

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: P323949

Luminaire Tested: **GLEON-SA5A-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13897 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

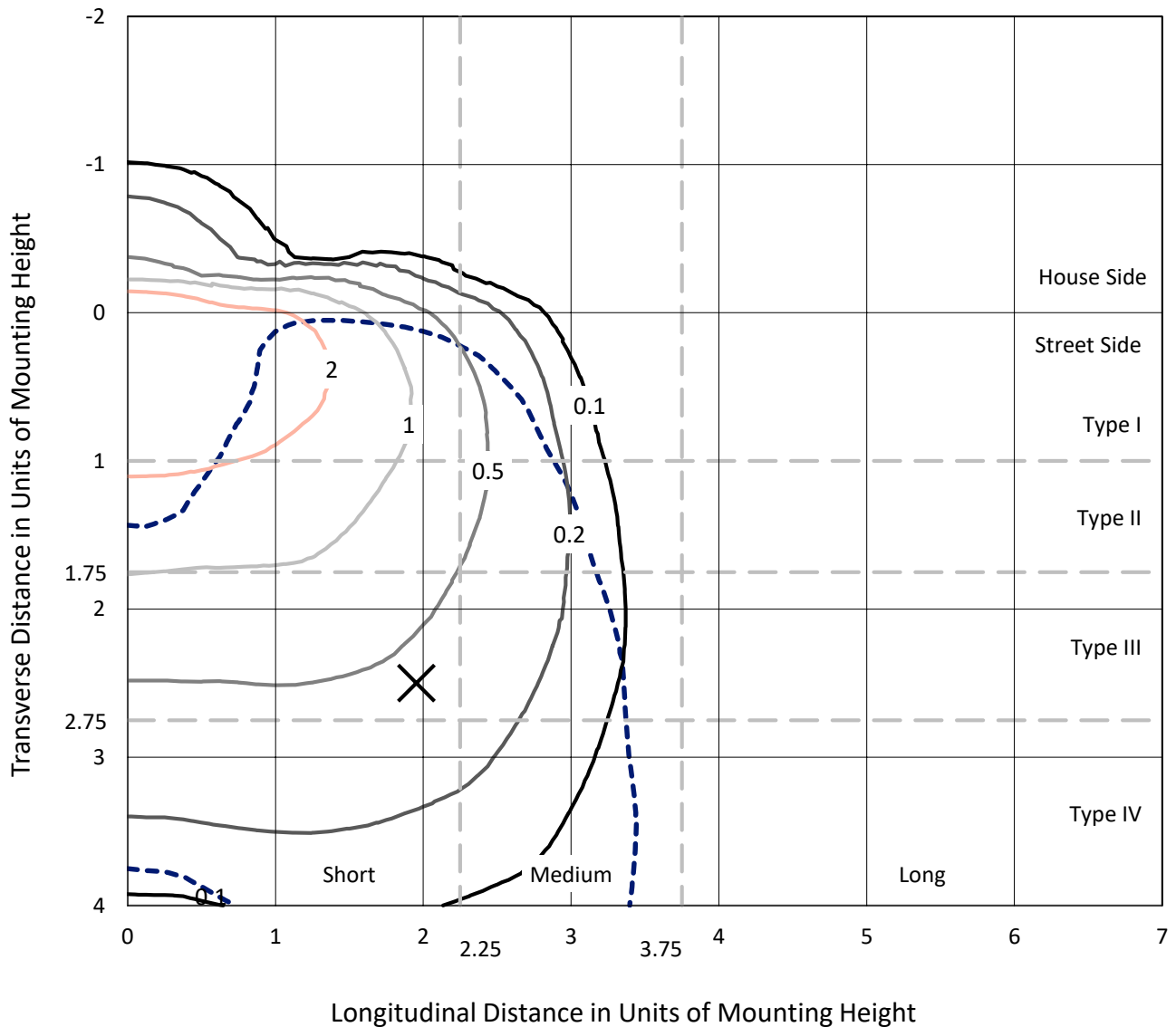
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

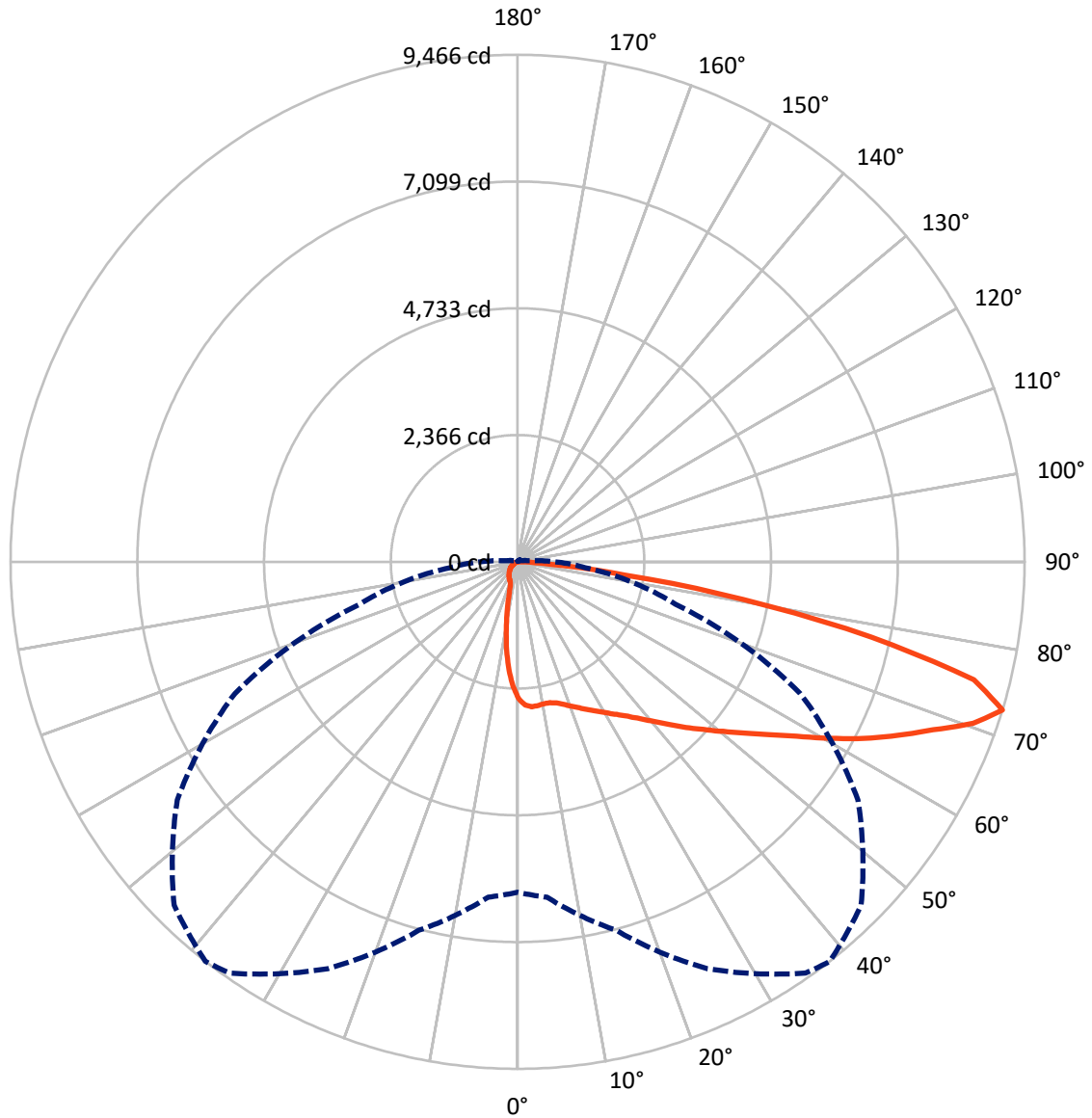
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.5	0.0	1169.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12727.5	0.0	12727.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	13897.0	0.0	13897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	1.6
10°-20°	532.5	3.8
20°-30°	847.0	6.1
30°-40°	1273.4	9.2
40°-50°	1942.6	14.0
50°-60°	2745.6	19.8
60°-70°	3443.8	24.8
70°-80°	2575.0	18.5
80°-90°	319.3	2.3
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°	13897.0	100.0
0°-180°	13897.0	100.0

Coefficient of Utilization

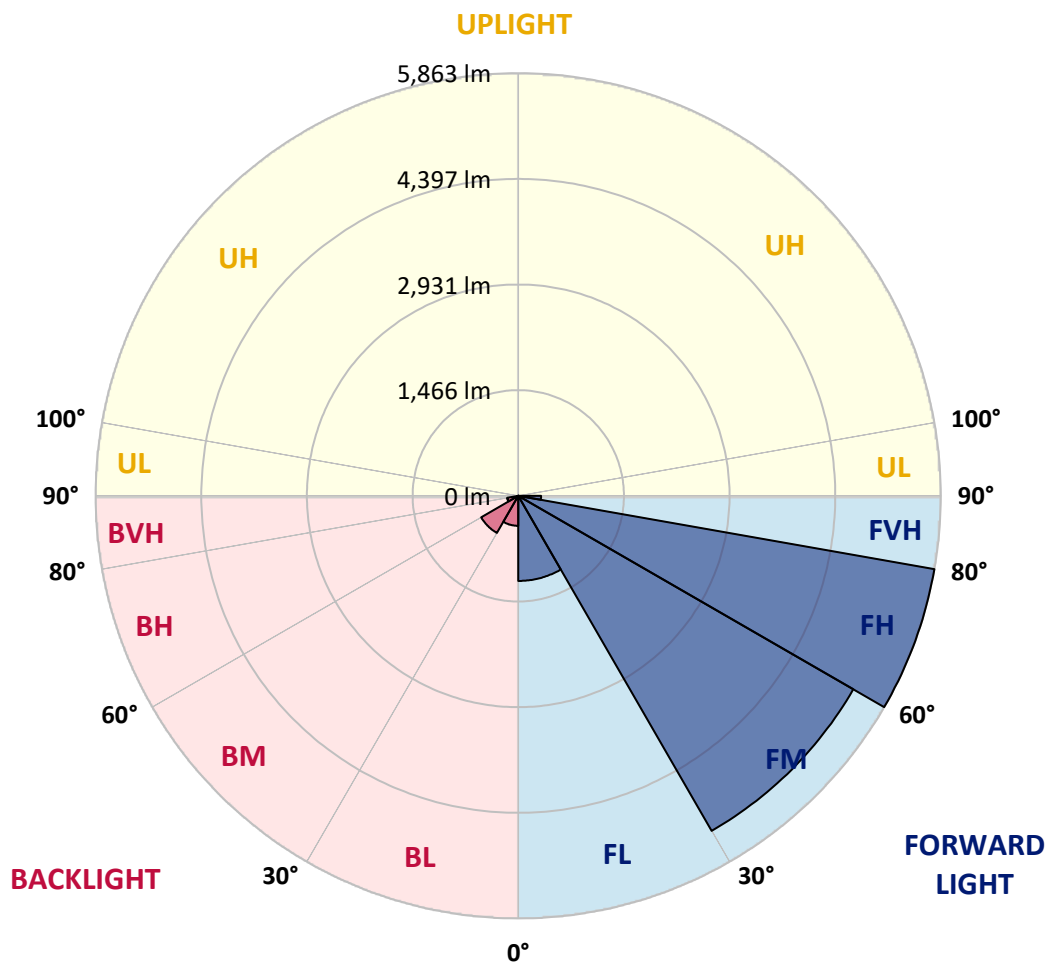


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1180.9	8.5			
FM (30°-60°)	5367.6	38.6			
FH (60°-80°)	5862.6	42.2			G3/7500
FVH (80°-90°)	316.3	2.3			G3/500
BL (0°-30°)	416.4	3.0	B1/500		
BM (30°-60°)	593.9	4.3	B1/1000		
BH (60°-80°)	156.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6
2.5°	2712.6	2713.2	2706.8	2696.4	2683.2	2676.2	2664.7	2646.2	2626.6	2591.4	2553.3
5°	2768.0	2768.0	2759.9	2746.1	2724.7	2718.4	2696.4	2667.0	2626.6	2569.5	2505.4
7.5°	2762.2	2763.4	2752.4	2738.0	2716.6	2710.9	2684.3	2651.4	2601.2	2531.9	2450.0
10°	2732.2	2735.1	2726.4	2719.5	2699.9	2693.6	2668.7	2635.8	2585.6	2511.7	2417.7
12.5°	2701.6	2704.5	2707.4	2713.8	2701.6	2699.3	2679.7	2652.0	2604.1	2527.3	2421.1
15°	2682.0	2687.8	2708.6	2733.4	2736.3	2734.0	2721.3	2695.3	2646.8	2567.2	2446.0
17.5°	2682.0	2691.2	2734.5	2781.9	2798.6	2800.3	2789.4	2753.0	2695.3	2609.9	2469.0
20°	2704.5	2717.2	2784.7	2851.7	2879.4	2879.4	2858.0	2807.2	2739.7	2648.5	2484.6
22.5°	2762.2	2779.0	2863.8	2941.1	2970.6	2964.2	2935.4	2861.5	2785.9	2692.4	2504.2
25°	2875.9	2888.6	2976.9	3054.8	3072.7	3058.3	3021.9	2927.3	2844.8	2751.8	2540.0
27.5°	3022.5	3024.3	3115.4	3181.2	3170.3	3160.5	3114.9	3009.8	2929.6	2836.7	2601.8
30°	3183.5	3183.5	3263.8	3314.0	3280.5	3272.4	3226.8	3109.7	3038.1	2952.1	2689.5
32.5°	3339.4	3346.3	3411.5	3443.3	3405.8	3397.7	3353.2	3236.1	3182.4	3128.1	2826.3
35°	3490.0	3495.2	3557.0	3574.3	3538.5	3540.8	3509.1	3409.8	3389.6	3382.7	3032.3
37.5°	3636.0	3637.2	3700.1	3711.1	3693.2	3712.8	3715.7	3628.0	3665.5	3721.5	3322.6
40°	3769.4	3770.5	3832.8	3861.1	3891.7	3917.1	3939.6	3892.9	4017.0	4146.8	3668.4
42.5°	3876.1	3888.2	3967.3	4021.0	4101.8	4150.3	4211.5	4209.1	4435.4	4630.5	4086.2
45°	3970.2	3991.0	4101.2	4195.3	4333.8	4411.1	4507.0	4582.0	4906.3	5168.9	4509.3
47.5°	4094.3	4113.9	4239.7	4393.8	4578.5	4680.1	4838.8	5001.0	5424.0	5697.6	4922.5
50°	4269.2	4260.5	4384.6	4605.6	4842.9	4976.2	5202.4	5445.4	5937.7	6158.2	5165.5
52.5°	4455.6	4452.1	4543.9	4835.9	5154.5	5310.3	5609.3	5904.8	6428.9	6475.6	5276.9
55°	4686.4	4661.6	4739.0	5098.5	5524.5	5691.8	6043.9	6359.6	6820.2	6654.5	5332.8
57.5°	4928.3	4887.3	4961.2	5391.1	5941.7	6139.7	6525.2	6802.8	7080.5	6776.9	5332.3
60°	5178.2	5129.7	5217.4	5757.1	6460.0	6689.1	7047.0	7102.4	7323.4	6838.6	5293.0
62.5°	5387.1	5358.2	5488.7	6148.4	7038.9	7264.0	7441.2	7374.8	7528.3	6886.5	5201.3
65°	5608.1	5609.9	5820.5	6604.9	7654.1	7805.9	7820.9	7728.0	7699.7	6876.7	4890.8
67.5°	5907.1	5934.8	6286.3	7224.7	8252.6	8369.8	8368.6	8110.7	7825.0	6486.6	4202.2
70°	6223.4	6288.6	6823.0	7934.1	8906.0	9024.9	8963.7	8354.2	7367.9	5245.1	2974.0
72.5°	6170.3	6283.4	7121.4	8381.3	9375.2	9465.8	9068.2	7755.7	5823.4	3048.5	1266.3
75°	4760.3	4891.3	6529.9	7938.1	8882.9	8801.5	7791.5	6035.2	3182.4	850.7	285.1
77.5°	2514.6	2584.5	4313.6	6047.4	6926.4	6756.1	5488.7	3348.0	970.2	210.7	128.1
80°	1317.1	1333.2	1879.8	3431.1	4274.9	4276.1	3252.8	1470.6	400.0	107.9	86.0
82.5°	705.3	719.1	993.3	1585.4	2239.9	2030.4	1245.5	809.2	232.6	61.2	82.5
85°	169.7	172.6	563.3	724.3	880.7	629.1	370.0	679.3	62.9	35.8	66.9
87.5°	65.2	66.4	208.9	313.4	224.5	145.4	173.1	253.4	8.1	13.9	10.4
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°	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6	2555.6
2.5°	2530.2	2515.2	2478.3	2431.5	2390.0	2360.0	2314.9	2285.5	2265.9	2265.3	2257.8
5°	2466.2	2435.6	2355.9	2261.3	2175.3	2097.9	2006.7	1934.6	1880.9	1872.3	1853.8
7.5°	2397.5	2347.3	2224.9	2077.2	1932.9	1786.3	1616.0	1510.4	1419.8	1376.5	1371.9
10°	2355.3	2284.9	2111.2	1897.7	1671.4	1433.1	1210.3	1056.2	944.8	913.0	889.4
12.5°	2346.7	2253.8	2023.5	1729.1	1405.9	1090.8	844.4	680.5	591.6	563.3	555.8
15°	2355.3	2239.3	1949.6	1562.3	1137.0	774.0	566.8	471.5	438.1	430.0	429.4
17.5°	2360.5	2222.0	1865.9	1377.1	876.1	552.9	434.0	406.3	401.1	400.5	401.7
20°	2360.0	2195.5	1766.1	1170.5	651.6	434.6	392.5	386.7	385.5	386.1	385.5
22.5°	2355.9	2164.3	1656.4	957.5	492.3	388.4	374.6	371.1	370.5	370.5	370.5
25°	2363.4	2139.5	1535.8	753.8	405.7	367.1	358.4	355.5	354.9	354.9	353.8
27.5°	2390.5	2125.6	1403.6	580.0	366.5	348.0	341.1	340.5	338.8	338.2	339.4
30°	2434.4	2125.6	1258.8	451.3	342.8	328.4	323.2	322.0	321.5	320.9	321.5
32.5°	2511.7	2141.8	1100.6	375.1	320.3	306.5	303.0	304.7	303.0	303.0	303.0
35°	2651.4	2190.3	935.0	327.2	296.7	285.1	281.6	284.0	282.8	282.8	282.2
37.5°	2855.2	2280.3	768.2	298.4	275.9	263.8	259.1	262.6	261.4	261.4	260.9
40°	3103.3	2411.3	609.5	276.5	255.7	243.0	238.9	240.7	237.8	237.8	238.9
42.5°	3409.8	2577.5	471.0	255.1	235.5	223.4	221.0	219.3	214.1	211.2	211.8
45°	3750.3	2750.7	367.1	234.3	216.4	206.6	203.2	198.5	189.9	184.1	184.7
47.5°	4054.5	2884.0	298.4	214.1	199.1	191.6	186.4	177.8	165.1	158.1	158.7
50°	4214.3	2904.2	253.9	193.9	183.0	175.5	168.0	154.7	139.7	132.2	131.6
52.5°	4255.3	2809.6	221.0	175.5	166.8	158.1	148.3	130.4	113.7	105.6	104.5
55°	4270.3	2665.3	191.6	158.1	149.5	139.7	127.0	106.8	91.2	83.1	82.5
57.5°	4220.7	2450.0	168.5	142.6	132.2	120.0	104.5	85.4	70.4	64.1	64.1
60°	4110.4	2158.5	150.6	125.8	114.3	100.4	84.3	66.4	52.5	47.3	47.3
62.5°	3890.6	1781.1	133.9	108.5	97.5	83.1	68.1	50.2	36.9	34.1	34.6
65°	3475.6	1351.1	117.2	92.9	83.1	68.7	53.1	35.8	24.8	24.8	26.0
67.5°	2834.4	938.4	99.8	79.1	71.6	56.0	40.4	24.8	17.3	19.6	21.9
70°	1876.3	526.4	85.4	65.2	61.2	44.4	30.0	16.7	13.9	18.5	22.5
72.5°	708.2	204.9	71.6	52.5	53.1	34.1	21.4	12.7	12.7	20.2	26.5
75°	197.4	100.4	51.4	38.7	41.6	24.8	15.6	11.0	12.1	23.1	31.2
77.5°	116.0	73.9	33.5	22.5	28.3	17.3	10.4	8.7	10.4	19.6	30.0
80°	93.5	39.2	19.6	11.5	15.6	9.8	6.9	5.2	2.9	7.5	15.6
82.5°	93.5	23.7	9.2	8.1	8.1	5.2	3.5	2.3	0.6	0.0	4.0
85°	62.9	9.8	5.8	5.2	4.0	1.7	1.2	0.6	0.0	0.0	0.0
87.5°	10.4	4.0	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
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)