

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: P638716

Luminaire Tested: GWS-SA4F-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638716
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-SA4F-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20722.7 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

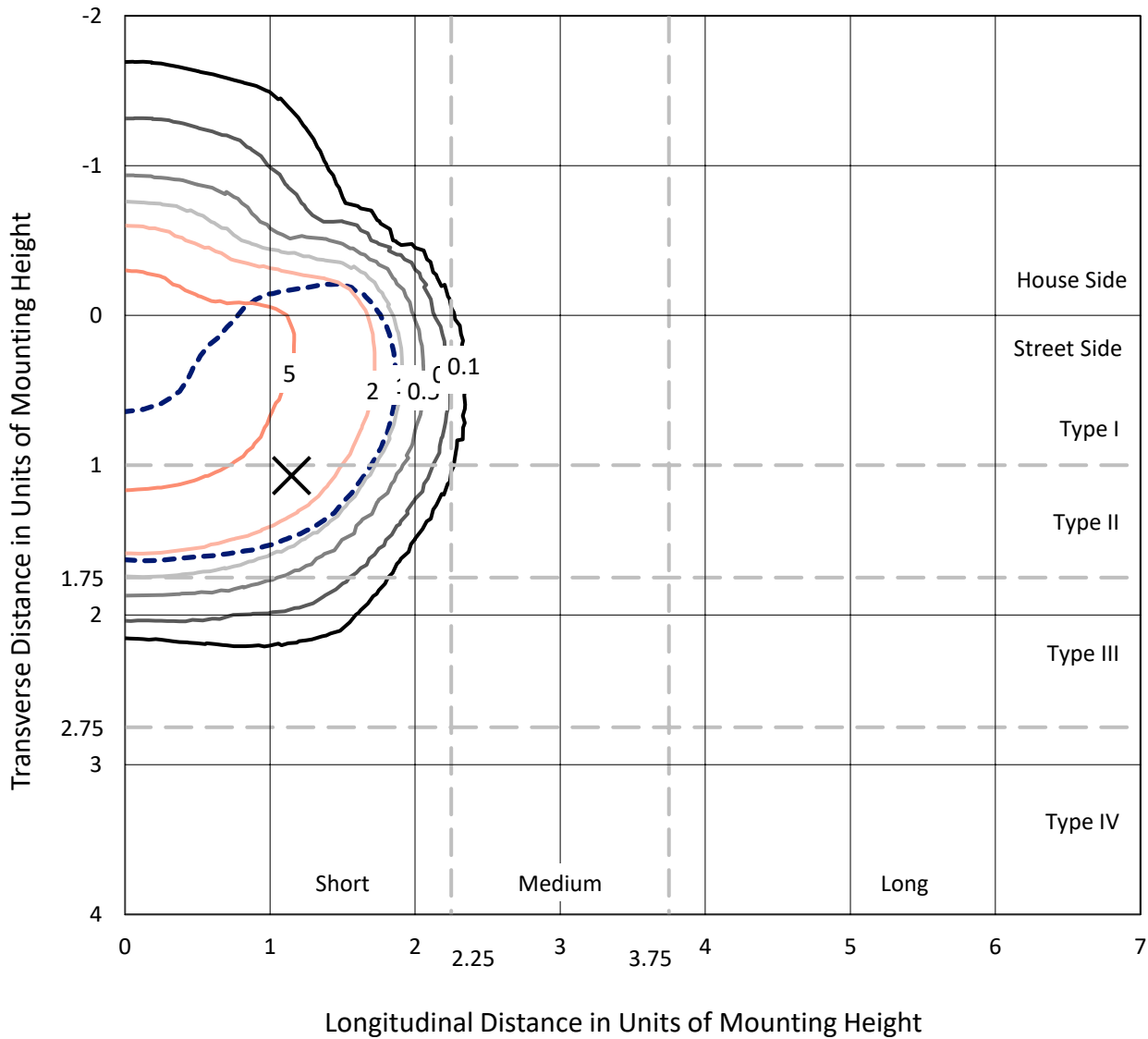
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

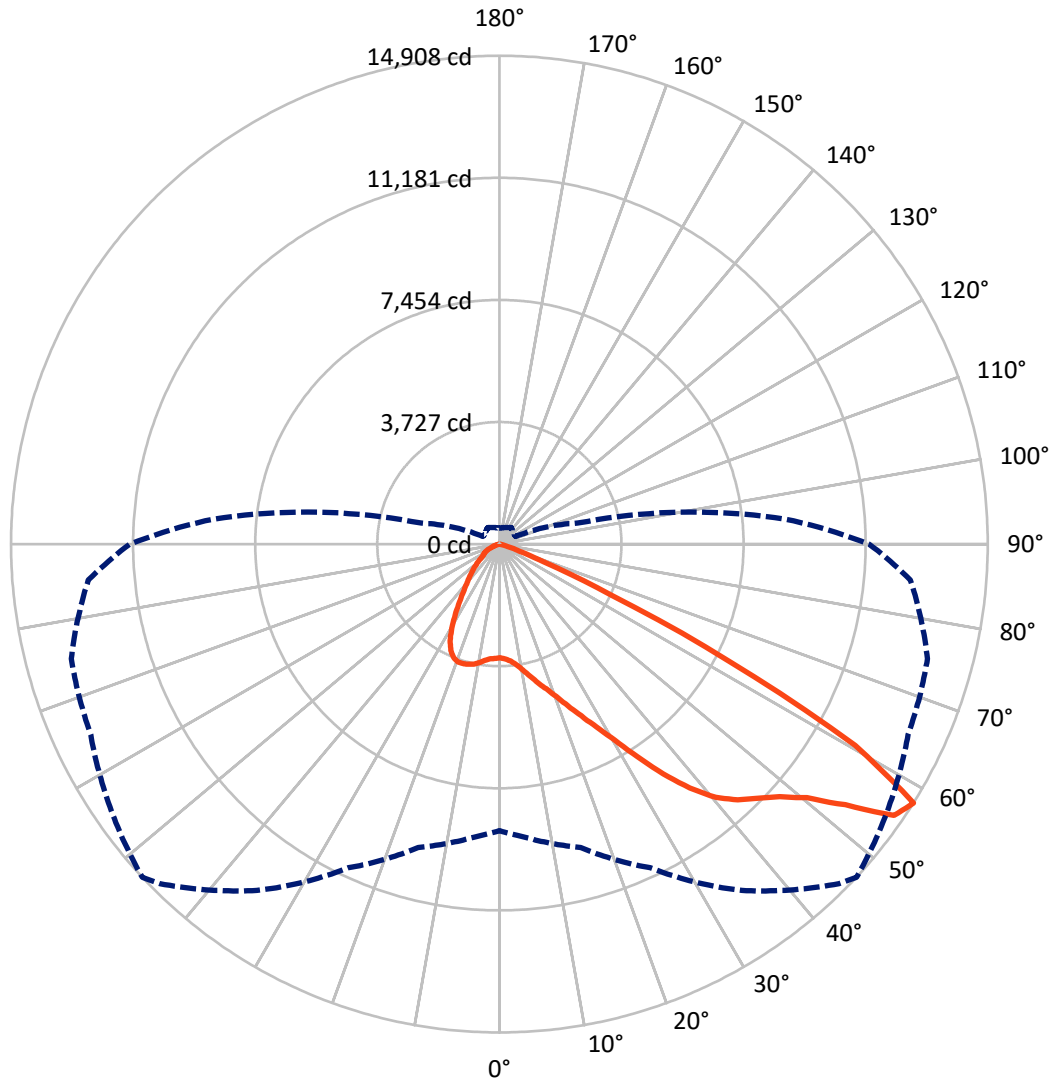
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	4495.8	0.0	4495.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16226.9	0.0	16226.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	20722.7	0.0	20722.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	1.7
10°-20°	1164.5	5.6
20°-30°	2162.3	10.4
30°-40°	3461.4	16.7
40°-50°	5059.7	24.4
50°-60°	6244.6	30.1
60°-70°	2086.6	10.1
70°-80°	194.4	0.9
80°-90°	4.0	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°	20722.7	100.0
0°-180°	20722.7	100.0

Coefficient of Utilization



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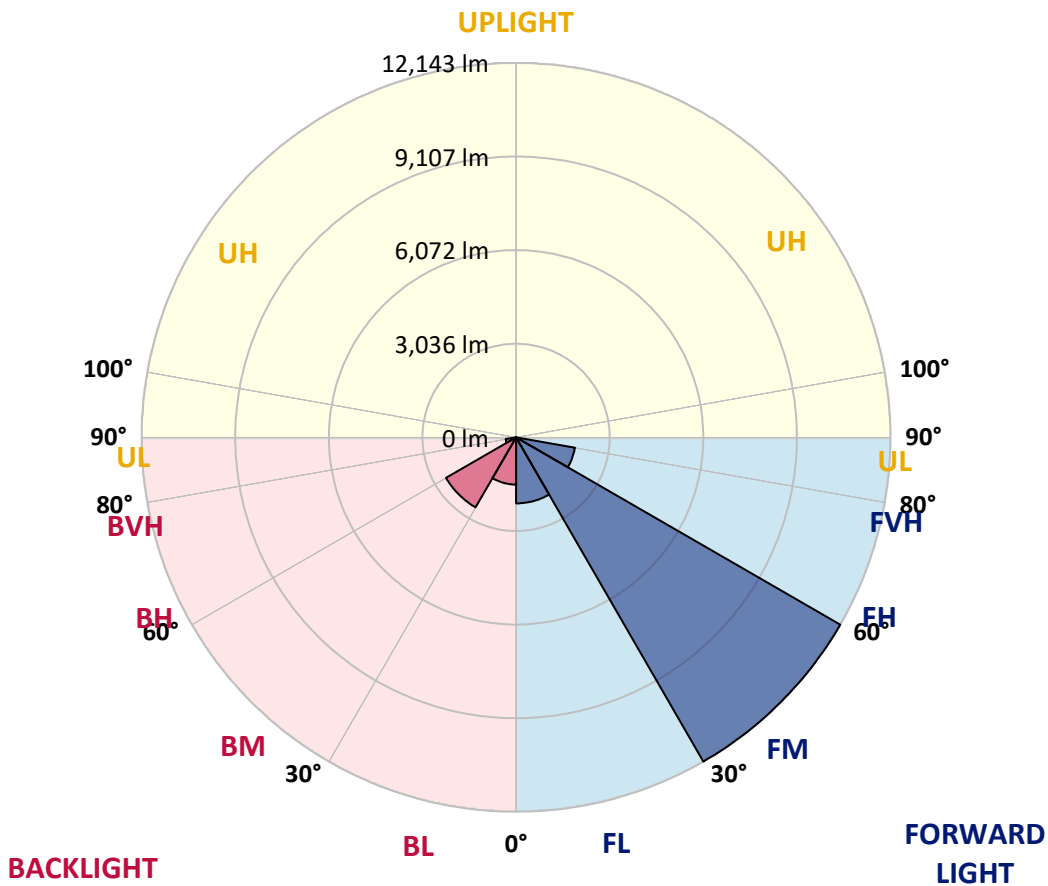
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.6	10.3			
FM (30°-60°)	12143.3	58.6			
FH (60°-80°)	1939.2	9.4			G2/5000
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1530.3	7.4	B3/2500		
BM (30°-60°)	2622.4	12.7	B3/5000		
BH (60°-80°)	341.8	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°	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0
2.5°	3505.1	3502.7	3500.3	3514.7	3509.9	3507.5	3512.3	3512.3	3512.3	3497.9	3469.0
5°	3589.3	3589.3	3586.9	3601.3	3589.3	3582.1	3584.5	3584.5	3574.9	3548.4	3512.3
7.5°	3721.6	3716.8	3712.0	3726.4	3714.4	3712.0	3716.8	3702.4	3685.5	3642.2	3591.7
10°	3911.6	3911.6	3904.4	3918.9	3909.2	3904.4	3904.4	3894.8	3863.5	3796.2	3721.6
12.5°	4173.9	4161.8	4145.0	4133.0	4128.2	4125.8	4128.2	4113.7	4080.0	3993.4	3890.0
15°	4460.1	4450.5	4424.1	4404.8	4378.4	4373.5	4388.0	4375.9	4342.3	4224.4	4077.6
17.5°	4821.0	4833.0	4765.7	4724.8	4647.8	4643.0	4647.8	4667.0	4643.0	4491.4	4277.3
20°	5128.9	5138.5	5088.0	5059.2	4989.4	4958.1	4967.7	4999.0	4972.6	4794.5	4496.2
22.5°	5458.5	5470.5	5417.6	5357.5	5326.2	5326.2	5362.3	5405.6	5369.5	5136.1	4746.4
25°	5853.0	5862.7	5819.4	5740.0	5684.6	5754.4	5807.3	5922.8	5862.7	5545.1	5042.3
27.5°	6305.3	6307.7	6245.2	6163.4	6134.5	6264.4	6317.3	6495.4	6471.3	6004.6	5355.1
30°	6788.9	6791.3	6776.8	6721.5	6695.0	6865.8	6938.0	7195.4	7178.6	6574.7	5780.9
32.5°	7291.6	7291.6	7318.1	7313.3	7344.6	7623.6	7739.1	8032.6	8015.8	7272.4	6310.1
35°	7796.8	7799.2	7844.9	7960.4	8090.3	8460.8	8612.4	8968.4	8929.9	8107.2	6986.1
37.5°	8371.8	8347.7	8410.3	8583.5	8872.2	9300.4	9444.7	9783.9	9740.6	8961.2	7869.0
40°	9064.6	9021.3	9021.3	9223.4	9550.6	10043.7	10166.4	10334.8	10188.1	9651.6	8735.1
42.5°	9829.6	9788.7	9735.8	9913.8	10188.1	10573.0	10674.0	10628.3	10508.0	10303.6	9721.4
45°	10604.3	10541.7	10577.8	10686.1	10844.8	11027.7	11066.2	10854.5	10799.1	10856.9	10536.9
47.5°	11193.7	11150.4	11239.4	11390.9	11520.8	11547.3	11520.8	11227.3	11222.5	11427.0	11102.3
50°	11390.9	11395.7	11641.1	11973.1	12182.4	12204.1	12168.0	11831.2	11785.5	11845.6	11407.8
52.5°	11410.2	11429.4	11787.9	12420.6	12990.7	13250.5	13221.7	12858.4	12410.9	12346.0	11869.7
55°	10945.9	11058.9	11559.3	12483.1	13695.6	14525.5	14621.8	13926.5	13262.6	13207.2	12863.2
57.5°	8749.5	8980.4	9584.3	10900.2	12908.9	14657.9	14908.0	14407.7	13765.3	13529.6	12596.2
60°	5230.0	5516.2	6096.0	7710.2	9824.8	12047.7	12478.3	12548.1	12252.2	11571.4	9663.6
62.5°	2244.5	2220.5	2934.9	4171.5	5843.4	7657.3	7852.2	8155.3	8412.7	7700.6	5865.1
65°	769.8	837.2	1164.4	1881.2	2925.3	3555.6	3728.8	4000.7	4366.3	3603.7	2148.3
67.5°	476.3	505.2	671.2	1111.4	1578.1	1554.1	1477.1	1433.8	1395.3	955.1	589.4
70°	346.4	370.5	471.5	765.0	1060.9	745.8	647.1	524.4	582.2	536.5	418.6
72.5°	233.4	252.6	324.8	464.3	543.7	363.3	336.8	382.5	461.9	440.2	341.6
75°	139.5	151.6	185.2	226.1	221.3	187.6	190.0	269.4	353.6	329.6	243.0
77.5°	96.2	101.0	122.7	146.7	108.3	57.7	52.9	74.6	120.3	120.3	81.8
80°	24.1	31.3	31.3	19.2	16.8	14.4	14.4	21.7	33.7	24.1	12.0
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	4.8
85°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8
87.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8
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°	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0
2.5°	3485.8	3457.0	3476.2	3471.4	3485.8	3490.7	3469.0	3464.2	3466.6	3437.7	3428.1
5°	3519.5	3485.8	3495.5	3485.8	3502.7	3517.1	3509.9	3519.5	3531.6	3509.9	3500.3
7.5°	3591.7	3558.0	3555.6	3541.2	3565.2	3574.9	3572.4	3598.9	3623.0	3608.5	3594.1
10°	3716.8	3671.1	3666.3	3654.2	3661.5	3668.7	3642.2	3647.0	3668.7	3651.8	3644.6
12.5°	3870.8	3815.4	3803.4	3774.5	3774.5	3738.4	3680.7	3668.7	3685.5	3673.5	3661.5
15°	4036.7	3962.2	3942.9	3892.4	3844.3	3776.9	3716.8	3702.4	3714.4	3699.9	3690.3
17.5°	4222.0	4137.8	4075.2	3986.2	3880.4	3801.0	3733.6	3702.4	3683.1	3654.2	3651.8
20°	4404.8	4294.2	4188.3	4046.4	3906.8	3786.6	3675.9	3594.1	3524.3	3481.0	3464.2
22.5°	4616.5	4452.9	4282.1	4082.5	3882.8	3699.9	3505.1	3365.6	3245.3	3204.4	3185.1
25°	4842.7	4630.9	4375.9	4116.1	3801.0	3507.5	3242.9	3036.0	2877.2	2824.3	2802.6
27.5°	5092.8	4801.8	4472.2	4108.9	3632.6	3233.2	2882.0	2624.6	2468.2	2420.1	2437.0
30°	5410.4	5023.1	4592.5	4034.3	3380.0	2848.3	2437.0	2220.5	2102.6	2056.9	2059.3
32.5°	5833.8	5340.6	4768.1	3875.6	3055.2	2410.5	2049.6	1890.9	1811.5	1751.3	1746.5
35°	6440.0	5824.2	4931.7	3620.6	2660.7	2020.8	1758.6	1633.5	1522.8	1453.0	1465.1
37.5°	7166.5	6432.8	5020.7	3276.5	2218.0	1717.7	1539.6	1412.1	1287.0	1183.6	1195.6
40°	8027.8	7229.1	5013.5	2824.3	1813.9	1510.8	1356.8	1207.7	1051.3	957.5	967.1
42.5°	8987.7	7982.1	4857.1	2345.5	1503.6	1342.4	1181.2	993.5	842.0	784.3	786.7
45°	9820.0	8593.1	4582.8	1850.0	1265.4	1178.8	998.4	805.9	738.5	697.6	695.2
47.5°	10435.9	9040.6	4190.7	1455.4	1072.9	1029.6	820.3	721.7	668.8	635.1	630.3
50°	10779.9	9196.9	3757.7	1140.3	906.9	873.3	733.7	654.3	618.3	596.6	591.8
52.5°	11241.8	9384.6	3447.4	899.7	760.2	714.5	676.0	608.6	584.6	567.7	560.5
55°	11973.1	9747.8	3177.9	714.5	632.7	623.1	637.5	582.2	567.7	541.3	531.7
57.5°	11285.1	8756.7	2468.2	553.3	534.1	570.1	615.9	555.7	519.6	495.6	485.9
60°	7941.2	5821.8	1241.3	445.1	476.3	534.1	579.8	502.8	466.7	471.5	466.7
62.5°	4378.4	2913.3	558.1	372.9	413.8	471.5	495.6	435.4	411.4	452.3	459.5
65°	1431.4	991.1	322.4	288.7	327.2	384.9	428.2	413.8	409.0	457.1	471.5
67.5°	440.2	327.2	218.9	206.9	226.1	283.9	360.9	447.5	481.1	495.6	502.8
70°	329.6	257.4	187.6	175.6	185.2	216.5	305.5	372.9	351.2	353.6	348.8
72.5°	264.6	204.5	161.2	154.0	154.0	149.2	161.2	202.1	228.5	240.6	240.6
75°	185.2	144.3	122.7	113.1	89.0	72.2	65.0	65.0	57.7	55.3	52.9
77.5°	62.5	52.9	48.1	38.5	26.5	21.7	19.2	16.8	12.0	7.2	4.8
80°	9.6	7.2	4.8	4.8	4.8	2.4	2.4	2.4	0.0	0.0	0.0
82.5°	4.8	4.8	4.8	4.8	4.8	2.4	2.4	0.0	0.0	0.0	0.0
85°	4.8	4.8	4.8	4.8	4.8	2.4	2.4	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	2.4	2.4	2.4	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)