

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: P640696

Luminaire Tested: GWS-SA5E-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640696
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-SA5E-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22864.1 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

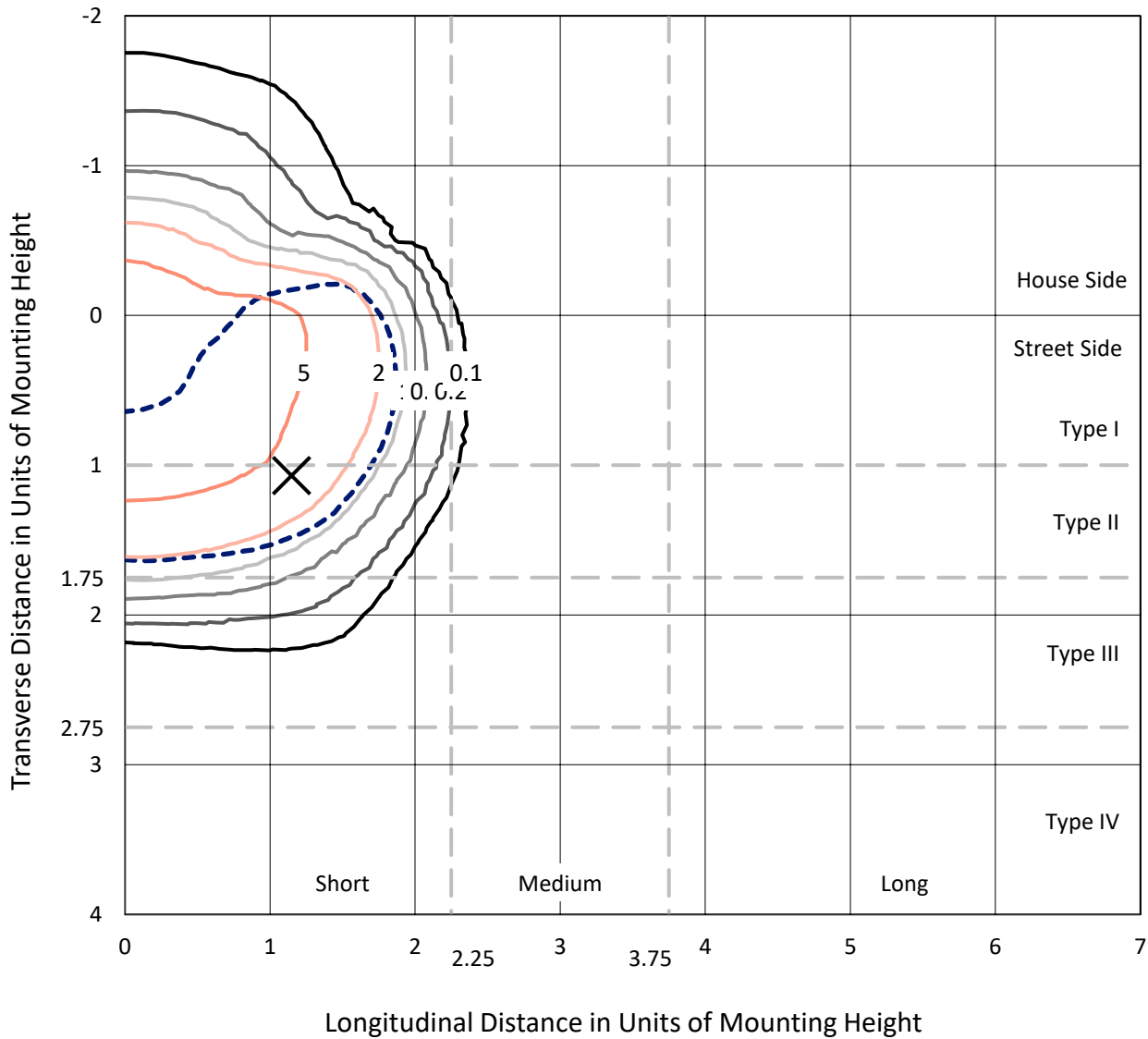
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

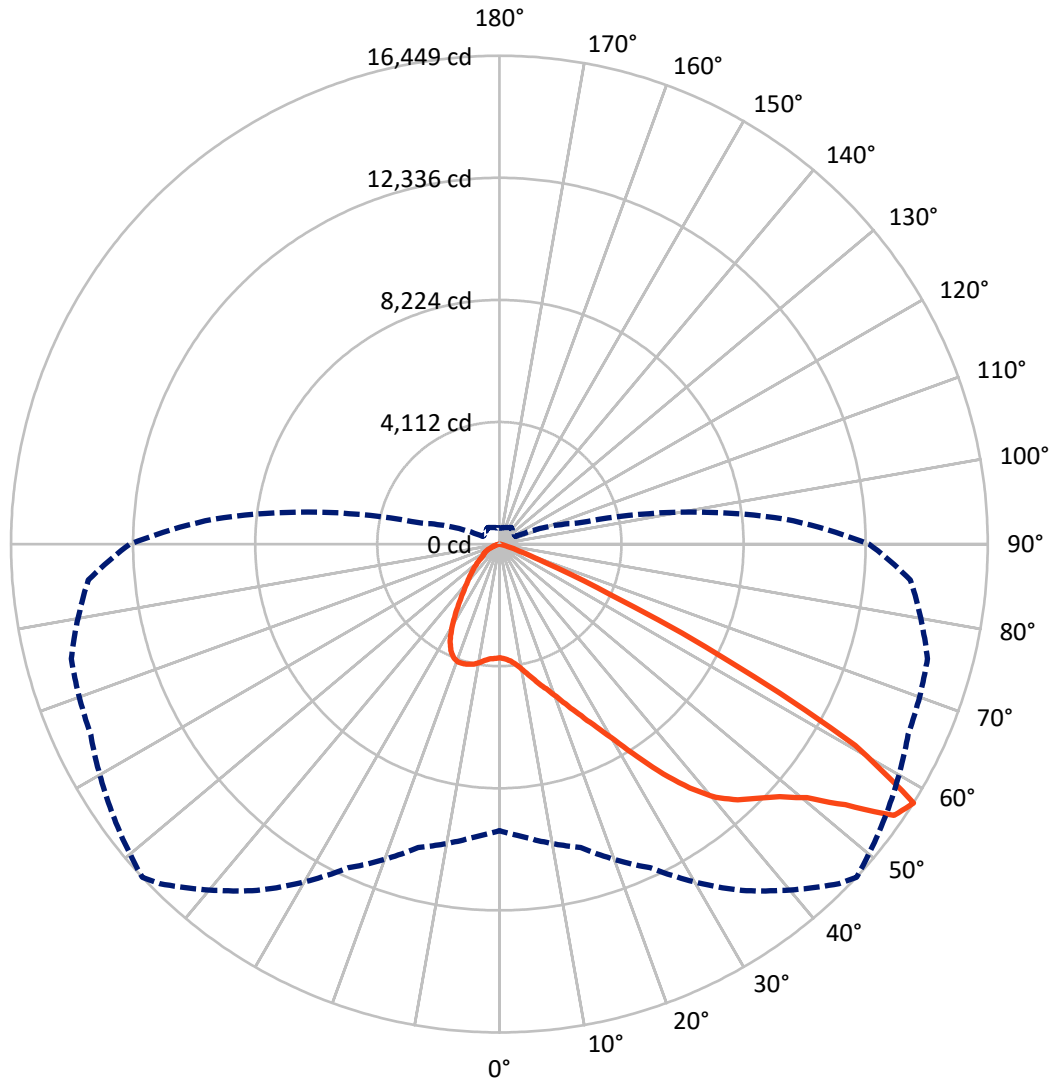
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	4960.4	0.0	4960.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17903.8	0.0	17903.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	22864.1	0.0	22864.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	1.7
10°-20°	1284.9	5.6
20°-30°	2385.7	10.4
30°-40°	3819.1	16.7
40°-50°	5582.6	24.4
50°-60°	6889.9	30.1
60°-70°	2302.2	10.1
70°-80°	214.5	0.9
80°-90°	4.5	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°	22864.1	100.0
0°-180°	22864.1	100.0

Coefficient of Utilization



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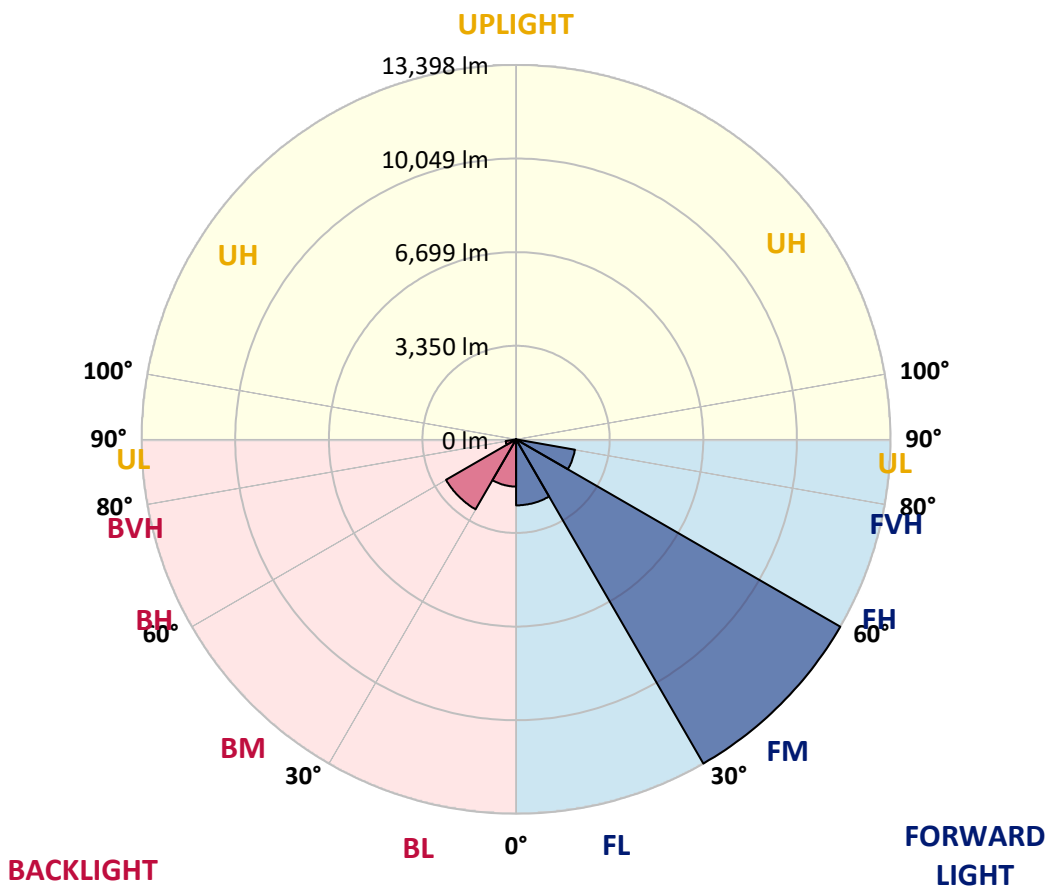
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.9	10.3			
FM (30°-60°)	13398.2	58.6			
FH (60°-80°)	2139.6	9.4			G2/5000
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	1688.4	7.4	B3/2500		
BM (30°-60°)	2893.4	12.7	B3/5000		
BH (60°-80°)	377.1	1.6	B1/500		G1/500
BVH (80°-90°)	1.4	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°	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5
2.5°	3867.3	3864.6	3862.0	3877.9	3872.6	3869.9	3875.3	3875.3	3875.3	3859.3	3827.5
5°	3960.2	3960.2	3957.5	3973.5	3960.2	3952.2	3954.9	3954.9	3944.3	3915.1	3875.3
7.5°	4106.2	4100.9	4095.6	4111.5	4098.2	4095.6	4100.9	4084.9	4066.4	4018.6	3962.8
10°	4315.9	4315.9	4307.9	4323.8	4313.2	4307.9	4307.9	4297.3	4262.8	4188.5	4106.2
12.5°	4605.2	4591.9	4573.3	4560.1	4554.7	4552.1	4554.7	4538.8	4501.7	4406.1	4292.0
15°	4921.0	4910.4	4881.2	4860.0	4830.8	4825.5	4841.4	4828.1	4791.0	4660.9	4499.0
17.5°	5319.2	5332.5	5258.1	5213.0	5128.1	5122.8	5128.1	5149.3	5122.8	4955.5	4719.3
20°	5658.9	5669.5	5613.8	5582.0	5505.0	5470.5	5481.1	5515.6	5486.4	5290.0	4960.9
22.5°	6022.6	6035.8	5977.4	5911.1	5876.6	5876.6	5916.4	5964.2	5924.4	5666.9	5236.9
25°	6457.9	6468.5	6420.7	6333.1	6272.1	6349.0	6407.4	6534.8	6468.5	6118.1	5563.4
27.5°	6956.9	6959.5	6890.5	6800.3	6768.4	6911.8	6970.1	7166.6	7140.0	6625.1	5908.4
30°	7490.4	7493.0	7477.1	7416.1	7386.9	7575.3	7654.9	7939.0	7920.4	7254.2	6378.2
32.5°	8045.1	8045.1	8074.3	8069.0	8103.5	8411.4	8538.8	8862.6	8844.1	8023.9	6962.2
35°	8602.5	8605.2	8655.6	8783.0	8926.4	9335.1	9502.3	9895.2	9852.7	8944.9	7708.0
37.5°	9236.9	9210.4	9279.4	9470.5	9789.0	10261.5	10420.7	10795.0	10747.2	9887.2	8682.2
40°	10001.3	9953.6	9953.6	10176.5	10537.5	11081.6	11217.0	11402.8	11240.9	10649.0	9637.7
42.5°	10845.4	10800.3	10741.9	10938.3	11240.9	11665.6	11777.1	11726.6	11593.9	11368.3	10726.0
45°	11700.1	11631.1	11670.9	11790.3	11965.5	12167.2	12209.7	11976.1	11915.1	11978.8	11625.8
47.5°	12350.4	12302.6	12400.8	12568.0	12711.4	12740.6	12711.4	12387.5	12382.2	12607.8	12249.5
50°	12568.0	12573.3	12844.1	13210.4	13441.3	13465.2	13425.4	13053.8	13003.3	13069.7	12586.6
52.5°	12589.3	12610.5	13006.0	13704.1	14333.1	14619.8	14587.9	14187.1	13693.4	13621.8	13096.2
55°	12077.0	12201.7	12753.8	13773.1	15110.8	16026.6	16132.7	15365.6	14633.1	14572.0	14192.4
57.5°	9653.6	9908.4	10574.7	12026.6	14242.9	16172.5	16448.6	15896.5	15187.8	14927.7	13897.8
60°	5770.4	6086.3	6726.0	8507.0	10840.1	13292.6	13767.8	13844.7	13518.3	12767.1	10662.3
62.5°	2476.4	2449.9	3238.2	4602.5	6447.3	8448.6	8663.6	8998.0	9282.0	8496.4	6471.1
65°	849.4	923.7	1284.7	2075.6	3227.6	3923.0	4114.1	4414.1	4817.5	3976.1	2370.3
67.5°	525.5	557.4	740.5	1226.3	1741.2	1714.7	1629.7	1582.0	1539.5	1053.8	650.3
70°	382.2	408.8	520.2	844.1	1170.5	822.8	714.0	578.6	642.3	591.9	461.8
72.5°	257.5	278.7	358.3	512.3	599.9	400.8	371.6	422.0	509.6	485.7	376.9
75°	153.9	167.2	204.4	249.5	244.2	207.0	209.7	297.3	390.2	363.6	268.1
77.5°	106.2	111.5	135.4	161.9	119.4	63.7	58.4	82.3	132.7	132.7	90.2
80°	26.5	34.5	34.5	21.2	18.6	15.9	15.9	23.9	37.2	26.5	13.3
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3	5.3	5.3
85°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3	5.3
87.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3
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°	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5	3827.5
2.5°	3846.1	3814.2	3835.4	3830.1	3846.1	3851.4	3827.5	3822.2	3824.8	3793.0	3782.4
5°	3883.2	3846.1	3856.7	3846.1	3864.6	3880.6	3872.6	3883.2	3896.5	3872.6	3862.0
7.5°	3962.8	3925.7	3923.0	3907.1	3933.6	3944.3	3941.6	3970.8	3997.3	3981.4	3965.5
10°	4100.9	4050.4	4045.1	4031.9	4039.8	4047.8	4018.6	4023.9	4047.8	4029.2	4021.2
12.5°	4270.7	4209.7	4196.4	4164.6	4164.6	4124.8	4061.1	4047.8	4066.4	4053.1	4039.8
15°	4453.9	4371.6	4350.4	4294.6	4241.5	4167.2	4100.9	4084.9	4098.2	4082.3	4071.7
17.5°	4658.3	4565.4	4496.4	4398.1	4281.4	4193.8	4119.4	4084.9	4063.7	4031.9	4029.2
20°	4860.0	4737.9	4621.1	4464.5	4310.6	4177.8	4055.7	3965.5	3888.5	3840.7	3822.2
22.5°	5093.6	4913.1	4724.6	4504.3	4284.0	4082.3	3867.3	3713.3	3580.6	3535.5	3514.3
25°	5343.1	5109.5	4828.1	4541.5	4193.8	3869.9	3578.0	3349.7	3174.5	3116.1	3092.2
27.5°	5619.1	5297.9	4934.3	4533.5	4008.0	3567.4	3179.8	2895.8	2723.3	2670.2	2688.8
30°	5969.5	5542.1	5067.0	4451.2	3729.3	3142.7	2688.8	2449.9	2319.8	2269.4	2272.1
32.5°	6436.6	5892.5	5260.8	4276.0	3370.9	2659.6	2261.4	2086.3	1998.7	1932.3	1927.0
35°	7105.5	6426.0	5441.3	3994.7	2935.6	2229.6	1940.3	1802.3	1680.2	1603.2	1616.5
37.5°	7907.1	7097.6	5539.5	3615.1	2447.2	1895.2	1698.7	1558.1	1420.0	1305.9	1319.2
40°	8857.3	7976.1	5531.5	3116.1	2001.3	1666.9	1497.0	1332.4	1159.9	1056.4	1067.0
42.5°	9916.4	8806.9	5359.0	2587.9	1658.9	1481.1	1303.3	1096.2	929.0	865.3	868.0
45°	10834.8	9481.1	5056.4	2041.1	1396.2	1300.6	1101.5	889.2	814.9	769.7	767.1
47.5°	11514.3	9974.8	4623.8	1605.8	1183.8	1136.0	905.1	796.3	737.9	700.7	695.4
50°	11893.8	10147.3	4146.0	1258.1	1000.7	963.5	809.6	722.0	682.2	658.3	653.0
52.5°	12403.5	10354.4	3803.6	992.7	838.8	788.3	745.9	671.5	645.0	626.4	618.4
55°	13210.4	10755.2	3506.3	788.3	698.1	687.5	703.4	642.3	626.4	597.2	586.6
57.5°	12451.2	9661.6	2723.3	610.5	589.3	629.1	679.5	613.1	573.3	546.8	536.2
60°	8761.8	6423.4	1369.6	491.0	525.5	589.3	639.7	554.7	514.9	520.2	514.9
62.5°	4830.8	3214.3	615.8	411.4	456.5	520.2	546.8	480.4	453.9	499.0	507.0
65°	1579.3	1093.6	355.7	318.5	361.0	424.7	472.5	456.5	451.2	504.3	520.2
67.5°	485.7	361.0	241.5	228.3	249.5	313.2	398.1	493.7	530.9	546.8	554.7
70°	363.6	284.0	207.0	193.8	204.4	238.9	337.1	411.4	387.5	390.2	384.9
72.5°	292.0	225.6	177.8	169.9	169.9	164.6	177.8	223.0	252.2	265.4	265.4
75°	204.4	159.3	135.4	124.8	98.2	79.6	71.7	71.7	63.7	61.0	58.4
77.5°	69.0	58.4	53.1	42.5	29.2	23.9	21.2	18.6	13.3	8.0	5.3
80°	10.6	8.0	5.3	5.3	5.3	2.7	2.7	2.7	0.0	0.0	0.0
82.5°	5.3	5.3	5.3	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0
85°	5.3	5.3	5.3	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	5.3	5.3	5.3	5.3	2.7	2.7	2.7	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)