

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: P528947

Luminaire Tested: **GALN-SA4A-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11002 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

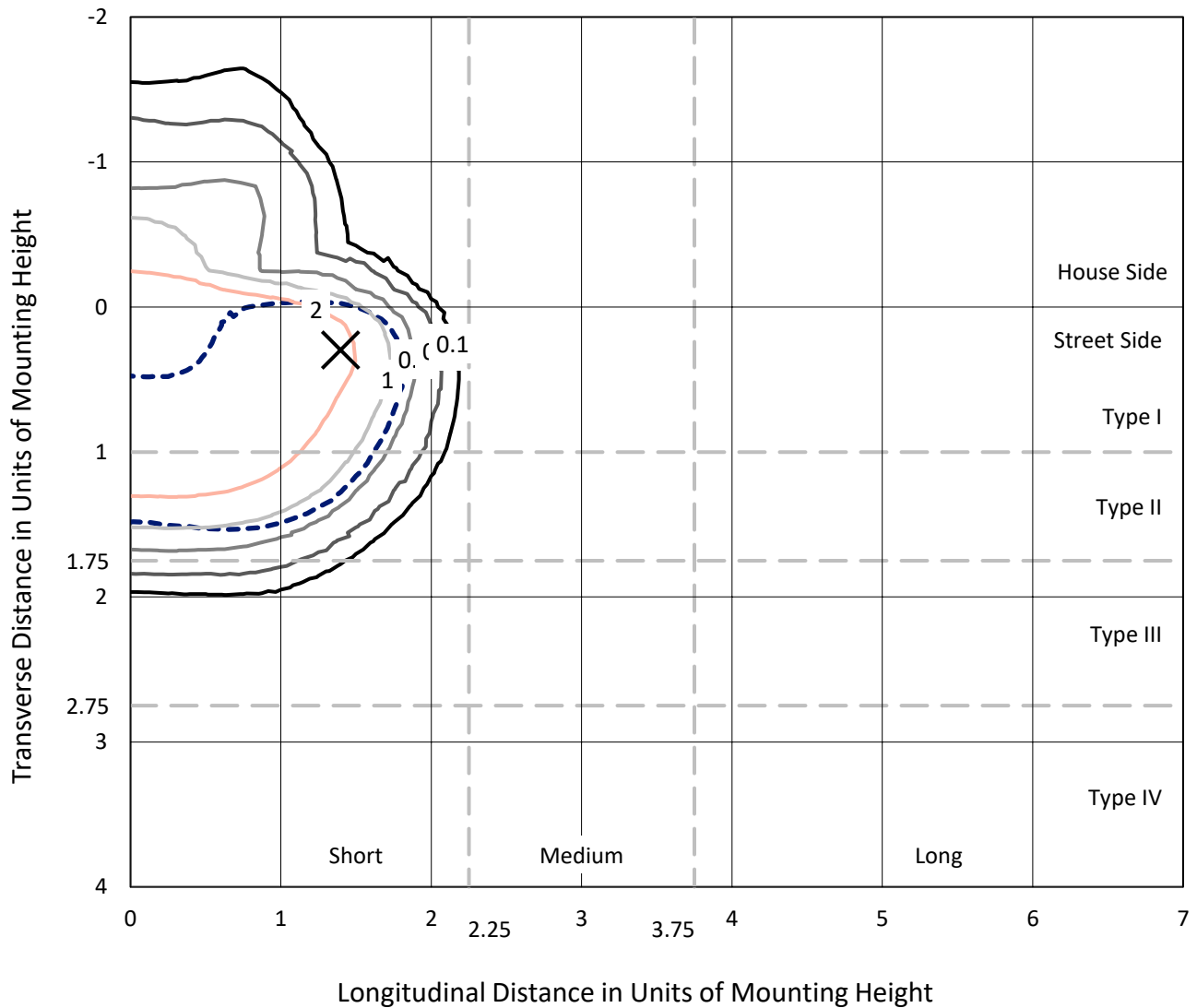
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

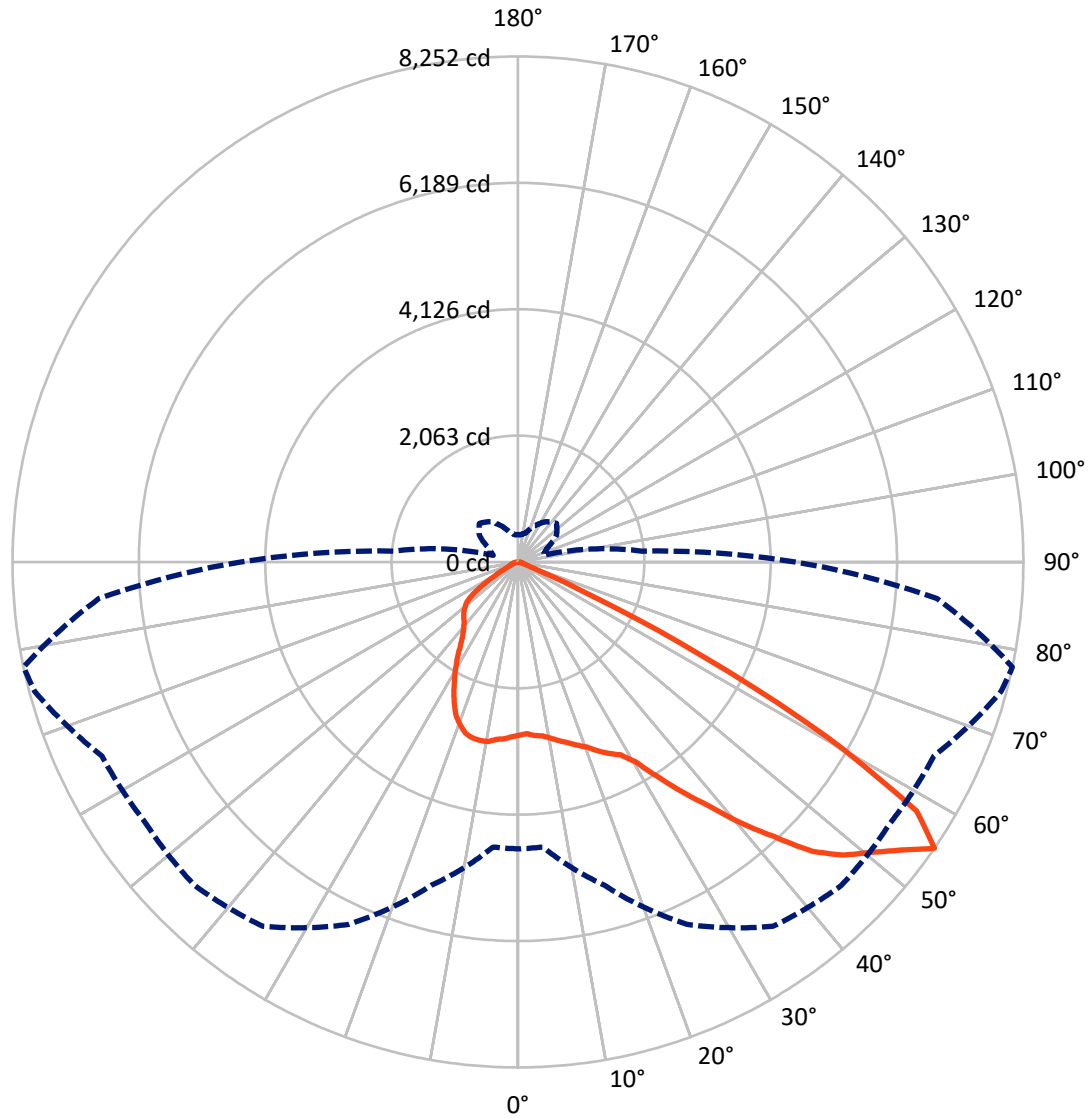
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.5	0.0	2043.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8958.5	0.0	8958.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	11002.0	0.0	11002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	2.3
10°-20°	667.5	6.1
20°-30°	1170.0	10.6
30°-40°	1929.2	17.5
40°-50°	2807.3	25.5
50°-60°	3180.9	28.9
60°-70°	909.5	8.3
70°-80°	70.6	0.6
80°-90°	14.7	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°	11002.0	100.0
0°-180°	11002.0	100.0

Coefficient of Utilization



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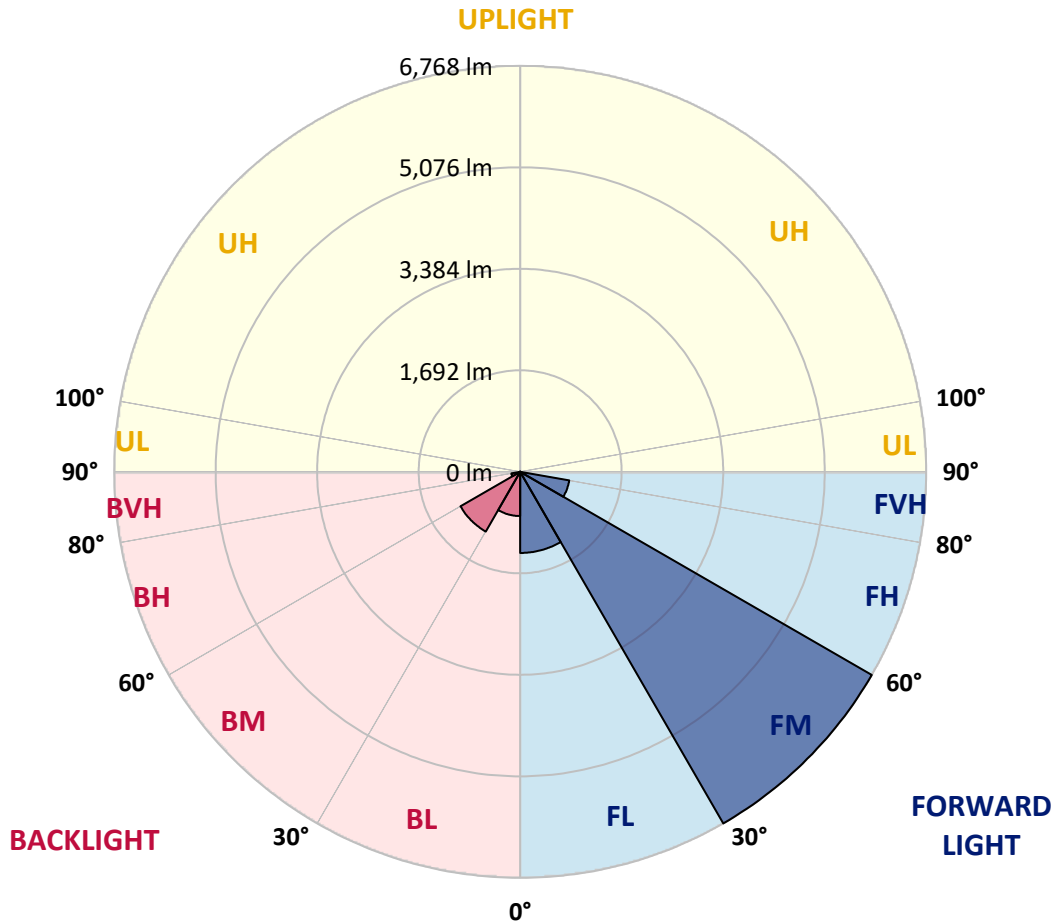
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.5	12.3			
FM (30°-60°)	6767.9	61.5			
FH (60°-80°)	830.9	7.6			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	737.3	6.7	B2/1000		
BM (30°-60°)	1149.5	10.4	B2/2500		
BH (60°-80°)	149.2	1.4	B1/500		G1/500
BVH (80°-90°)	7.5	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°	55°	65°	75°	78°	85°
0°	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6
2.5°	2659.5	2685.0	2689.0	2720.4	2718.5	2771.6	2787.3	2789.3	2824.7	2807.0	2852.2
5°	2584.7	2570.9	2565.0	2620.1	2635.8	2683.1	2722.4	2746.0	2818.8	2844.4	2891.6
7.5°	2517.8	2517.8	2521.8	2570.9	2565.0	2626.0	2667.3	2740.1	2846.3	2868.0	2925.0
10°	2452.9	2429.3	2458.8	2510.0	2553.2	2580.8	2667.3	2736.2	2860.1	2923.0	3001.7
12.5°	2419.5	2431.3	2435.2	2472.6	2519.8	2602.4	2649.6	2763.7	2958.4	2995.8	3080.4
15°	2629.9	2606.3	2549.3	2515.9	2555.2	2594.5	2712.6	2828.6	3009.6	3062.7	3157.1
17.5°	2873.9	2854.2	2807.0	2716.5	2628.0	2700.8	2793.2	2899.4	3064.7	3143.3	3283.0
20°	3192.5	3161.1	3113.8	2936.8	2860.1	2781.4	2879.8	3005.7	3155.2	3226.0	3369.6
22.5°	3572.2	3572.2	3465.9	3251.5	3092.2	3017.5	3058.8	3131.5	3255.5	3351.9	3493.5
25°	3967.5	3955.7	3859.4	3637.1	3367.6	3279.1	3326.3	3377.4	3410.9	3464.0	3558.4
27.5°	4420.0	4351.1	4229.2	3983.3	3745.3	3574.1	3625.3	3580.0	3538.7	3566.3	3702.0
30°	4726.8	4770.1	4614.7	4378.7	4154.4	3963.6	3973.4	3934.1	3745.3	3784.6	3865.3
32.5°	5045.5	5073.0	4986.5	4856.7	4632.4	4410.1	4329.5	4296.0	4154.4	4172.1	4093.4
35°	5311.0	5364.2	5287.4	5230.4	5165.5	4986.5	4764.2	4872.4	4644.2	4600.9	4396.4
37.5°	5555.0	5539.2	5629.7	5570.7	5556.9	5431.0	5187.1	5208.8	5055.3	5045.5	4809.4
40°	5773.3	5777.2	5901.2	5928.7	5873.6	5649.4	5295.3	5466.4	5590.4	5602.2	5299.2
42.5°	5954.3	6007.4	6113.6	6335.9	6253.3	5879.5	5407.4	5594.3	6054.6	6127.4	5763.5
45°	6111.6	6219.8	6351.6	6550.3	6503.1	6206.0	5686.7	5857.9	6550.3	6741.1	6200.1
47.5°	6121.5	6263.1	6406.7	6701.7	6760.8	6381.1	5975.9	6274.9	6943.7	7150.2	6518.8
50°	6082.1	6156.9	6444.1	6764.7	6898.5	6666.3	6381.1	6625.0	7325.3	7455.1	6680.1
52.5°	5615.9	5673.0	6249.3	6823.7	7146.3	6988.9	6918.1	7112.9	7714.8	7811.2	6831.6
55°	4681.6	4671.7	5464.5	6526.7	7260.4	7466.9	7423.7	7492.5	8165.2	8251.8	6868.9
57.5°	3202.4	3381.4	4065.9	5435.0	6562.1	7354.8	7400.0	7286.0	7640.0	7673.5	5987.7
60°	1727.1	1801.8	2352.6	3627.2	4996.3	5993.6	6111.6	5905.1	5877.6	5783.1	4274.4
62.5°	686.5	723.9	1036.6	1795.9	2722.4	3643.0	3896.7	3812.1	3631.2	3383.3	2212.9
65°	326.5	350.1	515.4	839.9	1207.8	1518.6	1772.3	1851.0	1365.1	1229.4	729.8
67.5°	222.3	240.0	375.7	480.0	430.8	450.5	586.2	544.9	320.6	273.4	202.6
70°	169.2	181.0	301.0	326.5	192.8	135.7	151.5	141.6	131.8	133.8	131.8
72.5°	120.0	129.8	220.3	192.8	84.6	62.9	80.6	96.4	96.4	96.4	94.4
75°	72.8	82.6	127.9	74.7	33.4	33.4	51.1	64.9	68.8	70.8	66.9
77.5°	37.4	47.2	43.3	21.6	21.6	25.6	37.4	45.2	49.2	49.2	47.2
80°	7.9	7.9	7.9	11.8	21.6	27.5	37.4	41.3	47.2	47.2	43.3
82.5°	0.0	2.0	5.9	11.8	19.7	25.6	35.4	41.3	47.2	49.2	45.2
85°	0.0	2.0	3.9	7.9	13.8	15.7	13.8	11.8	11.8	11.8	11.8
87.5°	0.0	0.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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°	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6
2.5°	2856.2	2862.1	2852.2	2850.3	2842.4	2866.0	2809.0	2795.2	2830.6	2797.1	2805.0
5°	2893.5	2907.3	2889.6	2860.1	2816.8	2749.9	2692.9	2618.1	2582.7	2557.2	2553.2
7.5°	2921.1	2930.9	2913.2	2818.8	2689.0	2519.8	2393.9	2301.5	2228.7	2207.0	2171.6
10°	3033.2	3035.2	2946.6	2738.1	2484.4	2262.1	2069.3	1927.7	1854.9	1809.7	1790.0
12.5°	3107.9	3104.0	2925.0	2578.8	2240.5	1945.4	1725.1	1554.0	1487.1	1465.5	1451.7
15°	3202.4	3180.7	2873.9	2415.5	1925.7	1607.1	1408.4	1290.4	1284.5	1270.7	1284.5
17.5°	3277.1	3216.1	2799.1	2118.5	1624.8	1323.8	1194.0	1201.9	1217.6	1231.4	1233.3
20°	3399.1	3273.2	2628.0	1858.9	1345.5	1135.0	1133.0	1168.4	1207.8	1223.5	1239.2
22.5°	3491.5	3296.8	2445.0	1581.5	1117.3	1058.3	1091.7	1144.8	1174.3	1190.1	1213.7
25°	3525.0	3231.9	2201.1	1304.2	1007.1	1022.9	1074.0	1109.4	1146.8	1164.5	1154.7
27.5°	3558.4	3198.4	1910.0	1074.0	948.1	999.3	1042.5	1077.9	1089.7	1113.4	1129.1
30°	3639.0	3082.4	1648.4	928.4	918.6	983.5	1015.0	1026.8	1058.3	1072.0	1072.0
32.5°	3704.0	3037.1	1371.0	859.6	914.7	991.4	995.3	995.3	999.3	989.4	985.5
35°	3837.7	2881.7	1123.2	818.3	912.7	993.4	1003.2	969.8	879.3	843.9	834.0
37.5°	4003.0	2781.4	940.3	808.5	926.5	1017.0	1032.7	906.8	788.8	731.7	721.9
40°	4203.6	2710.6	820.3	804.5	958.0	1072.0	1024.8	857.6	704.2	621.6	617.7
42.5°	4437.7	2645.7	739.6	802.6	997.3	1129.1	1017.0	816.3	617.7	562.6	570.4
45°	4624.5	2610.3	684.5	788.8	1011.1	1162.5	1022.9	743.5	582.2	546.8	550.8
47.5°	4770.1	2535.5	639.3	765.2	1009.1	1174.3	969.8	714.0	564.5	574.4	584.2
50°	4774.0	2435.2	582.2	714.0	979.6	1152.7	908.8	686.5	560.6	601.9	621.6
52.5°	4720.9	2293.6	521.3	641.3	910.7	1077.9	853.7	674.7	542.9	539.0	562.6
55°	4532.1	2028.0	419.0	519.3	769.1	889.1	804.5	653.1	489.8	444.6	448.5
57.5°	3662.7	1453.7	308.8	371.8	544.9	651.1	725.8	643.2	440.6	377.7	379.6
60°	2268.0	824.2	226.2	253.7	336.4	395.4	588.1	598.0	393.4	318.7	314.7
62.5°	1164.5	407.2	175.1	179.0	206.5	232.1	403.2	501.6	356.0	302.9	302.9
65°	389.5	200.6	153.4	137.7	137.7	143.6	243.9	348.2	301.0	253.7	253.7
67.5°	167.2	149.5	133.8	120.0	110.2	104.3	137.7	202.6	224.2	192.8	184.9
70°	129.8	125.9	116.1	100.3	86.6	78.7	80.6	104.3	127.9	123.9	120.0
72.5°	96.4	96.4	92.5	78.7	66.9	57.0	53.1	55.1	61.0	62.9	64.9
75°	66.9	68.8	68.8	61.0	49.2	41.3	35.4	29.5	23.6	19.7	17.7
77.5°	45.2	47.2	51.1	45.2	37.4	27.5	21.6	15.7	9.8	3.9	3.9
80°	39.3	45.2	49.2	45.2	39.3	29.5	21.6	11.8	5.9	0.0	0.0
82.5°	41.3	45.2	51.1	43.3	37.4	27.5	21.6	13.8	5.9	2.0	0.0
85°	9.8	9.8	11.8	13.8	17.7	19.7	15.7	9.8	5.9	2.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	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)