

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: P642767

Luminaire Tested: GWS-SA6D-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28871.2 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

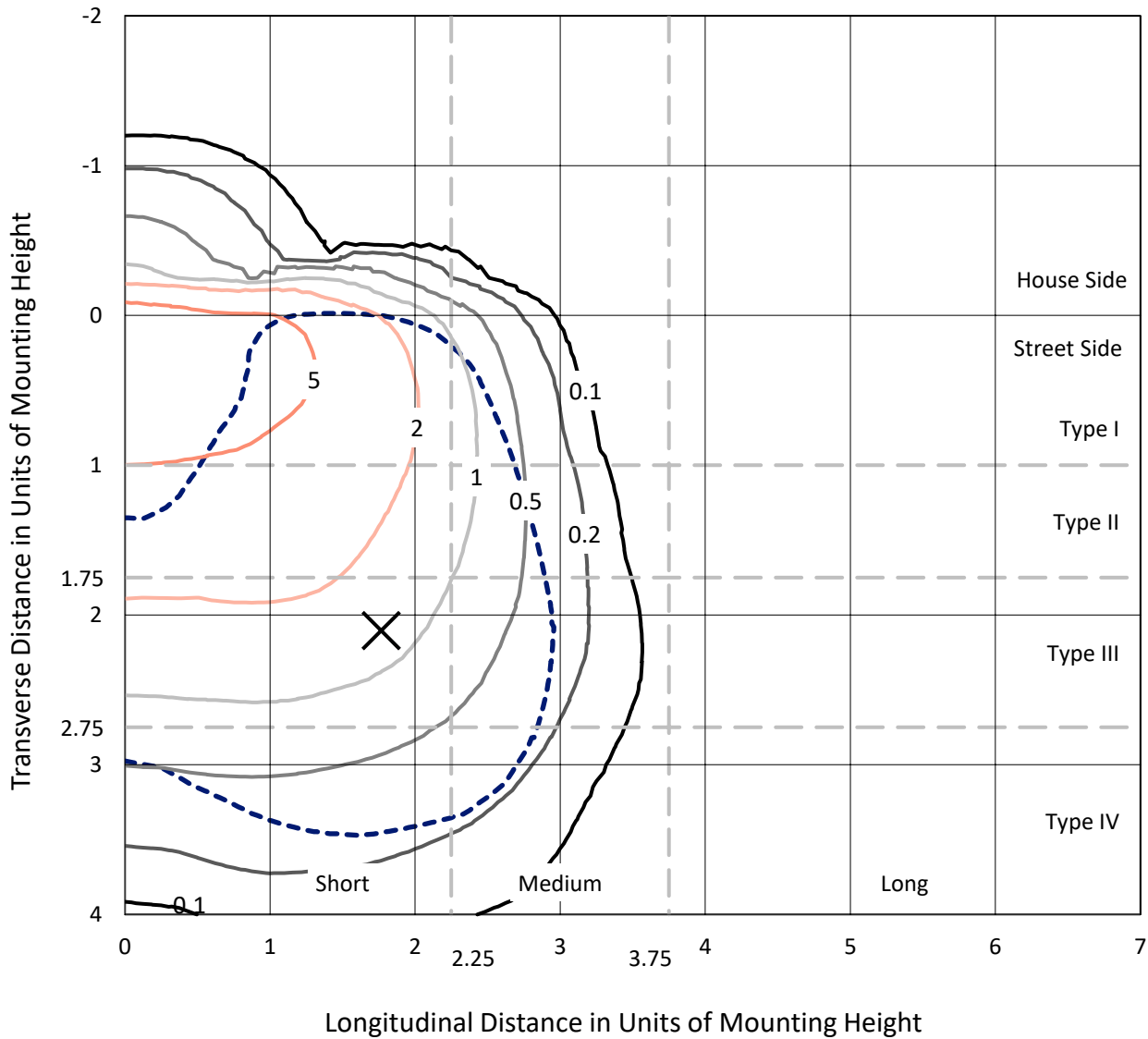
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

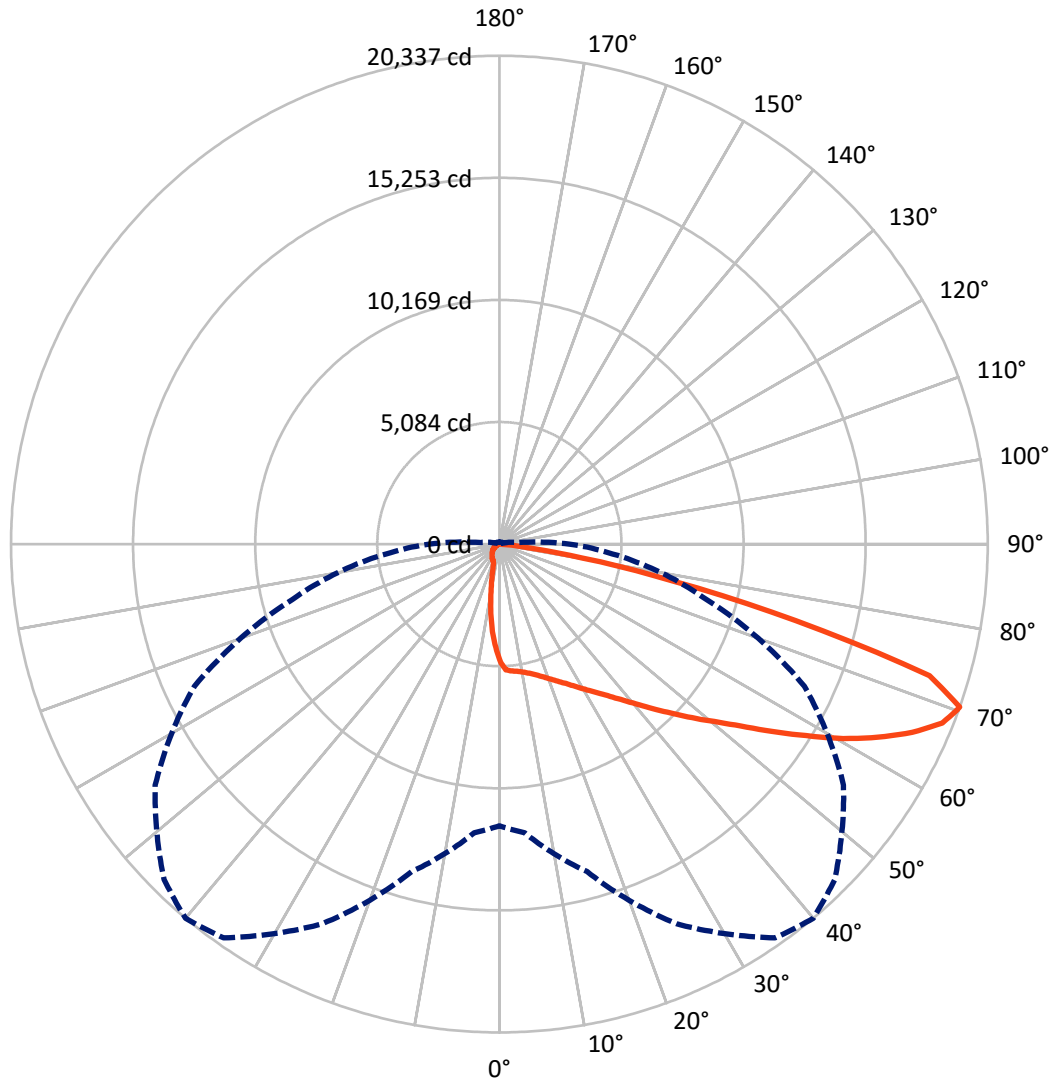
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2360.9	0.0	2360.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	26510.3	0.0	26510.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	28871.2	0.0	28871.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	1.4
10°-20°	1050.2	3.6
20°-30°	1757.7	6.1
30°-40°	2760.6	9.6
40°-50°	4366.6	15.1
50°-60°	6369.8	22.1
60°-70°	7896.3	27.4
70°-80°	3995.1	13.8
80°-90°	260.8	0.9
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°	28871.2	100.0
0°-180°	28871.2	100.0

Coefficient of Utilization



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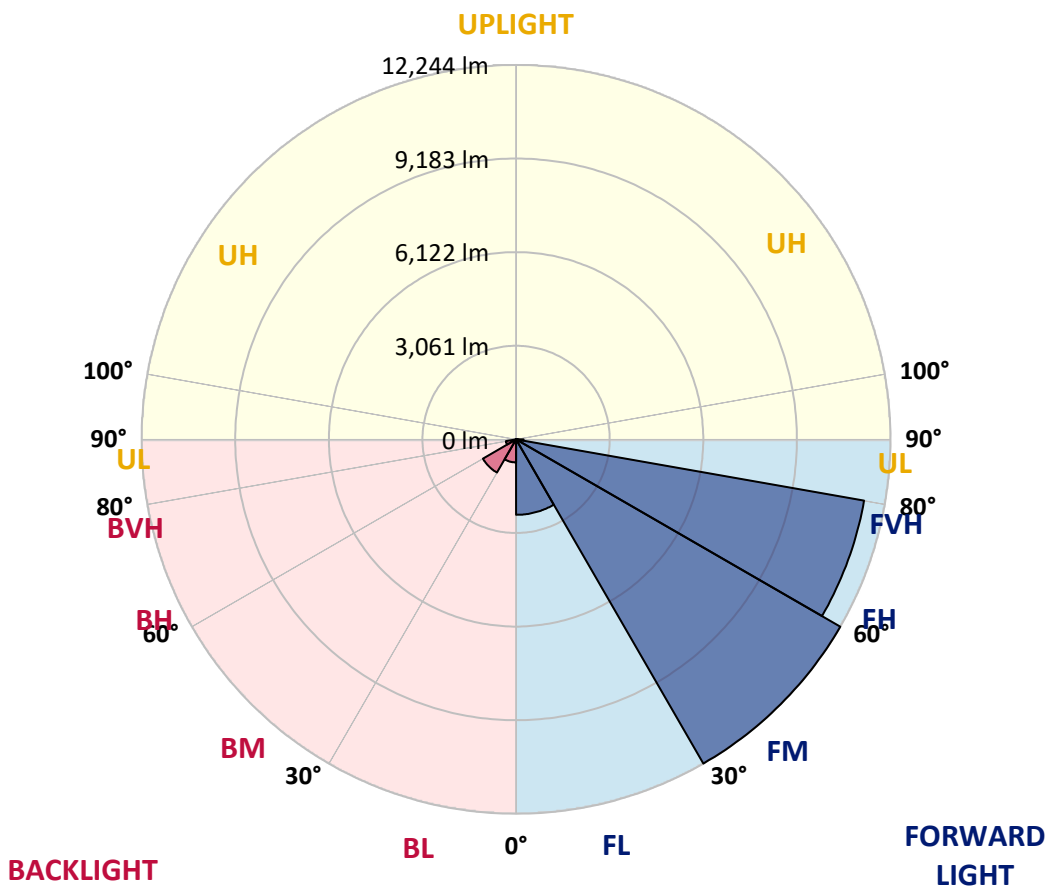
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.0	8.5			
FM (30°-60°)	12243.9	42.4			
FH (60°-80°)	11554.8	40.0			G4/12000
FVH (80°-90°)	243.6	0.8			G3/500
BL (0°-30°)	753.9	2.6	B2/1000		
BM (30°-60°)	1253.1	4.3	B2/2500		
BH (60°-80°)	336.6	1.2	B1/500		G1/500
BVH (80°-90°)	17.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1
2.5°	5266.9	5285.2	5282.6	5290.5	5272.1	5243.2	5238.0	5198.6	5127.6	5038.3	4938.5
5°	5374.6	5395.6	5379.8	5371.9	5337.8	5306.3	5298.4	5256.3	5174.9	5054.1	4880.7
7.5°	5466.5	5471.8	5461.2	5442.9	5392.9	5350.9	5322.0	5264.2	5167.0	5046.2	4846.6
10°	5482.3	5479.6	5484.9	5487.5	5456.0	5419.2	5395.6	5316.8	5193.3	5064.6	4849.2
12.5°	5463.9	5463.9	5498.0	5537.4	5537.4	5519.0	5495.4	5424.5	5280.0	5127.6	4901.7
15°	5487.5	5495.4	5561.1	5634.6	5658.3	5639.9	5629.4	5555.8	5406.1	5238.0	4996.3
17.5°	5571.6	5579.5	5684.5	5794.9	5823.8	5802.7	5781.7	5708.2	5547.9	5364.1	5104.0
20°	5695.0	5716.1	5850.0	5991.9	6018.1	5991.9	5949.8	5847.4	5687.2	5500.6	5206.4
22.5°	5920.9	5934.1	6078.6	6228.3	6241.4	6199.4	6136.3	5994.5	5826.4	5645.1	5322.0
25°	6220.4	6238.8	6383.3	6527.8	6493.6	6430.6	6343.9	6183.6	5991.9	5815.9	5469.1
27.5°	6577.7	6598.7	6740.5	6866.6	6777.3	6703.8	6606.6	6406.9	6212.5	6052.3	5658.3
30°	6963.8	6982.2	7108.3	7221.2	7103.0	7016.3	6900.8	6695.9	6498.9	6378.0	5926.2
32.5°	7336.8	7334.2	7455.0	7547.0	7426.1	7357.8	7252.8	7045.2	6887.6	6835.1	6325.5
35°	7683.6	7683.6	7783.4	7875.3	7788.6	7751.9	7654.7	7489.2	7399.9	7462.9	6858.7
37.5°	8032.9	8014.6	8109.1	8211.6	8203.7	8206.3	8151.2	8072.3	8077.6	8300.9	7591.6
40°	8321.9	8314.0	8424.3	8558.3	8663.4	8747.4	8713.3	8742.2	8907.7	9325.4	8529.4
42.5°	8553.1	8571.4	8713.3	8926.1	9191.4	9362.1	9385.8	9504.0	9929.5	10575.7	9588.0
45°	8818.4	8821.0	9018.0	9343.7	9766.7	10037.2	10131.8	10436.5	11040.7	11873.4	10749.1
47.5°	9144.1	9112.6	9333.2	9790.3	10402.4	10801.7	10969.8	11350.7	12285.8	13139.6	11694.8
50°	9504.0	9446.2	9695.7	10318.3	11114.3	11613.4	11954.8	12511.7	13520.5	14179.8	12398.8
52.5°	9921.7	9866.5	10150.2	10925.1	11968.0	12574.8	13013.5	13575.6	14579.1	14973.1	12819.1
55°	10452.3	10397.1	10696.6	11652.8	12976.7	13764.8	14224.5	14697.3	15564.2	15558.9	13123.8
57.5°	11040.7	10964.5	11379.6	12572.2	14235.0	15054.5	15522.1	15753.3	16312.8	16013.3	13328.7
60°	11715.8	11647.5	12222.8	13667.6	15687.6	16446.8	16741.0	16646.4	16927.5	16281.3	13257.8
62.5°	12325.2	12293.7	13008.2	14828.6	17072.0	17712.9	17794.4	17381.9	17379.3	16286.5	12779.7
65°	12958.3	13018.7	14080.0	16165.7	18464.2	18895.0	18755.8	18112.2	17560.6	15643.0	11366.4
67.5°	13194.7	13370.7	14786.6	17374.1	19562.2	19898.5	19654.2	18477.3	16806.7	13478.4	8655.5
70°	11734.2	12065.2	14119.4	17442.4	20016.7	20337.2	19751.4	17494.9	14011.7	8928.7	4741.5
72.5°	8923.4	9309.6	11765.7	14282.2	18001.9	18732.1	17731.3	14253.4	9031.1	3911.4	1591.9
75°	4993.7	5411.3	8763.2	10754.4	12086.2	12753.4	12385.7	9144.1	4000.7	1021.8	475.5
77.5°	1689.1	1828.3	4076.9	6653.8	7977.8	7378.9	6246.7	4541.8	1471.0	388.8	252.2
80°	1000.8	1053.4	1518.3	3312.5	4197.7	3480.6	2747.7	1678.6	748.7	207.5	176.0
82.5°	299.5	354.6	838.0	1229.4	1644.4	1024.5	866.9	958.8	388.8	113.0	147.1
85°	0.0	0.0	178.6	380.9	430.8	168.1	168.1	543.8	70.9	47.3	107.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	13.1	7.9	10.5	23.6
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°	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1	4899.1
2.5°	4867.6	4775.6	4667.9	4565.5	4468.3	4342.2	4281.8	4208.2	4145.2	4111.0	4129.4
5°	4770.4	4625.9	4405.2	4182.0	3956.1	3743.3	3551.5	3422.8	3307.2	3246.8	3259.9
7.5°	4686.3	4491.9	4147.8	3782.7	3420.2	3055.0	2758.2	2527.0	2348.4	2274.9	2261.7
10°	4649.5	4405.2	3919.3	3393.9	2837.0	2345.8	1925.5	1670.7	1489.4	1400.1	1415.9
12.5°	4667.9	4360.6	3724.9	3013.0	2290.6	1718.0	1316.1	1077.0	948.3	895.8	882.6
15°	4720.5	4350.1	3551.5	2624.2	1767.9	1200.5	908.9	811.7	785.4	780.2	780.2
17.5°	4780.9	4352.7	3372.9	2230.2	1342.3	890.5	777.6	759.2	751.3	746.0	748.7
20°	4841.3	4352.7	3168.0	1830.9	1008.7	769.7	740.8	727.6	719.8	717.1	717.1
22.5°	4914.9	4352.7	2939.5	1460.5	809.1	730.3	706.6	698.7	690.9	688.2	685.6
25°	5004.2	4355.3	2687.3	1142.7	735.5	696.1	677.7	669.8	662.0	656.7	656.7
27.5°	5132.9	4376.4	2408.8	890.5	693.5	664.6	648.8	641.0	633.1	625.2	625.2
30°	5319.4	4428.9	2096.2	735.5	654.1	630.4	614.7	609.4	601.6	593.7	591.0
32.5°	5597.8	4520.8	1773.1	659.3	617.3	593.7	575.3	570.0	562.1	554.3	551.6
35°	5986.6	4688.9	1457.9	612.1	570.0	546.4	535.9	533.3	522.7	514.9	514.9
37.5°	6556.6	4962.1	1155.8	564.8	530.6	512.2	499.1	493.8	483.3	475.5	472.8
40°	7252.8	5316.8	898.4	528.0	493.8	475.5	462.3	454.4	441.3	430.8	425.6
42.5°	8140.6	5750.2	709.3	488.6	459.7	441.3	430.8	415.0	396.7	380.9	378.3
45°	9065.3	6196.8	585.8	451.8	428.2	412.4	399.3	378.3	352.0	333.6	328.4
47.5°	9774.6	6475.2	512.2	412.4	394.0	380.9	365.1	338.9	307.3	286.3	281.1
50°	10281.5	6517.2	457.1	375.6	365.1	352.0	328.4	296.8	262.7	241.7	236.4
52.5°	10531.1	6328.1	412.4	341.5	333.6	320.5	291.6	257.4	220.7	199.6	194.4
55°	10644.0	5970.9	370.4	312.6	302.1	286.3	254.8	218.0	181.3	162.9	157.6
57.5°	10599.4	5442.9	333.6	283.7	270.6	252.2	218.0	178.6	149.7	131.3	128.7
60°	10268.4	4702.1	296.8	254.8	239.0	218.0	183.9	147.1	120.8	107.7	105.1
62.5°	9553.9	3782.7	260.1	220.7	210.1	189.1	157.6	120.8	99.8	91.9	89.3
65°	8090.7	2674.1	223.3	186.5	181.3	160.2	131.3	99.8	86.7	81.4	78.8
67.5°	5815.9	1626.0	189.1	160.2	155.0	136.6	110.3	86.7	78.8	76.2	76.2
70°	2923.7	769.7	149.7	131.3	131.3	113.0	94.6	78.8	76.2	73.6	73.6
72.5°	993.0	328.4	113.0	102.4	107.7	97.2	81.4	73.6	73.6	73.6	73.6
75°	338.9	173.4	78.8	73.6	78.8	78.8	70.9	70.9	73.6	73.6	73.6
77.5°	220.7	115.6	55.2	49.9	60.4	60.4	60.4	65.7	70.9	70.9	70.9
80°	181.3	63.0	36.8	34.1	44.7	44.7	49.9	60.4	65.7	65.7	65.7
82.5°	155.0	39.4	21.0	23.6	31.5	34.1	42.0	49.9	57.8	60.4	60.4
85°	105.1	21.0	15.8	18.4	21.0	26.3	34.1	42.0	47.3	52.5	52.5
87.5°	28.9	7.9	10.5	13.1	13.1	18.4	26.3	31.5	36.8	39.4	39.4
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)