

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: P528023

Luminaire Tested: **GALN-SA3A-750-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-750-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7968 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

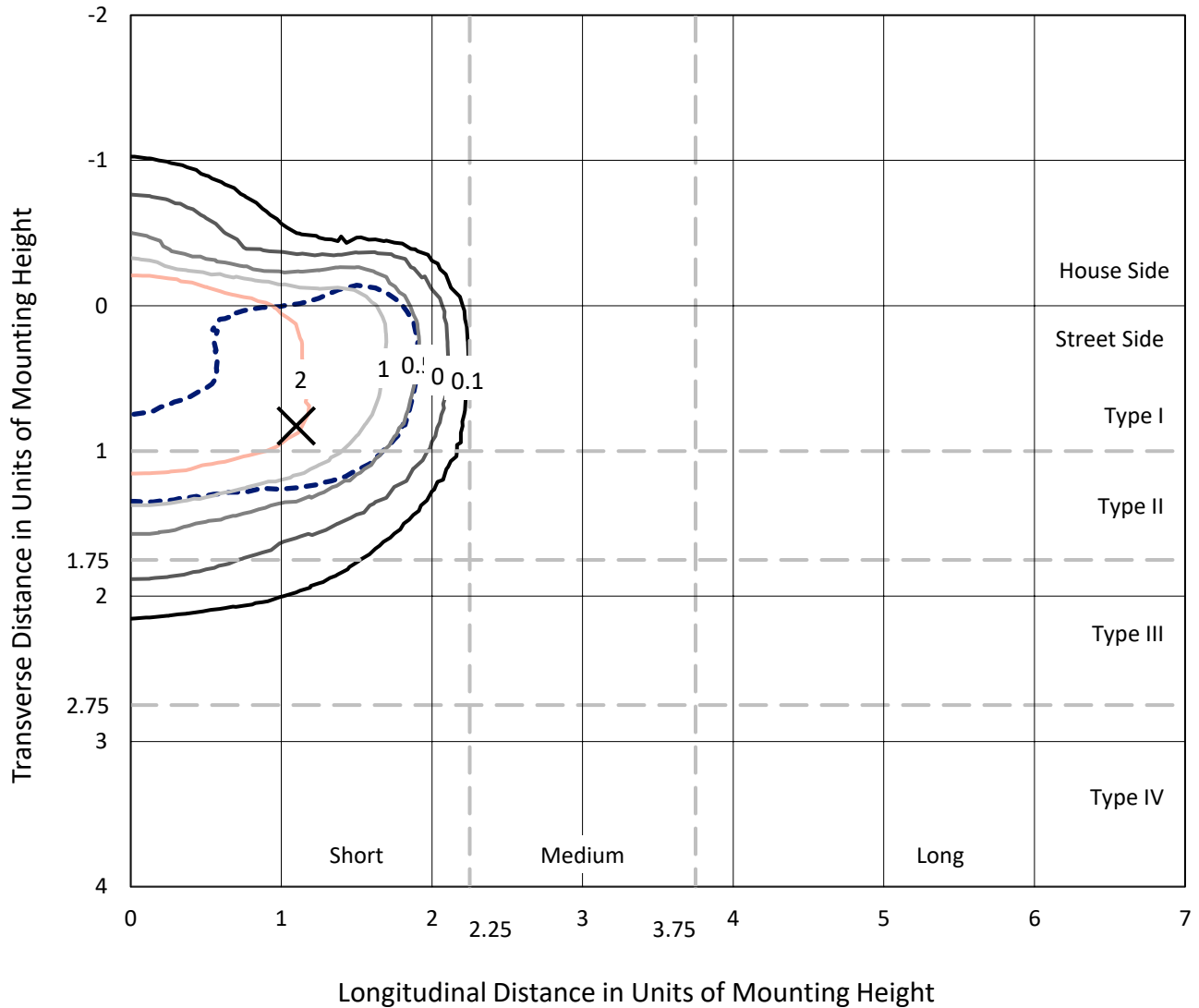
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

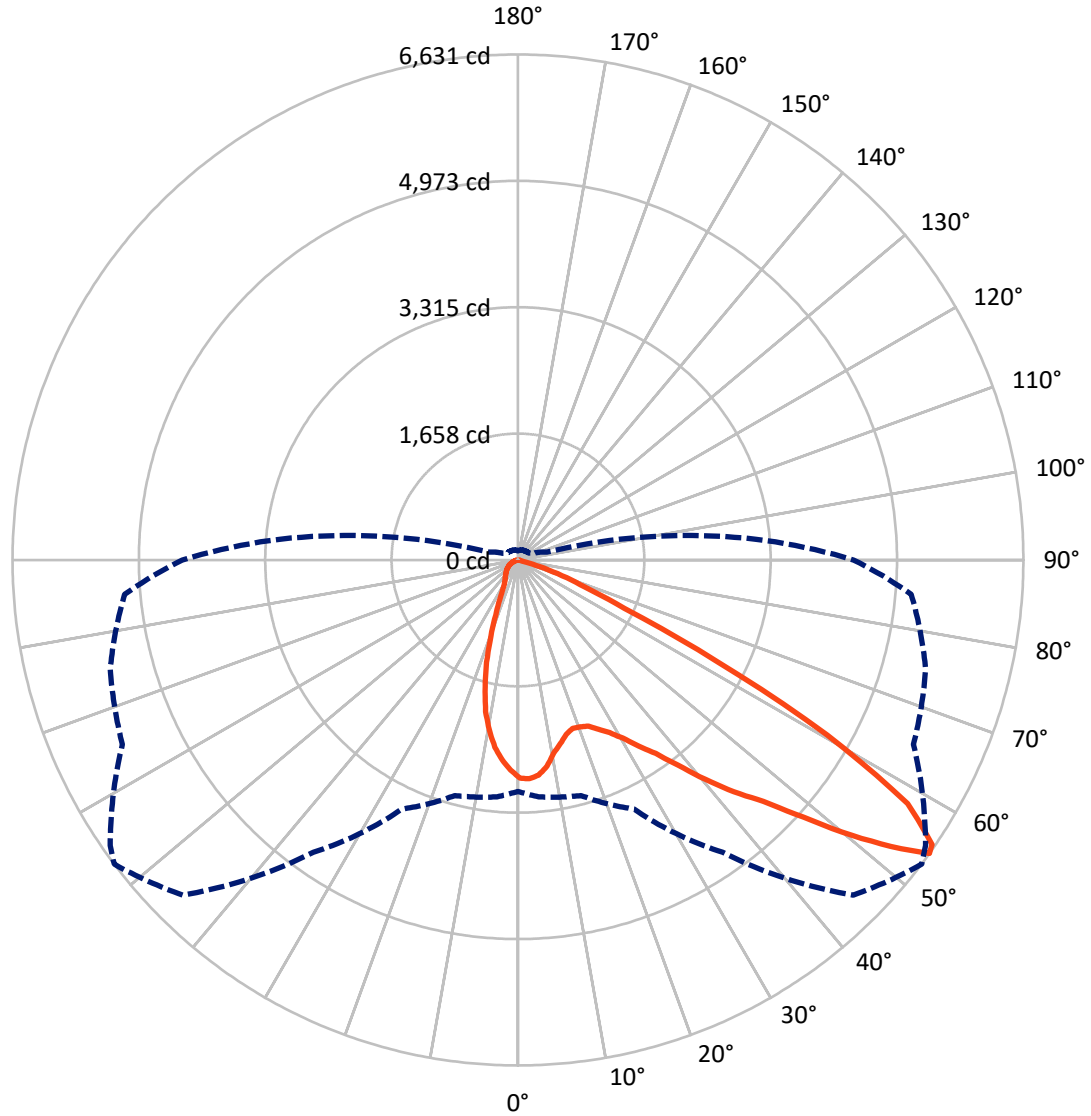
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1318.3	0.0	1318.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6649.7	0.0	6649.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	7968.0	0.0	7968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	3.1
10°-20°	563.0	7.1
20°-30°	800.1	10.0
30°-40°	1234.8	15.5
40°-50°	1936.0	24.3
50°-60°	2248.9	28.2
60°-70°	849.8	10.7
70°-80°	80.8	1.0
80°-90°	9.1	0.1
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°	7968.0	100.0
0°-180°	7968.0	100.0

Coefficient of Utilization



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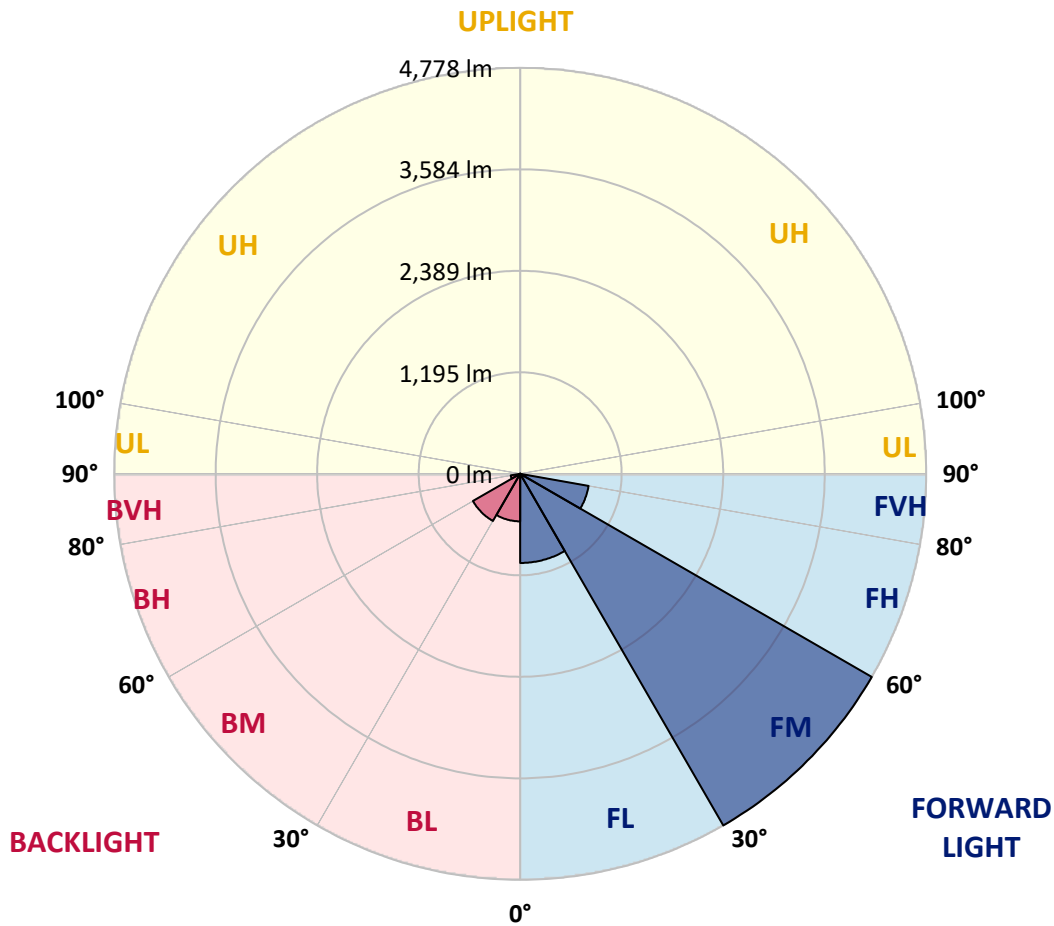
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.2	13.2			
FM (30°-60°)	4778.2	60.0			
FH (60°-80°)	817.6	10.3			G1/1800
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	559.4	7.0	B2/1000		
BM (30°-60°)	641.5	8.1	B1/1000		
BH (60°-80°)	113.0	1.4	B1/500		G1/500
BVH (80°-90°)	4.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0
2.5°	2847.1	2821.9	2847.1	2850.1	2867.9	2884.2	2873.8	2897.6	2884.2	2869.4	2864.9
5°	2617.0	2651.2	2652.7	2706.1	2694.2	2792.2	2835.3	2823.4	2896.1	2891.7	2881.3
7.5°	2410.7	2397.3	2415.2	2477.5	2556.2	2669.0	2731.3	2729.9	2833.8	2908.0	2900.6
10°	2219.2	2217.7	2254.8	2303.8	2370.6	2489.4	2575.5	2618.5	2780.3	2893.1	2909.5
12.5°	2090.1	2084.1	2124.2	2164.3	2269.7	2361.7	2471.6	2492.3	2677.9	2841.2	2867.9
15°	2005.5	2018.8	2021.8	2099.0	2165.8	2287.5	2373.6	2416.6	2630.4	2799.6	2902.1
17.5°	1990.6	2008.4	2009.9	2073.7	2145.0	2247.4	2323.1	2381.0	2590.3	2820.4	2903.5
20°	2020.3	2009.9	2018.8	2058.9	2128.7	2226.6	2336.5	2355.8	2577.0	2830.8	2919.9
22.5°	2104.9	2101.9	2079.7	2112.3	2161.3	2263.7	2367.7	2397.3	2615.6	2884.2	2933.2
25°	2198.4	2214.8	2194.0	2189.5	2223.7	2324.6	2462.7	2501.3	2744.7	2980.7	2974.8
27.5°	2373.6	2357.3	2357.3	2336.5	2327.6	2376.6	2565.1	2628.9	2888.7	3105.4	3022.3
30°	2541.3	2559.1	2545.8	2553.2	2493.8	2489.4	2710.6	2789.2	3144.0	3295.4	3123.2
32.5°	2807.0	2783.3	2805.6	2786.3	2707.6	2627.4	2908.0	2989.6	3452.8	3513.6	3274.6
35°	3028.2	3017.8	3112.8	3109.9	2982.2	2903.5	3117.3	3239.0	3668.0	3774.9	3452.8
37.5°	3342.9	3323.6	3432.0	3483.9	3369.6	3252.4	3417.1	3558.2	3868.4	3984.2	3635.4
40°	3666.5	3715.5	3861.0	3947.1	3825.4	3669.5	3783.8	3826.8	4002.0	4120.8	3760.0
42.5°	4076.2	4147.5	4295.9	4370.1	4359.8	4190.5	4156.4	4154.9	4098.5	4082.2	3852.1
45°	4469.6	4442.9	4671.5	4833.3	4963.9	4914.9	4515.6	4471.1	4251.4	4140.1	3875.8
47.5°	4641.8	4632.9	4788.8	5076.7	5522.1	5582.9	5038.1	4865.9	4509.7	4383.5	4005.0
50°	4419.1	4465.2	4619.5	4938.7	5621.5	6086.1	5679.4	5447.8	4811.0	4680.4	4310.8
52.5°	3691.8	3722.9	3869.9	4275.1	5283.1	6383.0	6294.0	6160.4	5364.7	5148.0	4843.7
54°	3035.6	3118.8	3198.9	3605.7	4680.4	6218.3	6630.9	6528.5	5725.4	5536.9	5179.2
55°	2643.8	2692.7	2750.6	3155.9	4263.3	5939.2	6592.3	6601.2	5967.4	5658.6	5404.8
57.5°	1931.2	1965.4	1906.0	2085.6	2927.3	4822.9	6029.7	6270.2	6294.0	5841.2	5542.8
60°	1475.5	1490.4	1423.6	1451.8	1819.9	3310.3	4664.1	4953.5	5677.9	5104.9	4695.2
62.5°	1144.5	1147.5	1146.0	1195.0	1254.3	1947.6	2916.9	3173.7	3914.4	3625.0	3188.5
65°	843.2	829.8	853.5	1002.0	1070.3	1224.7	1536.4	1723.4	2127.2	1796.2	1284.0
67.5°	546.3	550.7	574.5	745.2	917.4	939.6	945.6	930.7	932.2	513.6	322.1
70°	328.1	335.5	328.1	421.6	656.1	673.9	616.0	601.2	469.1	121.7	120.2
72.5°	194.5	184.1	164.8	181.1	273.1	326.6	293.9	292.4	184.1	71.3	71.3
75°	81.6	74.2	60.9	54.9	72.7	69.8	69.8	62.3	49.0	47.5	44.5
77.5°	16.3	16.3	11.9	13.4	17.8	20.8	25.2	25.2	29.7	29.7	28.2
80°	0.0	1.5	4.5	8.9	13.4	19.3	22.3	22.3	25.2	25.2	20.8
82.5°	0.0	1.5	4.5	8.9	11.9	17.8	22.3	22.3	25.2	26.7	22.3
85°	0.0	1.5	4.5	7.4	11.9	14.8	14.8	13.4	10.4	8.9	5.9
87.5°	0.0	0.0	1.5	3.0	1.5	3.0	3.0	3.0	3.0	3.0	3.0
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°	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0
2.5°	2875.3	2873.8	2838.2	2780.3	2767.0	2718.0	2712.0	2682.4	2698.7	2643.8	2637.8
5°	2851.6	2833.8	2790.7	2753.6	2645.2	2568.1	2507.2	2433.0	2389.9	2397.3	2369.1
7.5°	2885.7	2839.7	2764.0	2634.9	2502.7	2367.7	2294.9	2143.5	2088.6	2006.9	1995.1
10°	2850.1	2816.0	2698.7	2484.9	2302.3	2107.9	1937.2	1769.4	1641.8	1586.9	1575.0
12.5°	2847.1	2787.8	2591.8	2354.3	2090.1	1811.0	1563.1	1353.8	1227.6	1156.4	1140.0
15°	2801.1	2729.9	2471.6	2152.4	1787.2	1439.9	1169.7	967.8	871.4	829.8	841.7
17.5°	2805.6	2698.7	2351.3	1938.7	1488.9	1056.9	798.6	694.7	669.5	679.9	679.9
20°	2801.1	2628.9	2205.9	1692.2	1140.0	733.3	586.3	549.2	565.6	598.2	590.8
22.5°	2777.4	2596.3	2072.3	1432.5	838.7	543.3	470.6	472.0	497.3	537.4	546.3
25°	2795.2	2523.5	1903.0	1169.7	611.6	433.5	408.2	418.6	445.3	475.0	481.0
27.5°	2781.8	2471.6	1726.4	908.5	446.8	372.6	371.1	383.0	394.9	417.1	417.1
30°	2796.7	2424.1	1552.7	675.4	368.1	341.4	335.5	344.4	356.3	360.7	359.2
32.5°	2851.6	2388.4	1352.3	504.7	325.1	311.7	311.7	311.7	310.2	316.2	317.7
35°	2971.8	2394.4	1175.7	390.4	296.9	286.5	282.0	276.1	273.1	276.1	277.6
37.5°	3102.4	2391.4	993.1	332.5	276.1	267.2	256.8	247.9	246.4	249.4	244.9
40°	3160.3	2419.6	823.9	298.4	256.8	246.4	230.1	222.7	224.1	227.1	224.1
42.5°	3239.0	2428.5	714.0	271.6	239.0	222.7	212.3	203.4	201.9	206.3	204.9
45°	3237.5	2378.0	598.2	256.8	222.7	204.9	191.5	184.1	184.1	187.0	188.5
47.5°	3332.5	2370.6	513.6	243.4	210.8	193.0	176.6	170.7	169.2	169.2	166.3
50°	3553.7	2474.5	448.3	228.6	195.9	179.6	166.3	158.8	152.9	149.9	148.4
52.5°	3985.7	2798.1	397.8	210.8	179.6	166.3	154.4	148.4	141.0	133.6	132.1
54°	4404.3	3132.1	394.9	195.9	166.3	157.3	147.0	144.0	135.1	124.7	121.7
55°	4592.8	3326.6	405.2	184.1	157.3	151.4	142.5	139.5	130.6	118.8	117.3
57.5°	4748.7	3402.3	399.3	152.9	142.5	141.0	133.6	129.1	118.8	102.4	99.5
60°	3822.4	2572.5	286.5	135.1	130.6	127.7	121.7	118.8	105.4	87.6	86.1
62.5°	2415.2	1480.0	182.6	118.8	114.3	109.8	102.4	99.5	87.6	69.8	65.3
65°	1028.7	613.1	123.2	105.4	98.0	90.5	84.6	80.2	69.8	52.0	50.5
67.5°	267.2	218.2	102.4	92.0	81.6	71.3	66.8	59.4	47.5	35.6	34.1
70°	120.2	109.8	86.1	77.2	65.3	54.9	49.0	41.6	31.2	23.8	22.3
72.5°	71.3	69.8	65.3	57.9	49.0	41.6	35.6	28.2	20.8	13.4	13.4
75°	44.5	43.0	44.5	40.1	34.1	31.2	26.7	19.3	11.9	5.9	5.9
77.5°	26.7	26.7	26.7	25.2	23.8	23.8	19.3	11.9	5.9	1.5	1.5
80°	20.8	20.8	22.3	20.8	20.8	20.8	16.3	8.9	3.0	0.0	0.0
82.5°	20.8	22.3	25.2	23.8	20.8	17.8	14.8	8.9	3.0	0.0	0.0
85°	5.9	4.5	7.4	10.4	14.8	13.4	10.4	7.4	3.0	0.0	0.0
87.5°	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	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)