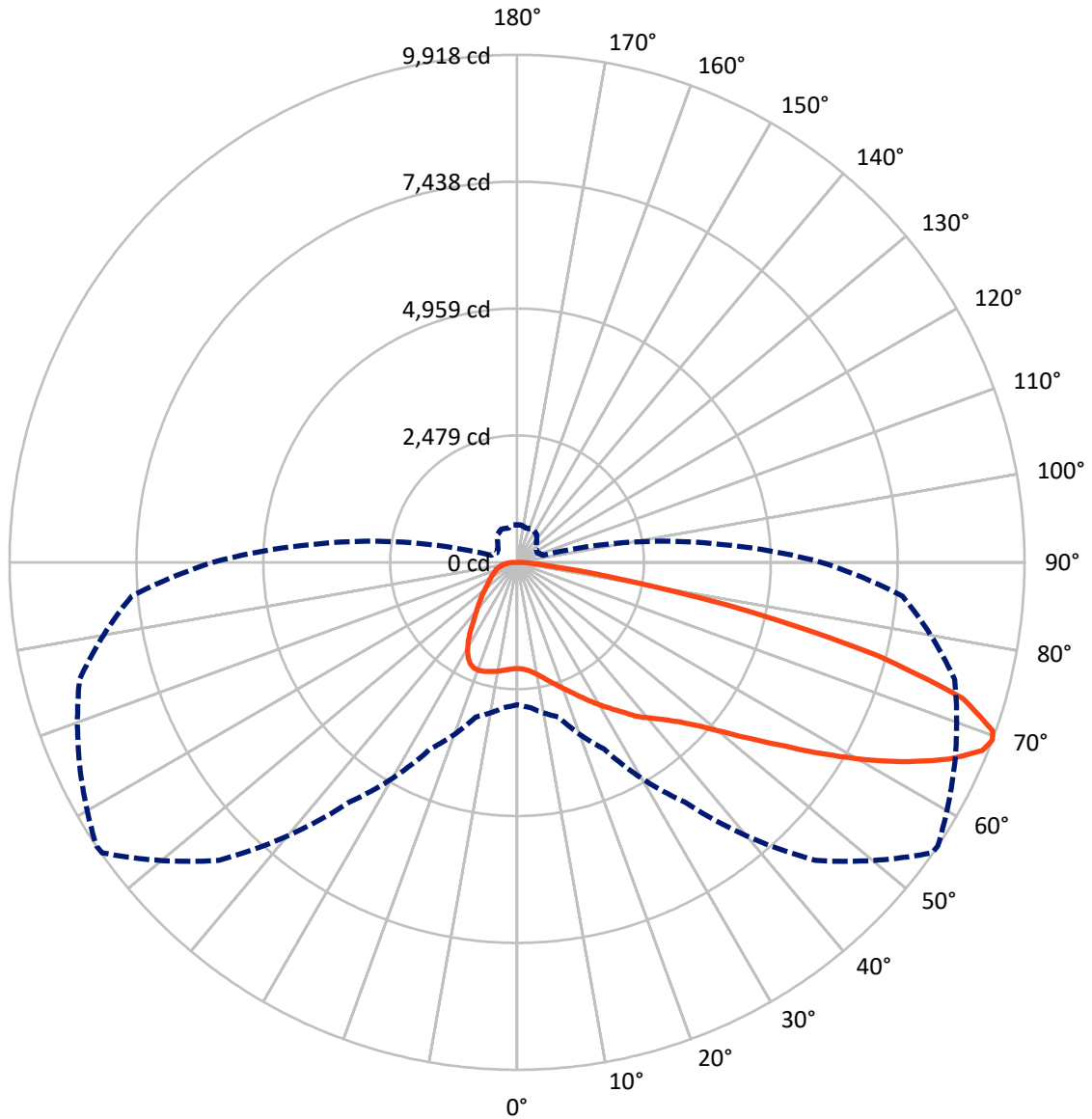
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3535.8	0.0	3535.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12341.2	0.0	12341.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	15877.0	0.0	15877.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.3
10°-20°	655.5	4.1
20°-30°	1144.3	7.2
30°-40°	1643.8	10.4
40°-50°	2274.9	14.3
50°-60°	3333.1	21.0
60°-70°	4063.7	25.6
70°-80°	2246.6	14.2
80°-90°	311.2	2.0
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°	15877.0	100.0
0°-180°	15877.0	100.0



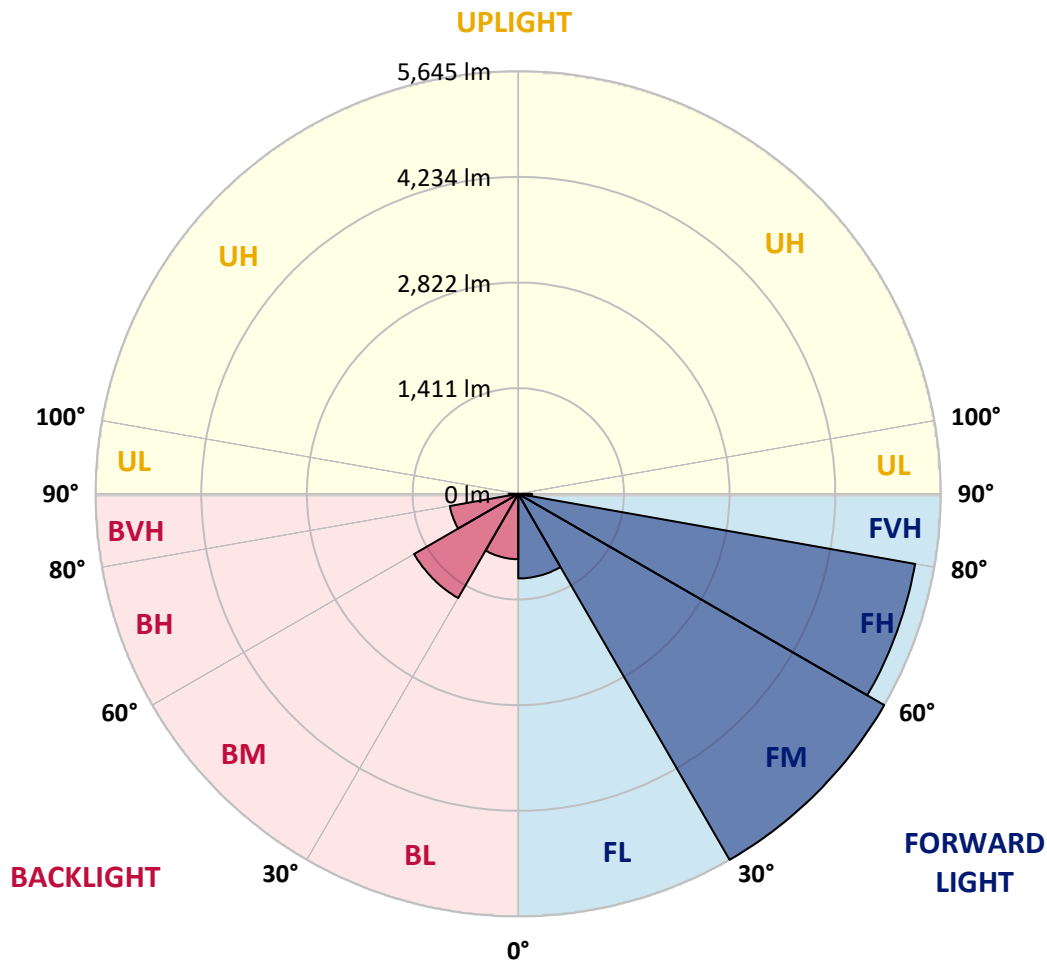
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.0	7.1			
FM (30°-60°)	5644.9	35.6			
FH (60°-80°)	5383.1	33.9			G3/7500
FVH (80°-90°)	183.3	1.2			G2/225
BL (0°-30°)	873.8	5.5	B2/1000		
BM (30°-60°)	1606.9	10.1	B2/2500		
BH (60°-80°)	927.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	127.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7
2.5°	2088.8	2091.0	2089.4	2093.7	2088.8	2092.1	2089.4	2089.4	2087.7	2082.8	2077.3
5°	2121.6	2126.0	2123.3	2127.6	2121.6	2122.7	2117.8	2117.8	2112.9	2102.5	2091.5
7.5°	2173.0	2178.0	2175.8	2180.1	2171.9	2171.9	2165.4	2164.8	2155.0	2138.0	2125.5
10°	2234.3	2240.9	2238.7	2245.2	2238.7	2240.9	2234.3	2234.3	2221.2	2197.1	2181.2
12.5°	2323.4	2331.7	2325.6	2325.1	2322.4	2326.7	2321.3	2320.2	2308.1	2275.3	2253.4
15°	2442.7	2451.4	2438.9	2437.8	2422.4	2420.8	2420.8	2419.2	2411.5	2372.1	2336.0
17.5°	2580.0	2582.7	2571.8	2554.3	2534.6	2522.0	2520.3	2524.7	2524.7	2478.8	2421.4
20°	2714.5	2719.4	2710.7	2691.0	2665.8	2647.2	2634.1	2642.9	2642.3	2587.6	2506.1
22.5°	2861.1	2872.6	2859.5	2834.3	2804.8	2784.0	2761.0	2768.7	2769.2	2701.9	2589.3
25°	3050.9	3040.5	3032.3	2996.7	2954.6	2933.3	2912.0	2919.6	2917.4	2825.0	2675.1
27.5°	3218.8	3221.0	3210.1	3172.3	3123.6	3076.6	3075.5	3080.4	3072.2	2953.0	2756.1
30°	3414.1	3415.2	3399.8	3365.9	3312.9	3252.2	3237.9	3246.2	3228.7	3074.4	2841.4
32.5°	3608.2	3613.7	3596.7	3555.7	3513.1	3439.2	3410.8	3416.3	3372.5	3198.6	2929.5
35°	3778.3	3786.0	3780.5	3753.2	3706.7	3643.2	3609.3	3606.0	3551.9	3350.6	3046.0
37.5°	3951.7	3958.8	3952.8	3929.8	3911.2	3844.0	3825.9	3825.9	3731.8	3506.0	3194.2
40°	4130.0	4141.0	4133.9	4102.1	4086.3	4055.6	4012.4	4002.0	3900.3	3692.5	3435.9
42.5°	4295.8	4310.0	4338.4	4319.8	4287.5	4291.9	4205.0	4199.5	4125.1	3968.1	3739.5
45°	4530.9	4551.7	4599.9	4585.6	4579.1	4555.0	4451.6	4446.7	4418.3	4339.0	4116.4
47.5°	4787.5	4815.9	4902.9	4905.6	4976.2	4930.8	4790.2	4773.2	4779.8	4783.1	4576.3
50°	5023.7	5054.9	5197.7	5264.9	5431.2	5441.1	5216.3	5201.0	5226.7	5302.1	5112.4
52.5°	5212.4	5251.8	5430.1	5638.0	5922.9	6003.9	5740.8	5729.3	5748.5	5878.6	5718.4
55°	5350.8	5393.5	5587.7	5966.1	6421.2	6564.0	6344.6	6333.7	6345.7	6511.5	6377.4
57.5°	5383.1	5393.5	5675.2	6187.1	6841.8	7184.7	7083.6	7061.7	7002.6	7147.0	7104.9
60°	5231.6	5273.2	5603.0	6264.8	7167.2	7796.8	7855.9	7828.5	7662.8	7780.9	7747.0
62.5°	4924.2	4998.6	5333.3	6146.6	7294.7	8296.7	8613.4	8580.6	8295.1	8371.6	8208.6
65°	4422.1	4453.8	4805.5	5739.2	7132.8	8616.7	9288.9	9272.5	8913.1	8793.3	8294.0
67.5°	3524.0	3583.6	3882.3	4887.6	6470.4	8578.9	9811.2	9809.6	9316.8	8949.8	7991.5
69°	2784.0	2845.8	3130.2	4026.1	5725.5	8233.8	9898.7	9917.9	9430.5	8854.6	7559.4
70°	2219.5	2291.2	2486.4	3391.1	5064.2	7778.7	9826.0	9860.4	9408.6	8697.6	7160.7
72.5°	944.6	1002.6	1141.5	1748.1	3086.4	5808.6	8984.2	9114.4	8901.6	7960.3	5918.0
75°	412.4	430.5	493.3	712.7	1370.1	3161.4	7038.2	7278.8	7611.4	6728.6	4408.4
77.5°	301.9	309.6	344.0	418.4	614.8	1194.0	4526.0	4666.0	5489.2	4896.3	2704.1
80°	233.5	239.0	265.8	307.4	401.5	483.0	2064.2	2184.5	3086.4	2514.9	1126.2
82.5°	186.0	189.8	208.4	226.4	277.3	292.6	685.3	760.3	1139.3	694.6	298.1
85°	172.8	177.2	183.8	165.2	177.8	171.7	296.4	310.1	344.0	272.9	124.7
87.5°	78.2	92.4	182.1	128.5	94.6	75.5	121.4	126.9	142.8	143.3	55.2
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°	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7	2075.7
2.5°	2080.6	2079.0	2081.7	2075.1	2083.3	2082.8	2080.1	2081.1	2086.6	2086.1	2086.6
5°	2093.2	2092.1	2095.4	2090.4	2100.3	2103.6	2104.1	2109.0	2115.1	2116.7	2116.7
7.5°	2124.9	2124.9	2126.5	2120.0	2126.5	2126.0	2123.3	2128.2	2134.2	2134.7	2134.2
10°	2179.6	2180.1	2177.4	2160.5	2155.0	2140.2	2126.5	2127.1	2134.7	2140.8	2142.4
12.5°	2248.5	2246.3	2234.3	2203.1	2180.1	2150.1	2135.8	2135.3	2143.0	2147.9	2149.5
15°	2327.3	2321.3	2290.1	2239.2	2198.7	2169.2	2146.2	2140.8	2136.4	2130.9	2131.5
17.5°	2401.7	2388.0	2336.0	2265.5	2222.8	2183.4	2139.1	2103.6	2079.0	2064.7	2060.4
20°	2477.1	2450.3	2375.4	2290.1	2235.9	2164.3	2079.0	2006.8	1961.9	1941.1	1937.3
22.5°	2546.1	2502.8	2412.1	2315.8	2225.5	2099.7	1965.7	1860.7	1798.4	1770.5	1772.7
25°	2613.3	2553.2	2450.3	2333.8	2173.0	1986.0	1808.2	1679.1	1606.9	1575.8	1574.7
27.5°	2672.4	2604.0	2491.9	2319.1	2075.1	1824.1	1621.7	1495.9	1435.7	1408.9	1404.6
30°	2740.2	2668.0	2547.2	2262.7	1931.8	1637.0	1439.6	1351.0	1308.3	1281.5	1276.6
32.5°	2822.8	2755.0	2592.5	2160.5	1748.6	1441.8	1297.4	1235.6	1196.7	1166.6	1161.2
35°	2943.1	2869.9	2604.0	2013.9	1547.3	1287.5	1192.9	1129.5	1076.9	1038.1	1034.3
37.5°	3094.1	3013.7	2577.8	1824.1	1352.1	1187.4	1105.9	1027.7	959.4	904.7	895.9
40°	3311.8	3190.4	2505.0	1605.3	1208.2	1110.3	1021.2	932.0	847.2	783.2	770.7
42.5°	3573.2	3397.7	2393.5	1387.6	1102.7	1032.1	936.9	826.4	745.5	700.1	693.5
45°	3905.8	3613.2	2238.7	1197.3	998.7	953.9	846.1	744.4	694.1	660.7	655.2
47.5°	4285.4	3854.9	2076.2	1042.5	910.7	880.6	773.4	707.8	667.8	641.6	636.7
50°	4751.9	4127.8	1903.9	915.6	822.1	792.5	738.9	687.5	655.8	635.6	630.6
52.5°	5278.1	4435.8	1779.8	815.5	748.8	727.4	720.9	676.6	650.9	635.6	630.6
55°	5844.7	4749.2	1645.8	731.3	685.3	691.3	708.8	677.7	660.2	641.6	634.5
57.5°	6411.9	5073.0	1496.5	660.2	635.0	664.5	700.6	679.9	665.1	647.0	640.5
60°	6860.4	5278.1	1265.1	600.6	595.1	635.0	681.0	663.5	644.3	644.9	643.8
62.5°	7069.9	5267.1	1009.7	547.5	555.2	595.1	649.2	637.7	621.9	643.2	644.9
65°	6952.3	5004.6	786.0	499.4	512.5	553.5	616.4	625.2	630.6	671.7	677.1
67.5°	6458.9	4493.7	608.8	457.3	473.7	525.1	619.7	681.0	688.1	731.3	730.7
69°	5948.6	4014.6	528.9	435.4	454.5	532.2	662.4	716.5	689.7	735.6	729.1
70°	5520.9	3635.6	486.2	420.6	445.8	544.8	690.8	716.0	681.5	720.9	709.9
72.5°	4252.0	2615.5	412.4	393.3	416.2	521.2	699.0	700.1	662.4	670.0	651.4
75°	2916.3	1652.9	359.9	356.1	371.4	469.8	672.7	668.9	612.6	601.6	586.3
77.5°	1608.0	839.6	305.7	320.5	330.9	416.2	611.5	606.0	559.5	536.6	531.1
80°	620.2	367.6	258.2	285.0	291.5	360.4	536.0	531.1	492.3	462.7	454.5
82.5°	234.1	192.5	213.3	246.7	244.5	297.5	454.0	451.2	413.5	370.3	357.2
85°	108.3	115.4	169.0	203.5	187.6	220.4	363.2	368.1	322.2	270.7	270.7
87.5°	45.9	64.5	119.8	153.7	126.3	148.8	266.4	254.3	233.5	161.9	152.1
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)