

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: P642676

Luminaire Tested: GWS-SA6D-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 21817.2 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

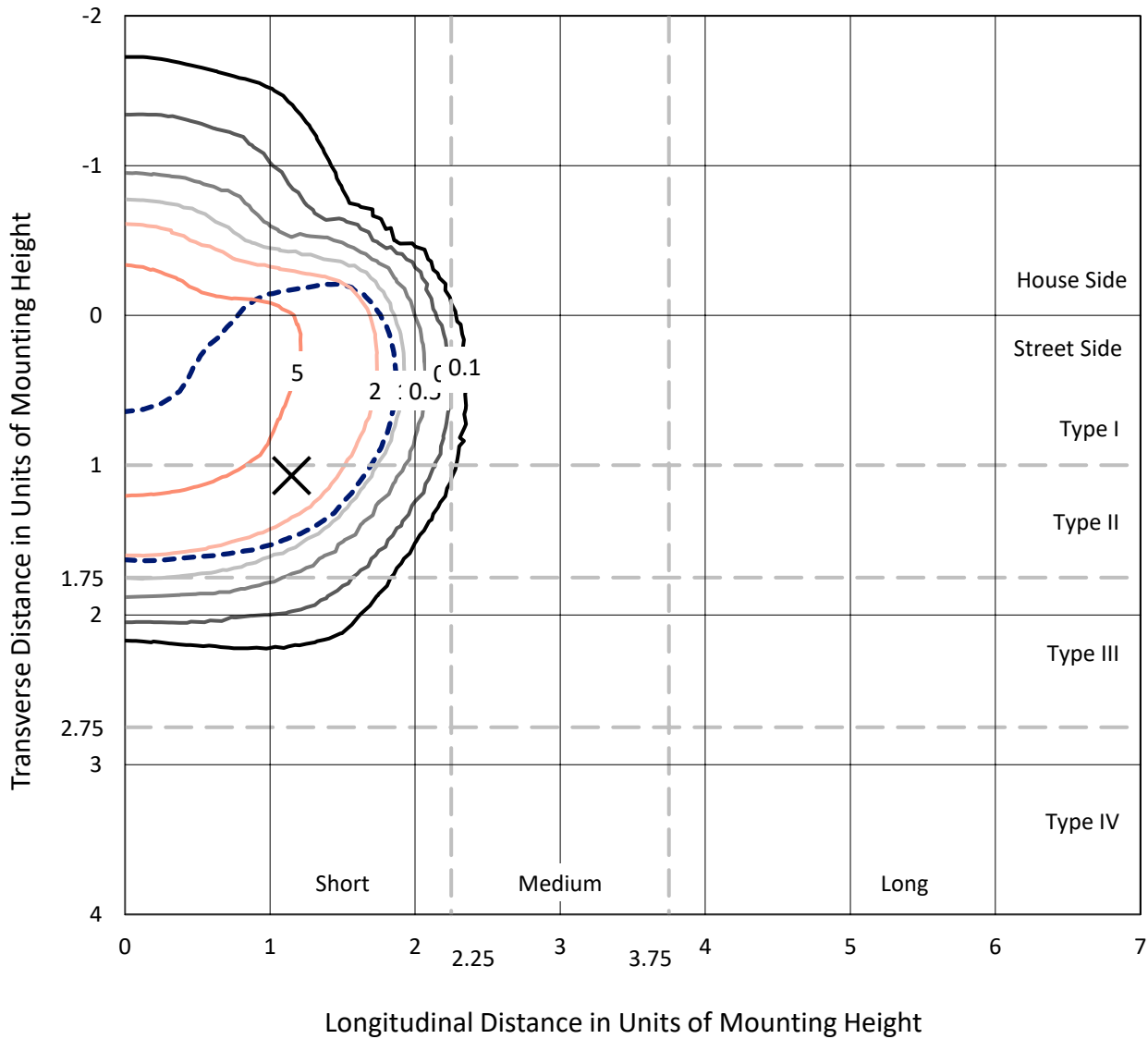
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

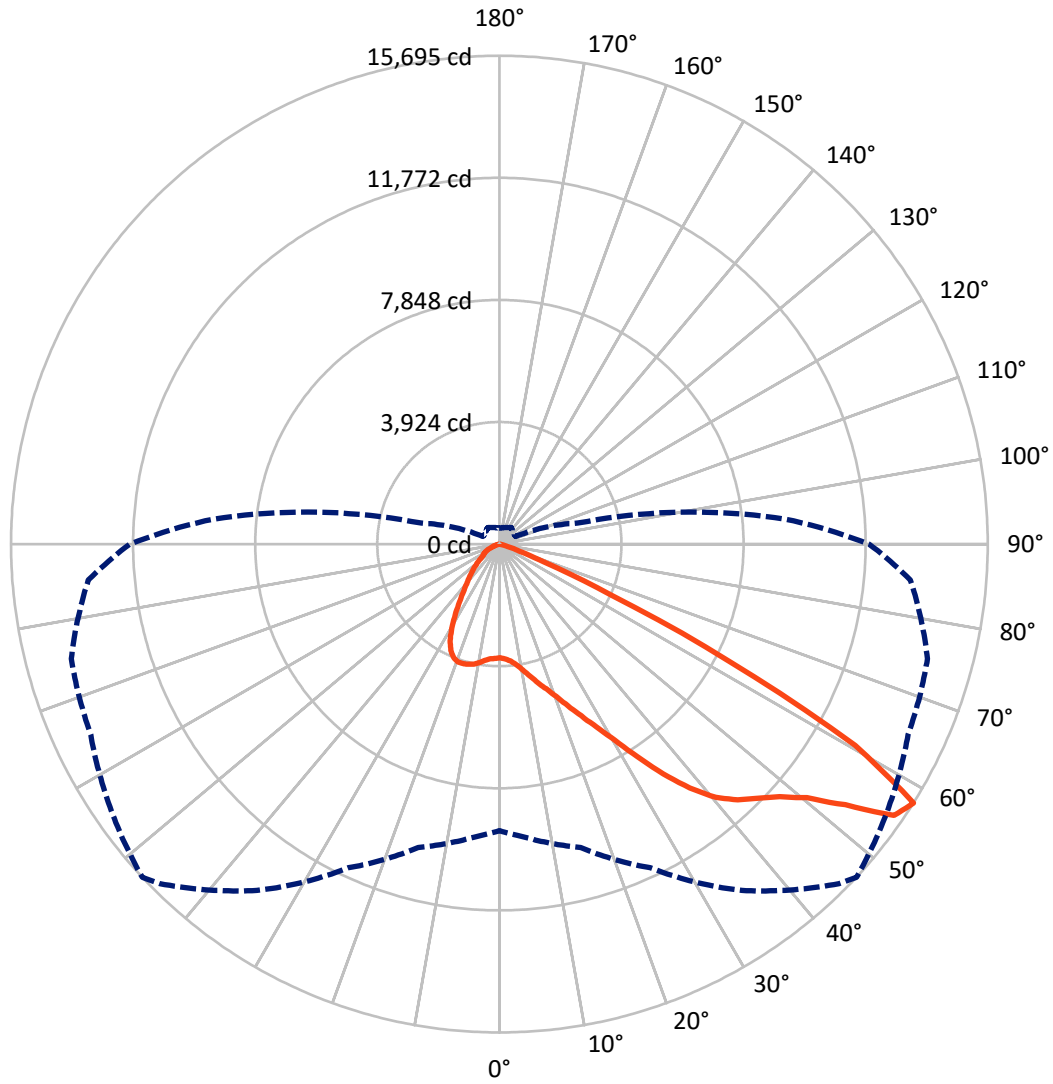
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4733.2	0.0	4733.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17084.0	0.0	17084.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	21817.2	0.0	21817.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	1.7
10°-20°	1226.0	5.6
20°-30°	2276.5	10.4
30°-40°	3644.2	16.7
40°-50°	5327.0	24.4
50°-60°	6574.4	30.1
60°-70°	2196.8	10.1
70°-80°	204.7	0.9
80°-90°	4.2	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°	21817.2	100.0
0°-180°	21817.2	100.0

Coefficient of Utilization



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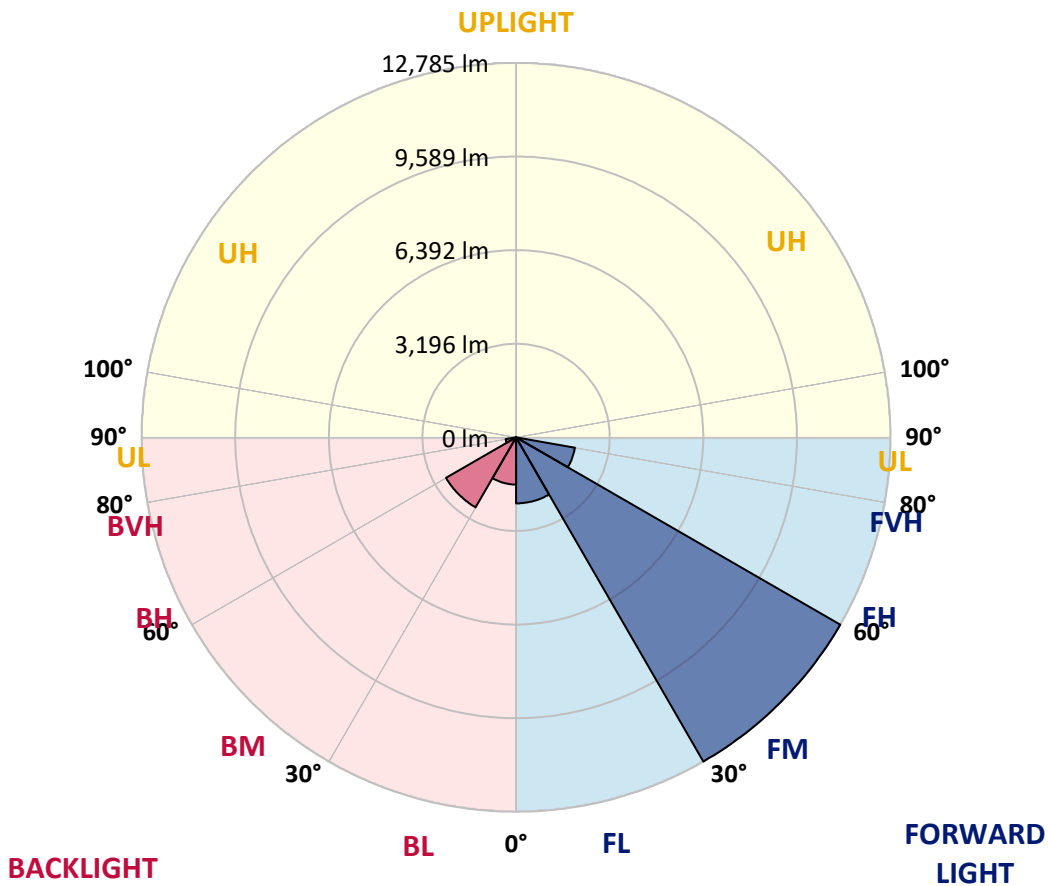
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.7	10.3			
FM (30°-60°)	12784.7	58.6			
FH (60°-80°)	2041.6	9.4			G2/5000
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1611.1	7.4	B3/2500		
BM (30°-60°)	2760.9	12.7	B3/5000		
BH (60°-80°)	359.9	1.6	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2
2.5°	3690.2	3687.7	3685.1	3700.3	3695.3	3692.7	3697.8	3697.8	3697.8	3682.6	3652.2
5°	3778.9	3778.9	3776.3	3791.5	3778.9	3771.3	3773.8	3773.8	3763.7	3735.8	3697.8
7.5°	3918.2	3913.1	3908.0	3923.2	3910.6	3908.0	3913.1	3897.9	3880.2	3834.6	3781.4
10°	4118.2	4118.2	4110.7	4125.8	4115.7	4110.7	4110.7	4100.5	4067.6	3996.7	3918.2
12.5°	4394.3	4381.7	4363.9	4351.3	4346.2	4343.7	4346.2	4331.0	4295.5	4204.4	4095.5
15°	4695.7	4685.6	4657.7	4637.5	4609.6	4604.5	4619.7	4607.1	4571.6	4447.5	4293.0
17.5°	5075.6	5088.3	5017.4	4974.3	4893.3	4888.2	4893.3	4913.5	4888.2	4728.6	4503.2
20°	5399.8	5409.9	5356.8	5326.4	5252.9	5220.0	5230.1	5263.1	5235.2	5047.8	4733.7
22.5°	5746.8	5759.5	5703.7	5640.4	5607.5	5607.5	5645.5	5691.1	5653.1	5407.4	4997.1
25°	6162.2	6172.3	6126.7	6043.1	5984.9	6058.3	6114.1	6235.6	6172.3	5838.0	5308.6
27.5°	6638.3	6640.9	6575.0	6488.9	6458.5	6595.3	6651.0	6838.4	6813.1	6321.7	5637.9
30°	7147.4	7149.9	7134.8	7076.5	7048.6	7228.5	7304.4	7575.4	7557.7	6922.0	6086.2
32.5°	7676.8	7676.8	7704.6	7699.6	7732.5	8026.3	8147.9	8456.8	8439.1	7656.5	6643.4
35°	8208.6	8211.2	8259.3	8380.9	8517.6	8907.7	9067.2	9442.1	9401.6	8535.4	7355.1
37.5°	8814.0	8788.6	8854.5	9036.8	9340.8	9791.6	9943.6	10300.7	10255.1	9434.5	8284.6
40°	9543.4	9497.8	9497.8	9710.6	10055.0	10574.2	10703.4	10880.7	10726.2	10161.4	9196.4
42.5°	10348.8	10305.8	10250.0	10437.5	10726.2	11131.4	11237.8	11189.7	11063.0	10847.8	10234.8
45°	11164.4	11098.5	11136.5	11250.5	11417.6	11610.1	11650.6	11427.8	11369.5	11430.3	11093.4
47.5°	11784.9	11739.3	11833.0	11992.6	12129.3	12157.2	12129.3	11820.3	11815.3	12030.6	11688.6
50°	11992.6	11997.6	12256.0	12605.5	12825.8	12848.6	12810.6	12456.1	12407.9	12471.3	12010.3
52.5°	12012.8	12033.1	12410.5	13076.6	13676.8	13950.4	13920.0	13537.5	13066.4	12998.1	12496.6
55°	11524.0	11643.0	12169.9	13142.4	14418.9	15292.7	15394.0	14662.1	13963.0	13904.8	13542.6
57.5°	9211.6	9454.7	10090.5	11475.9	13590.7	15432.0	15695.4	15168.6	14492.4	14244.2	13261.5
60°	5506.2	5807.6	6418.0	8117.5	10343.7	12684.0	13137.4	13210.8	12899.3	12182.5	10174.0
62.5°	2363.1	2337.7	3090.0	4391.8	6152.0	8061.7	8266.9	8586.0	8857.0	8107.3	6174.8
65°	810.5	881.4	1225.9	1980.6	3079.8	3743.4	3925.8	4212.0	4596.9	3794.1	2261.7
67.5°	501.5	531.9	706.6	1170.1	1661.5	1636.2	1555.1	1509.5	1469.0	1005.5	620.5
70°	364.7	390.0	496.4	805.4	1116.9	785.2	681.3	552.1	612.9	564.8	440.7
72.5°	245.7	265.9	341.9	488.8	572.4	382.4	354.6	402.7	486.3	463.5	359.7
75°	146.9	159.6	195.0	238.1	233.0	197.6	200.1	283.7	372.3	347.0	255.8
77.5°	101.3	106.4	129.2	154.5	114.0	60.8	55.7	78.5	126.6	126.6	86.1
80°	25.3	32.9	32.9	20.3	17.7	15.2	15.2	22.8	35.5	25.3	12.7
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1	5.1
85°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1
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°	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2
2.5°	3670.0	3639.6	3659.8	3654.8	3670.0	3675.0	3652.2	3647.2	3649.7	3619.3	3609.2
5°	3705.4	3670.0	3680.1	3670.0	3687.7	3702.9	3695.3	3705.4	3718.1	3695.3	3685.1
7.5°	3781.4	3745.9	3743.4	3728.2	3753.5	3763.7	3761.1	3789.0	3814.3	3799.1	3783.9
10°	3913.1	3865.0	3859.9	3847.2	3854.8	3862.4	3834.6	3839.6	3862.4	3844.7	3837.1
12.5°	4075.2	4016.9	4004.3	3973.9	3973.9	3935.9	3875.1	3862.4	3880.2	3867.5	3854.8
15°	4250.0	4171.4	4151.2	4098.0	4047.3	3976.4	3913.1	3897.9	3910.6	3895.4	3885.2
17.5°	4445.0	4356.3	4290.5	4196.8	4085.3	4001.7	3930.8	3897.9	3877.6	3847.2	3844.7
20°	4637.5	4521.0	4409.5	4260.1	4113.2	3986.5	3870.0	3783.9	3710.5	3664.9	3647.2
22.5°	4860.3	4688.1	4508.3	4298.1	4087.9	3895.4	3690.2	3543.3	3416.7	3373.6	3353.4
25°	5098.4	4875.5	4607.1	4333.5	4001.7	3692.7	3414.1	3196.3	3029.2	2973.4	2950.7
27.5°	5361.8	5055.4	4708.4	4325.9	3824.4	3404.0	3034.2	2763.2	2598.6	2547.9	2565.7
30°	5696.2	5288.4	4835.0	4247.4	3558.5	2998.8	2565.7	2337.7	2213.6	2165.5	2168.0
32.5°	6141.9	5622.7	5019.9	4080.3	3216.6	2537.8	2157.9	1990.7	1907.2	1843.8	1838.8
35°	6780.2	6131.8	5192.1	3811.8	2801.2	2127.5	1851.4	1719.7	1603.2	1529.8	1542.4
37.5°	7545.1	6772.6	5285.8	3449.6	2335.2	1808.4	1621.0	1486.7	1355.0	1246.1	1258.8
40°	8451.8	7610.9	5278.2	2973.4	1909.7	1590.6	1428.5	1271.4	1106.8	1008.0	1018.2
42.5°	9462.3	8403.7	5113.6	2469.4	1583.0	1413.3	1243.6	1046.0	886.5	825.7	828.2
45°	10338.7	9047.0	4824.9	1947.7	1332.2	1241.0	1051.1	848.5	777.6	734.5	732.0
47.5°	10987.1	9518.1	4412.0	1532.3	1129.6	1084.0	863.7	759.8	704.1	668.6	663.6
50°	11349.2	9682.7	3956.2	1200.5	954.8	919.4	772.5	688.9	650.9	628.1	623.1
52.5°	11835.5	9880.3	3629.4	947.2	800.3	752.2	711.7	640.8	615.5	597.7	590.1
55°	12605.5	10262.7	3345.8	752.2	666.1	656.0	671.2	612.9	597.7	569.9	559.7
57.5°	11881.1	9219.2	2598.6	582.5	562.3	600.3	648.4	585.1	547.1	521.7	511.6
60°	8360.6	6129.3	1306.9	468.6	501.5	562.3	610.4	529.3	491.4	496.4	491.4
62.5°	4609.6	3067.2	587.6	392.6	435.6	496.4	521.7	458.4	433.1	476.2	483.8
65°	1507.0	1043.5	339.4	303.9	344.5	405.2	450.8	435.6	430.6	481.2	496.4
67.5°	463.5	344.5	230.5	217.8	238.1	298.9	379.9	471.1	506.5	521.7	529.3
70°	347.0	271.0	197.6	184.9	195.0	227.9	321.7	392.6	369.8	372.3	367.2
72.5°	278.6	215.3	169.7	162.1	162.1	157.0	169.7	212.8	240.6	253.3	253.3
75°	195.0	152.0	129.2	119.0	93.7	76.0	68.4	68.4	60.8	58.3	55.7
77.5°	65.9	55.7	50.7	40.5	27.9	22.8	20.3	17.7	12.7	7.6	5.1
80°	10.1	7.6	5.1	5.1	5.1	2.5	2.5	2.5	0.0	0.0	0.0
82.5°	5.1	5.1	5.1	5.1	5.1	2.5	2.5	0.0	0.0	0.0	0.0
85°	5.1	5.1	5.1	5.1	5.1	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	2.5	2.5	2.5	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)