

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643167

Luminaire Tested: GWS-SA6E-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29596.5 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

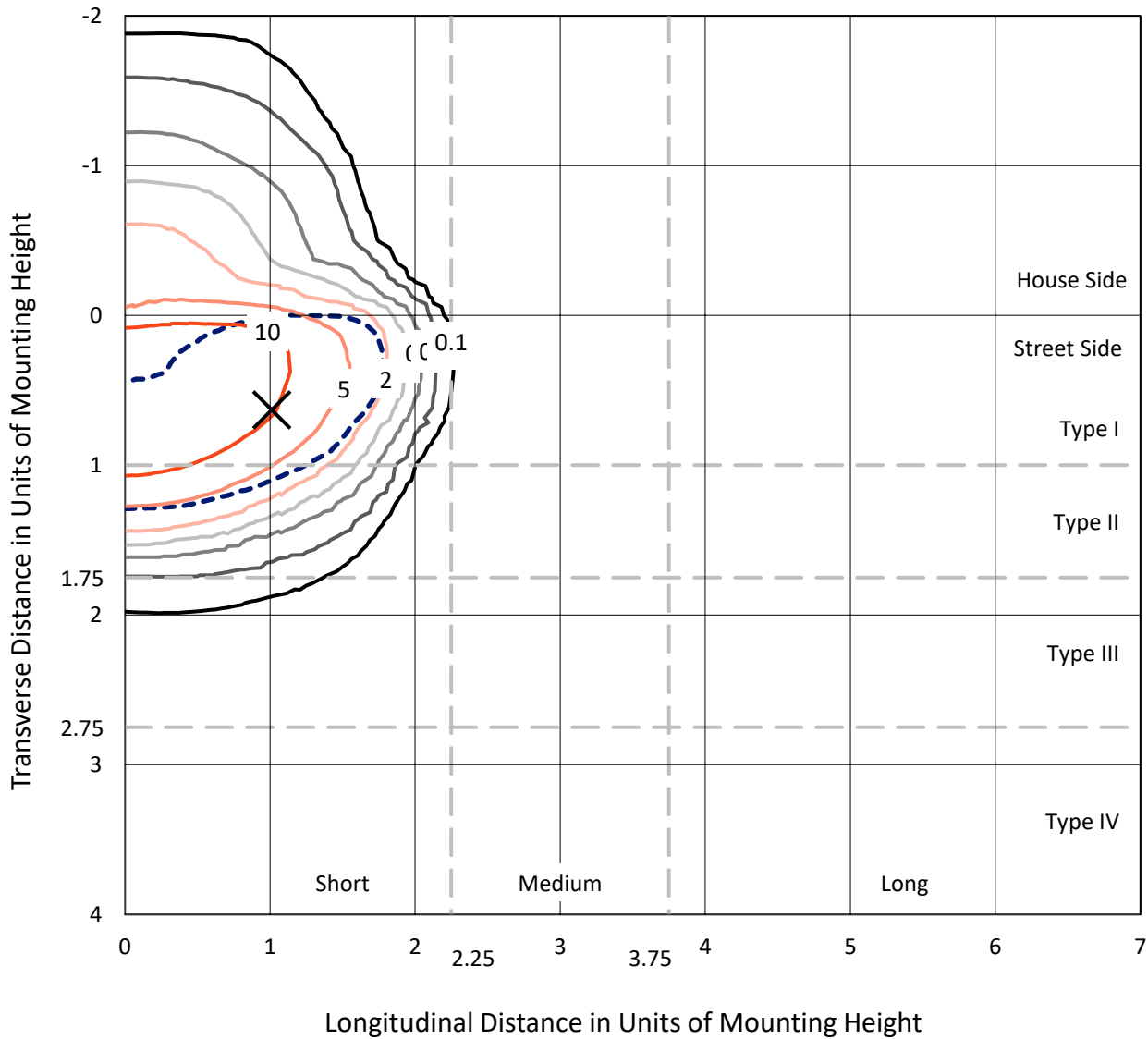
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643167
 CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

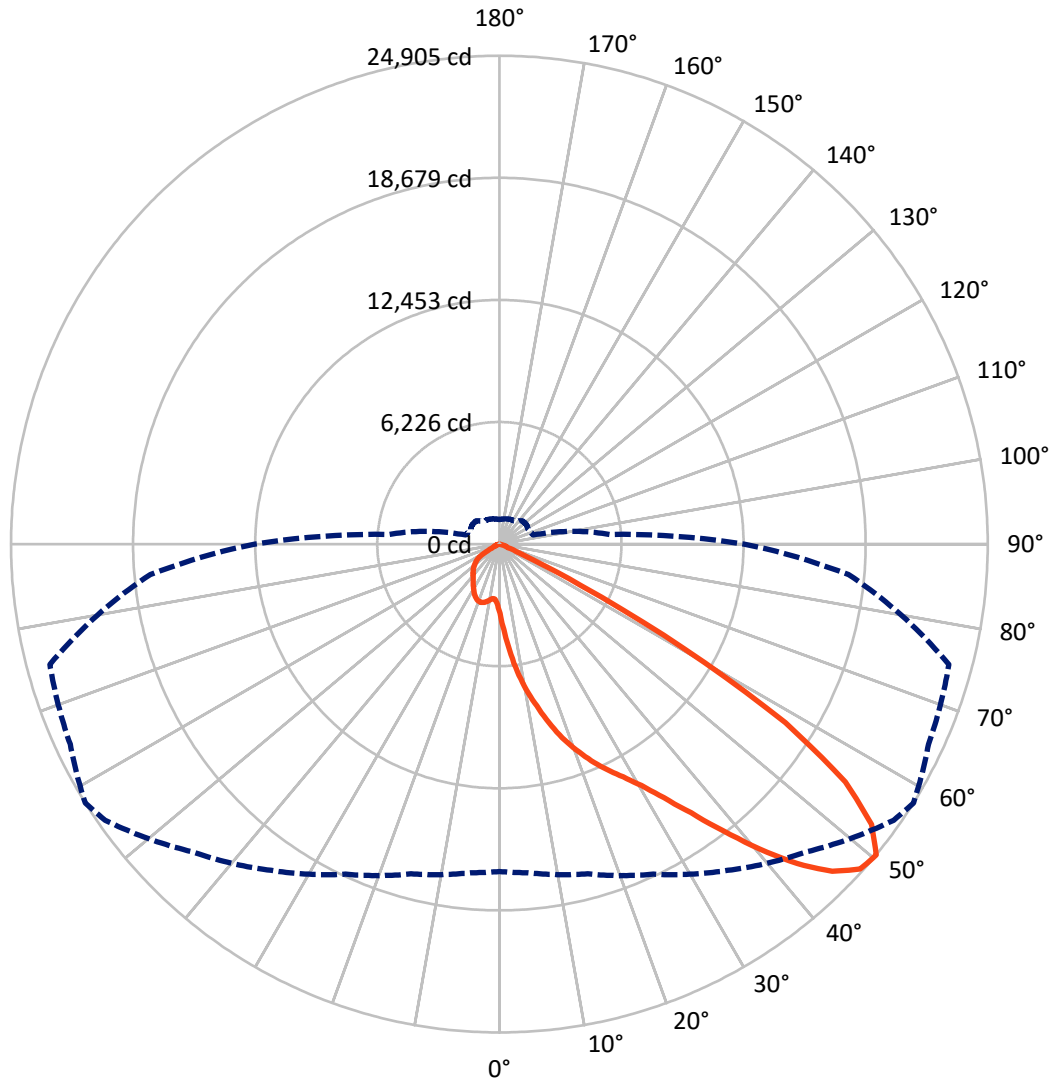
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

REPORT NUMBER: P643167
CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P643167

CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4145.4	0.0	4145.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25451.1	0.0	25451.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	29596.5	0.0	29596.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.0	1.5
10°-20°	1733.8	5.9
20°-30°	3508.3	11.9
30°-40°	6206.7	21.0
40°-50°	9048.0	30.6
50°-60°	7252.2	24.5
60°-70°	1306.5	4.4
70°-80°	103.0	0.3
80°-90°	0.1	0.0
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°	29596.5	100.0
0°-180°	29596.5	100.0

Coefficient of Utilization



REPORT NUMBER: P643167

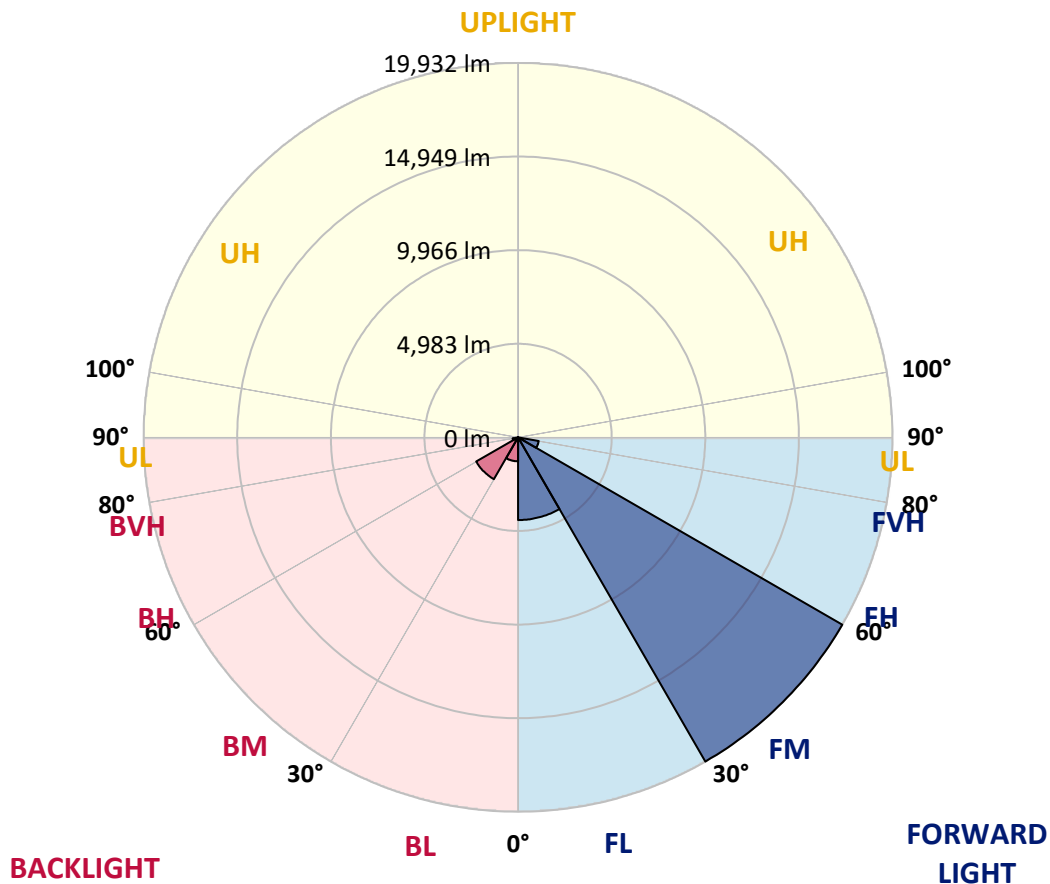
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4403.9	14.9			
FM (30°-60°)	19932.4	67.3			
FH (60°-80°)	1114.9	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1276.2	4.3	B3/2500		
BM (30°-60°)	2574.5	8.7	B3/5000		
BH (60°-80°)	294.6	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P643167

CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3
2.5°	5231.7	5149.4	5101.9	5063.9	4896.2	4630.3	4456.3	4364.5	4212.6	3956.2	3734.6
5°	6826.8	6766.7	6655.9	6579.9	6364.7	5988.1	5598.8	5443.7	5098.7	4519.6	4000.5
7.5°	7883.9	7839.6	7798.4	7697.2	7494.6	7152.8	6722.4	6560.9	6029.2	5206.3	4355.0
10°	8697.3	8662.5	8615.0	8611.8	8453.6	8146.6	7725.6	7557.9	6981.9	5953.3	4772.7
12.5°	9412.6	9384.1	9374.6	9463.2	9361.9	9134.1	8678.3	8469.4	7858.6	6716.0	5234.8
15°	9903.1	9896.8	9937.9	10112.0	10169.0	10064.5	9681.6	9456.9	8754.3	7481.9	5744.4
17.5°	10127.8	10146.8	10226.0	10526.6	10779.8	10868.4	10574.1	10384.2	9643.6	8257.4	6288.8
20°	10510.8	10504.5	10551.9	10836.8	11147.0	11463.5	11374.8	11213.4	10542.5	9077.1	6893.3
22.5°	11590.1	11498.3	11397.0	11441.3	11552.1	11922.4	12087.0	12004.7	11469.8	9919.0	7516.8
25°	13248.5	13153.5	12827.5	12511.1	12302.2	12469.9	12694.6	12735.8	12390.8	10783.0	8168.7
27.5°	15008.2	14922.7	14555.6	14080.9	13482.7	13191.5	13359.3	13441.6	13296.0	11811.6	8861.9
30°	16657.1	16543.2	16141.3	15552.6	14859.4	14413.2	14223.3	14280.3	14365.7	13030.1	9675.3
32.5°	18087.7	18002.2	17521.2	16900.8	16233.0	15767.8	15324.7	15419.6	15628.5	14520.8	10716.5
35°	19299.9	19255.6	18746.0	18128.8	17423.1	17185.7	16805.9	16824.9	17033.8	16321.7	11985.7
37.5°	20353.8	20277.8	19815.8	19242.9	18682.7	18644.7	18540.3	18549.8	18657.4	18420.0	13444.7
40°	21018.4	20948.8	20619.7	20265.2	19866.4	19872.7	20413.9	20455.1	20331.7	20480.4	14986.0
42.5°	21268.5	21217.8	21040.6	21043.8	21002.6	21189.4	22205.3	22281.3	21838.2	22097.7	16302.7
45°	20834.9	20812.7	20825.4	21281.1	21774.9	22350.9	23670.7	23803.6	23176.9	23170.6	17331.3
47.5°	19436.0	19391.7	19762.0	20537.4	21679.9	22800.3	24556.9	24762.6	24113.8	23784.6	17976.9
50°	16695.1	16821.7	17407.2	18571.9	20309.5	22183.1	24547.4	24905.0	24148.6	23730.8	17869.3
52.5°	12093.3	12068.0	13349.8	14951.2	17065.4	20208.2	23243.4	23765.6	23303.5	23202.3	17628.8
55°	6579.9	6811.0	7675.0	9795.5	12435.1	16470.4	20265.2	21404.6	21939.4	23009.2	18062.4
57.5°	2418.0	2519.3	3060.5	4560.7	6583.1	10241.8	15479.8	17198.3	18850.5	22471.2	17989.6
60°	974.8	993.8	1209.0	1677.4	2766.2	5212.7	9286.0	10811.5	12368.6	17201.5	13805.5
62.5°	708.9	734.3	819.7	981.1	1398.9	2278.8	4003.7	4655.6	5089.2	8520.1	6801.5
65°	572.9	591.8	661.5	734.3	924.2	1224.8	1291.3	1243.8	1237.5	2202.8	1560.3
67.5°	474.7	493.7	544.4	595.0	664.6	610.8	443.1	465.2	379.8	376.6	307.0
70°	348.1	370.3	420.9	474.7	398.8	164.6	256.4	379.8	288.0	240.5	234.2
72.5°	262.7	278.5	326.0	310.2	117.1	63.3	170.9	275.4	221.5	177.2	174.1
75°	196.2	205.7	164.6	50.6	12.7	15.8	63.3	113.9	123.4	101.3	101.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	9.5	12.7	15.8	19.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P643167

CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3
2.5°	3608.0	3475.1	3285.2	3127.0	3006.7	2889.6	2801.0	2712.4	2709.2	2664.9	2655.4
5°	3760.0	3519.4	3171.3	2921.3	2769.3	2677.5	2614.3	2582.6	2566.8	2551.0	2544.6
7.5°	3978.3	3633.4	3152.3	2886.4	2759.8	2699.7	2655.4	2636.4	2626.9	2614.3	2611.1
10°	4247.4	3797.9	3221.9	2952.9	2842.1	2785.2	2737.7	2709.2	2693.4	2671.2	2664.9
12.5°	4570.2	4000.5	3332.7	3063.7	2946.6	2870.6	2807.3	2766.2	2744.0	2715.5	2709.2
15°	4918.3	4218.9	3456.1	3165.0	3025.7	2927.6	2848.5	2785.2	2744.0	2709.2	2699.7
17.5°	5279.1	4440.4	3566.9	3234.6	3063.7	2946.6	2832.6	2747.2	2696.5	2652.2	2639.6
20°	5684.3	4668.3	3639.7	3247.2	3051.0	2895.9	2763.0	2655.4	2604.8	2544.6	2532.0
22.5°	6108.4	4880.4	3671.3	3218.8	2981.4	2801.0	2658.6	2547.8	2475.0	2411.7	2392.7
25°	6519.8	5070.3	3655.5	3139.6	2876.9	2668.1	2522.5	2408.5	2329.4	2266.1	2250.3
27.5°	6956.6	5228.5	3598.6	3022.5	2734.5	2522.5	2383.2	2285.1	2212.3	2142.7	2126.8
30°	7447.1	5374.1	3506.8	2880.1	2566.8	2373.7	2266.1	2199.6	2120.5	2047.7	2025.6
32.5°	8039.0	5503.9	3373.8	2709.2	2418.0	2244.0	2183.8	2133.2	2041.4	1965.4	1949.6
35°	8716.3	5611.5	3206.1	2532.0	2272.4	2161.7	2149.0	2082.5	1962.3	1873.7	1854.7
37.5°	9501.2	5715.9	3006.7	2357.9	2164.8	2123.7	2126.8	2012.9	1867.3	1759.7	1747.1
40°	10346.2	5820.3	2785.2	2206.0	2066.7	2101.5	2073.0	1911.6	1674.3	1569.8	1557.2
42.5°	11226.1	5934.3	2560.4	2063.5	1984.4	2016.1	1974.9	1709.1	1538.2	1484.4	1478.0
45°	12020.5	6070.4	2316.7	1921.1	1902.1	1892.6	1823.0	1547.7	1474.9	1436.9	1433.7
47.5°	12593.3	6048.2	2057.2	1785.0	1813.5	1781.9	1569.8	1471.7	1411.6	1360.9	1348.3
50°	12488.9	5662.1	1788.2	1633.1	1699.6	1671.1	1411.6	1383.1	1329.3	1275.5	1256.5
52.5°	12223.0	5136.7	1554.0	1471.7	1576.1	1509.7	1304.0	1275.5	1228.0	1158.4	1136.2
55°	12365.5	4643.0	1370.4	1341.9	1449.5	1250.2	1183.7	1139.4	1088.7	1012.8	1003.3
57.5°	11906.5	3788.4	1101.4	1120.4	1281.8	1066.6	1038.1	968.5	883.0	832.4	826.1
60°	8241.5	2035.1	690.0	712.1	927.3	895.7	930.5	867.2	762.8	715.3	705.8
62.5°	3785.3	816.6	376.6	360.8	487.4	607.7	797.6	791.2	661.5	585.5	579.2
65°	917.8	373.5	269.0	253.2	275.4	364.0	519.1	623.5	534.9	446.3	436.8
67.5°	297.5	303.8	246.9	231.0	243.7	272.2	310.2	345.0	341.8	313.3	307.0
70°	237.4	275.4	227.9	208.9	208.9	218.4	208.9	167.7	145.6	158.2	164.6
72.5°	177.2	208.9	180.4	161.4	155.1	151.9	129.8	94.9	66.5	60.1	57.0
75°	104.4	117.1	110.8	94.9	88.6	79.1	63.3	41.1	22.2	15.8	9.5
77.5°	19.0	22.2	25.3	19.0	15.8	12.7	9.5	3.2	0.0	0.0	0.0
80°	0.0	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)