

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: P643196

Luminaire Tested: GWS-SA6E-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29012.9 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

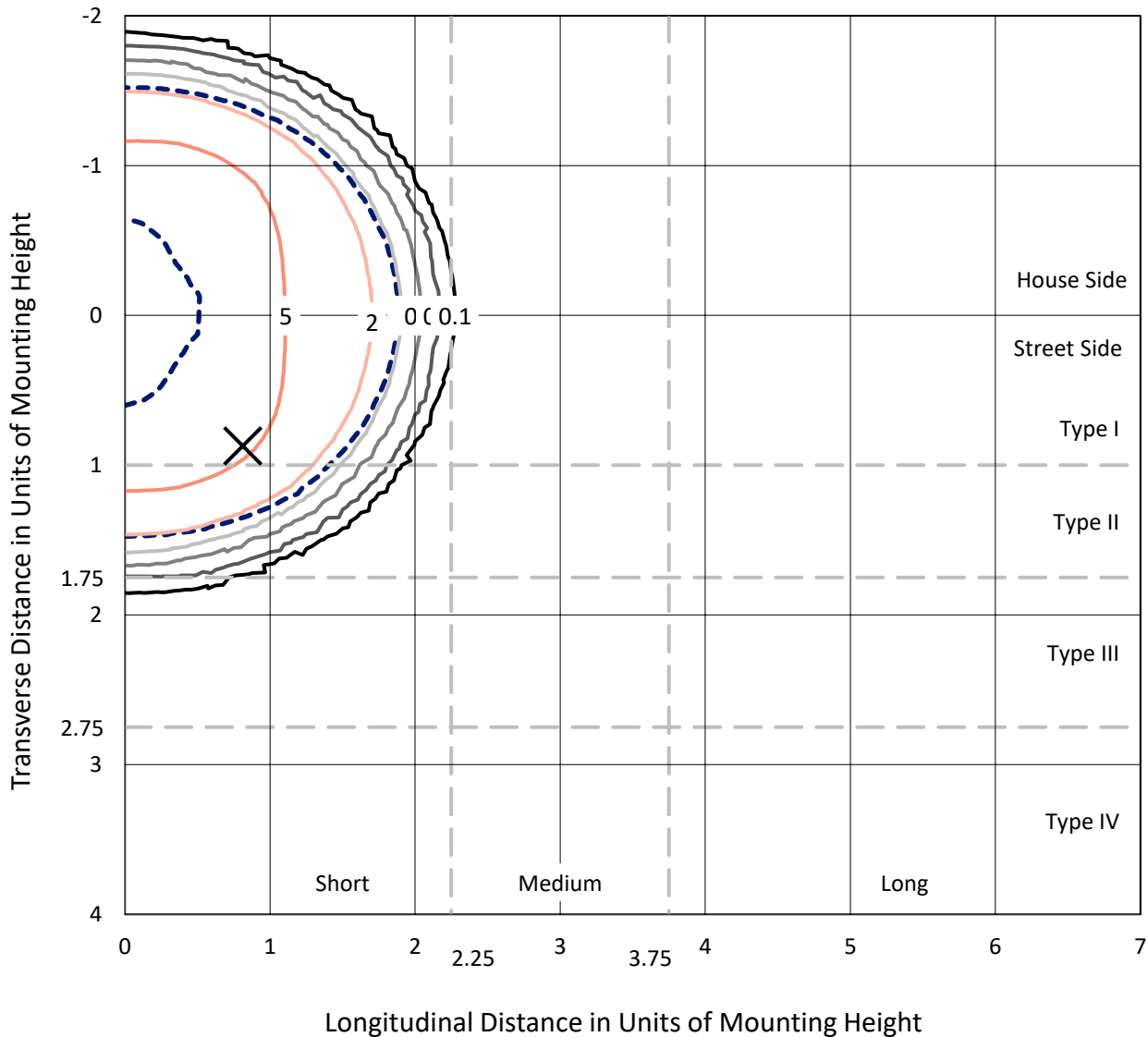
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

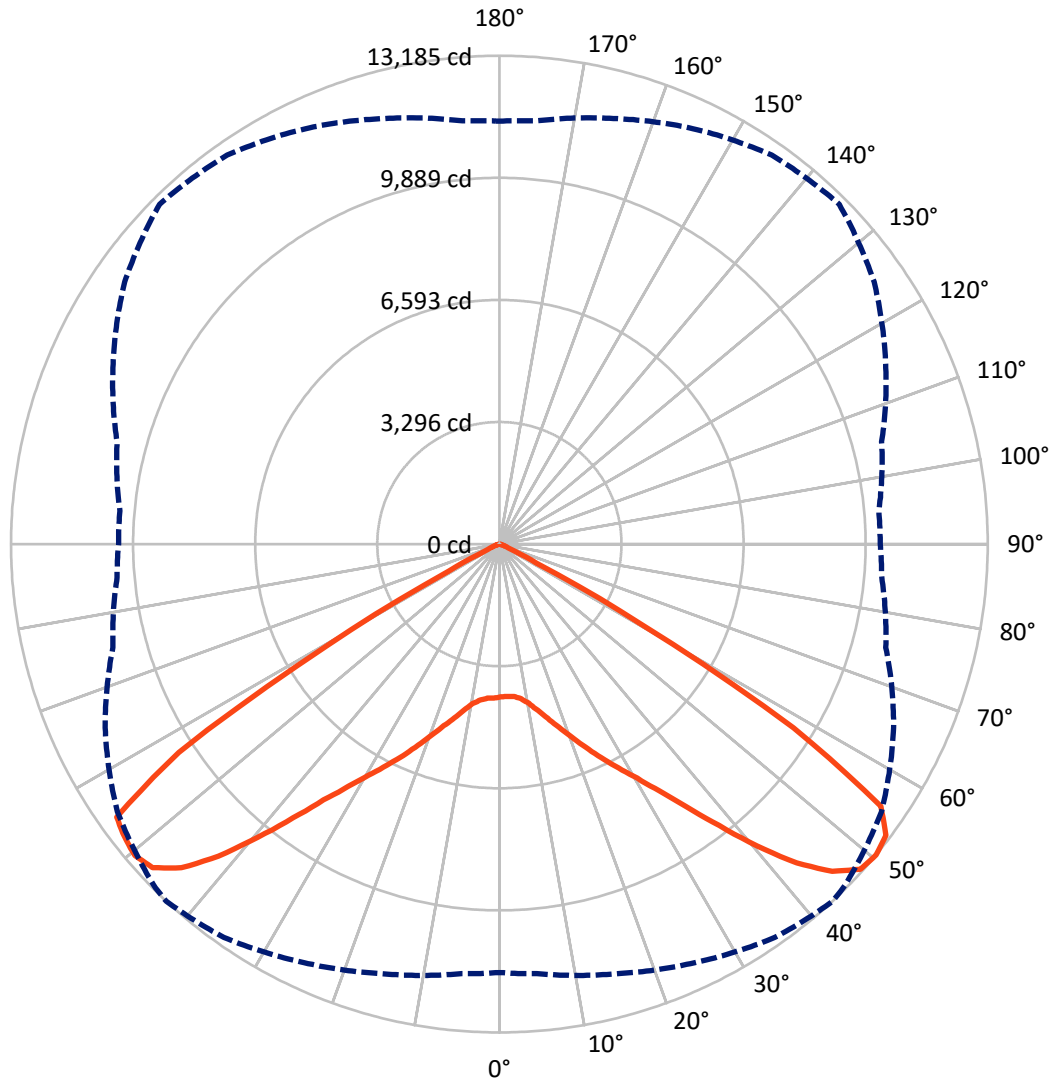
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14506.1	0.0	14506.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14506.8	0.0	14506.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	29012.9	0.0	29012.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.4	1.4
10°-20°	1398.5	4.8
20°-30°	2829.3	9.8
30°-40°	5249.4	18.1
40°-50°	8713.7	30.0
50°-60°	8892.7	30.7
60°-70°	1458.3	5.0
70°-80°	63.8	0.2
80°-90°	0.9	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°	29012.9	100.0
0°-180°	29012.9	100.0

Coefficient of Utilization



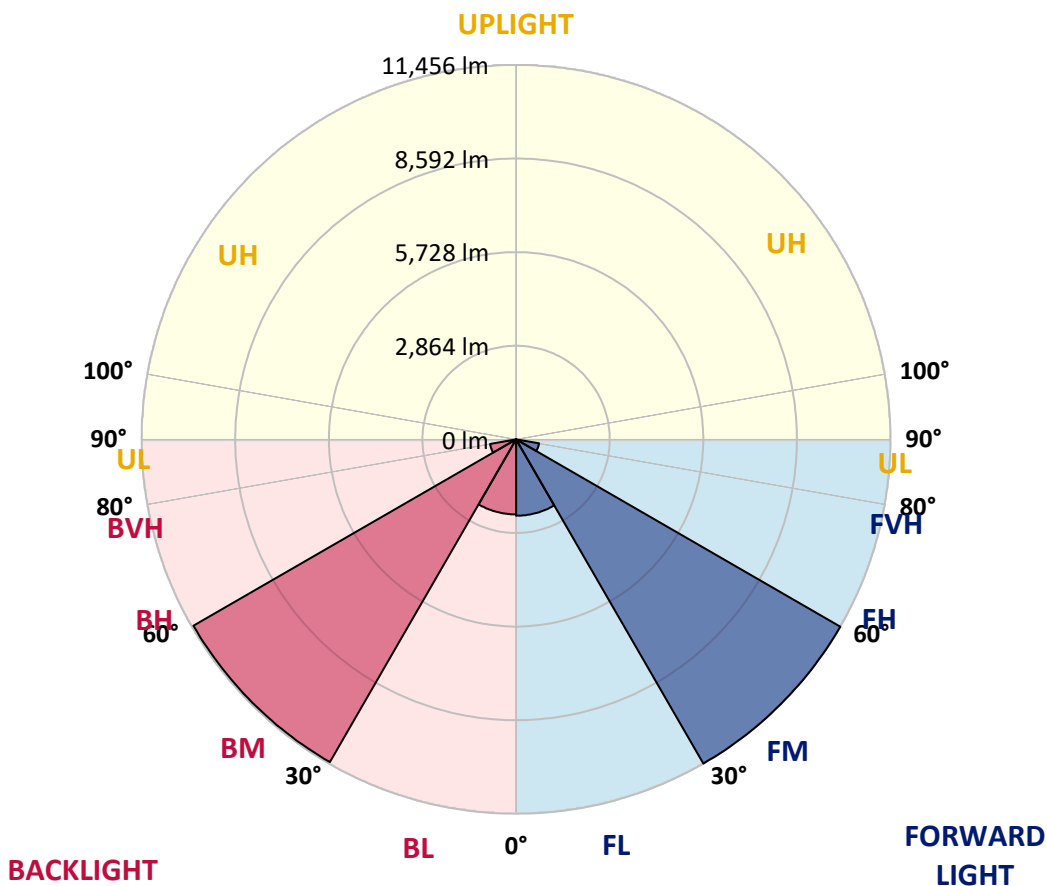
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2337.4	8.1			
FM (30°-60°)	11455.7	39.5			
FH (60°-80°)	713.4	2.5			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	2296.8	7.9	B3/2500		
BM (30°-60°)	11400.0	39.3	B5		
BH (60°-80°)	808.7	2.8	B2/1000		G1/1800
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6
2.5°	4049.6	4059.2	4072.1	4084.9	4101.0	4117.0	4126.6	4155.5	4149.1	4174.8	4174.8
5°	4004.7	4014.3	4030.4	4059.2	4094.5	4129.8	4155.5	4213.3	4245.4	4296.7	4316.0
7.5°	4027.2	4040.0	4059.2	4104.2	4158.7	4213.3	4242.1	4335.2	4399.4	4495.6	4550.2
10°	4101.0	4113.8	4145.9	4222.9	4293.5	4370.5	4405.8	4524.5	4627.2	4758.8	4835.8
12.5°	4184.4	4200.4	4264.6	4380.1	4502.1	4604.8	4652.9	4784.4	4890.3	5037.9	5159.9
15°	4271.0	4296.7	4396.2	4566.2	4739.5	4877.5	4928.8	5070.0	5175.9	5333.2	5471.1
17.5°	4473.2	4502.1	4614.4	4797.3	5034.7	5195.2	5240.1	5387.7	5467.9	5573.8	5718.2
20°	4726.7	4781.2	4919.2	5140.6	5400.6	5554.6	5586.7	5731.1	5724.7	5769.6	5894.7
22.5°	5041.2	5079.7	5230.5	5493.6	5785.6	5955.7	6029.5	6090.5	6010.2	5971.7	6052.0
25°	5368.5	5413.4	5577.0	5865.8	6193.1	6388.9	6449.9	6498.0	6369.6	6225.2	6234.9
27.5°	5792.0	5824.1	5984.6	6292.6	6619.9	6841.3	6895.9	6979.3	6809.3	6578.2	6514.0
30°	6295.8	6327.9	6498.0	6822.1	7146.2	7335.5	7418.9	7521.6	7335.5	7046.7	6972.9
32.5°	6886.3	6918.4	7136.6	7470.3	7736.6	7942.0	8022.2	8131.3	7983.7	7659.6	7576.2
35°	7592.2	7611.5	7868.2	8230.8	8513.2	8712.1	8766.7	8895.0	8731.4	8407.3	8362.4
37.5°	8410.5	8432.9	8712.1	9132.5	9421.3	9642.7	9729.3	9764.6	9565.7	9203.1	9167.8
40°	9309.0	9382.8	9655.5	10108.0	10432.1	10711.3	10788.3	10669.5	10390.4	9896.2	9832.0
42.5°	10246.0	10310.1	10615.0	11106.0	11481.4	11767.0	11770.2	11513.5	11038.6	10355.1	10258.8
45°	11025.7	11051.4	11446.1	11940.3	12402.3	12604.5	12623.8	12158.5	11442.9	10621.4	10416.0
47.5°	11561.6	11603.3	11946.7	12421.6	12931.8	13114.7	13076.2	12495.4	11635.4	10794.7	10454.5
50°	11568.0	11638.6	12010.9	12469.7	12963.9	13185.3	13130.8	12591.7	11744.5	10801.1	10361.5
52.5°	10544.4	10659.9	11266.4	11930.6	12687.9	13066.6	13079.4	12716.8	11702.8	10698.4	10278.1
55°	7954.8	8080.0	8843.7	9976.4	11439.7	12495.4	12678.3	12569.2	11654.7	10743.3	10425.7
57.5°	4210.1	4113.8	4537.4	5660.5	7499.2	9366.7	9902.6	10775.4	11118.8	10797.9	10698.4
60°	917.7	978.7	1302.8	1755.3	2926.5	4405.8	4928.8	6424.2	8201.9	8991.3	9562.5
62.5°	394.7	388.3	404.3	458.9	670.7	1116.7	1363.8	2227.0	3513.7	4826.2	5715.0
65°	324.1	327.3	340.1	340.1	317.7	320.9	336.9	510.2	821.5	1152.0	1546.7
67.5°	243.9	247.1	269.5	276.0	259.9	231.0	227.8	192.5	202.2	253.5	263.1
70°	154.0	154.0	166.9	173.3	173.3	160.4	157.2	138.0	134.8	154.0	173.3
72.5°	83.4	83.4	89.8	93.1	89.8	86.6	86.6	83.4	80.2	93.1	118.7
75°	35.3	35.3	38.5	38.5	35.3	35.3	35.3	35.3	35.3	41.7	64.2
77.5°	6.4	9.6	12.8	9.6	6.4	6.4	6.4	9.6	9.6	12.8	19.3
80°	3.2	3.2	6.4	3.2	0.0	0.0	0.0	0.0	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6	4126.6
2.5°	4197.2	4161.9	4174.8	4181.2	4171.6	4165.1	4129.8	4120.2	4104.2	4078.5	4072.1
5°	4338.4	4309.5	4306.3	4287.1	4242.1	4187.6	4120.2	4091.3	4059.2	4027.2	4020.7
7.5°	4575.9	4540.6	4518.1	4453.9	4351.2	4264.6	4152.3	4091.3	4049.6	4007.9	3998.3
10°	4880.7	4839.0	4774.8	4656.1	4518.1	4393.0	4261.4	4181.2	4117.0	4059.2	4056.0
12.5°	5204.8	5159.9	5044.4	4893.5	4726.7	4611.2	4444.3	4332.0	4235.7	4149.1	4139.5
15°	5545.0	5490.4	5333.2	5153.5	4999.4	4880.7	4697.8	4518.1	4370.5	4245.4	4232.5
17.5°	5804.9	5737.5	5551.4	5416.6	5291.5	5169.5	4964.1	4726.7	4530.9	4380.1	4344.8
20°	5968.5	5904.3	5727.9	5654.1	5596.3	5509.7	5265.8	5018.7	4800.5	4614.4	4582.3
22.5°	6125.8	6048.7	5894.7	5894.7	5939.6	5904.3	5641.2	5358.8	5102.1	4887.1	4839.0
25°	6302.3	6241.3	6132.2	6222.0	6334.3	6331.1	6061.6	5708.6	5413.4	5172.7	5124.6
27.5°	6559.0	6498.0	6459.5	6629.6	6770.7	6761.1	6465.9	6084.0	5772.8	5535.3	5490.4
30°	7011.4	6953.7	6911.9	7117.3	7297.0	7229.6	6905.5	6536.5	6222.0	5952.5	5920.4
32.5°	7614.7	7553.7	7499.2	7704.5	7865.0	7778.3	7470.3	7123.7	6761.1	6498.0	6433.8
35°	8407.3	8278.9	8224.4	8468.2	8535.6	8439.4	8144.2	7839.3	7454.2	7152.6	7110.9
37.5°	9225.5	9074.7	9036.2	9248.0	9357.1	9321.8	8975.3	8657.6	8240.4	7906.7	7858.6
40°	9925.1	9787.1	9719.7	10050.2	10297.3	10319.8	10008.5	9620.2	9129.3	8782.7	8696.1
42.5°	10335.8	10217.1	10201.0	10714.5	11118.8	11407.6	11035.4	10634.2	10117.6	9726.1	9655.5
45°	10428.9	10351.9	10486.6	11160.5	11789.4	12315.7	11998.0	11574.4	11016.1	10602.2	10534.8
47.5°	10419.2	10393.6	10634.2	11391.5	12187.3	12835.5	12678.3	12200.2	11661.1	11227.9	11163.7
50°	10281.3	10284.5	10685.6	11507.1	12347.8	12976.7	12819.5	12376.7	11895.3	11468.6	11417.2
52.5°	10226.7	10207.5	10589.3	11471.8	12511.4	12912.6	12559.6	12062.2	11526.3	11000.1	10923.0
55°	10419.2	10371.1	10602.2	11442.9	12530.7	12877.3	11946.7	10868.5	9771.1	9148.5	9097.2
57.5°	10708.0	10656.7	10765.8	11231.1	11526.3	10708.0	8792.3	7053.1	5923.6	5445.5	5236.9
60°	9562.5	9527.2	9443.7	8882.2	7617.9	5747.1	3914.8	2496.5	1793.8	1450.4	1450.4
62.5°	5933.2	5885.1	5432.6	4036.8	2932.9	1697.5	933.8	584.0	442.8	413.9	410.7
65°	1665.4	1655.8	1370.2	969.1	616.1	381.9	336.9	343.4	336.9	327.3	324.1
67.5°	250.3	276.0	276.0	224.6	215.0	240.7	282.4	301.6	285.6	269.5	263.1
70°	160.4	173.3	166.9	144.4	154.0	179.7	202.2	205.4	195.7	179.7	176.5
72.5°	112.3	125.1	102.7	93.1	96.3	105.9	115.5	115.5	112.3	105.9	99.5
75°	67.4	67.4	48.1	44.9	44.9	48.1	48.1	54.6	54.6	51.3	48.1
77.5°	22.5	25.7	16.0	12.8	12.8	12.8	16.0	19.3	19.3	16.0	12.8
80°	3.2	6.4	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	3.2
82.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
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)