

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: P640842

Luminaire Tested: GWS-SA5E-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640842
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-SA5E-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29841.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

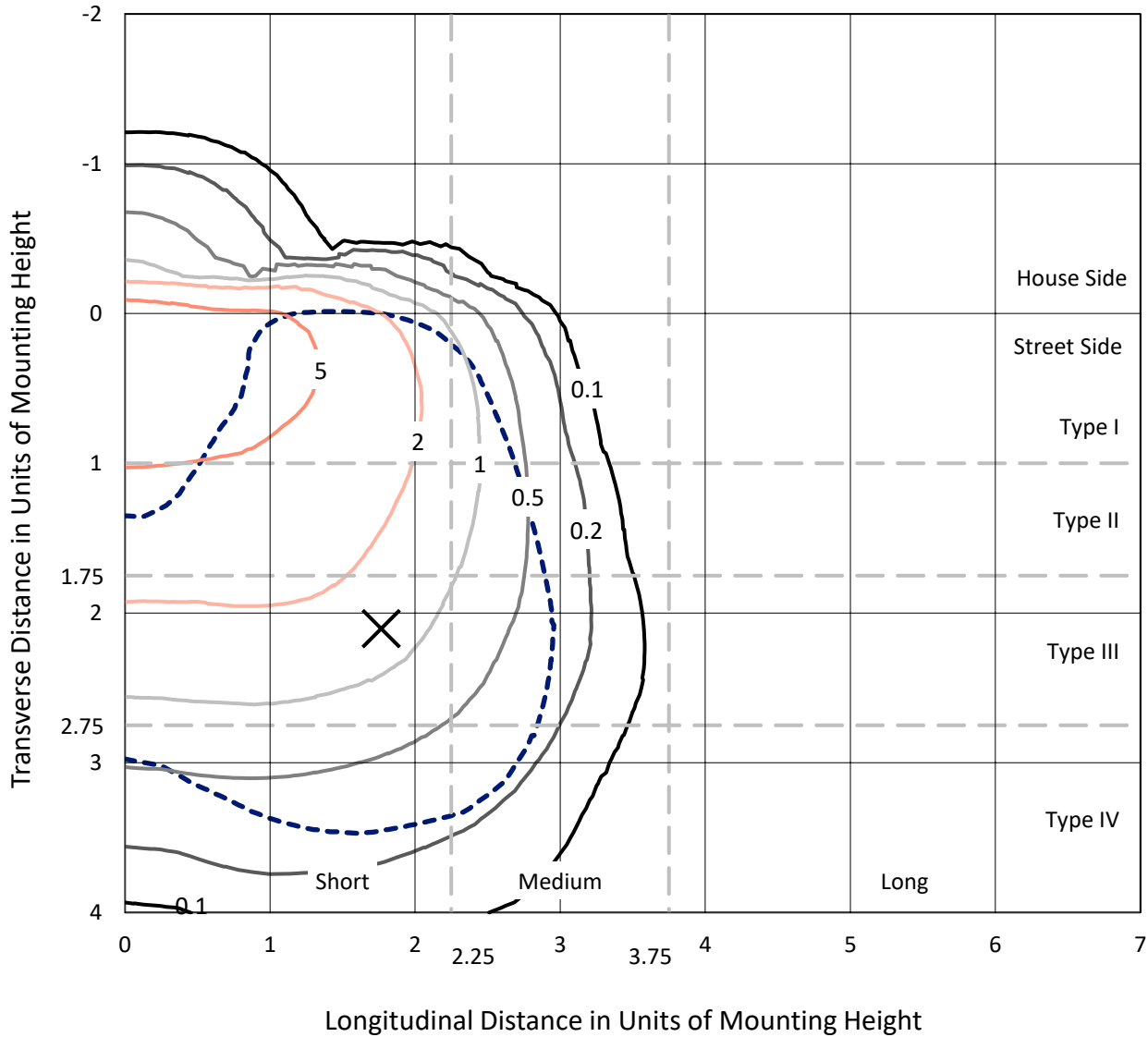
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

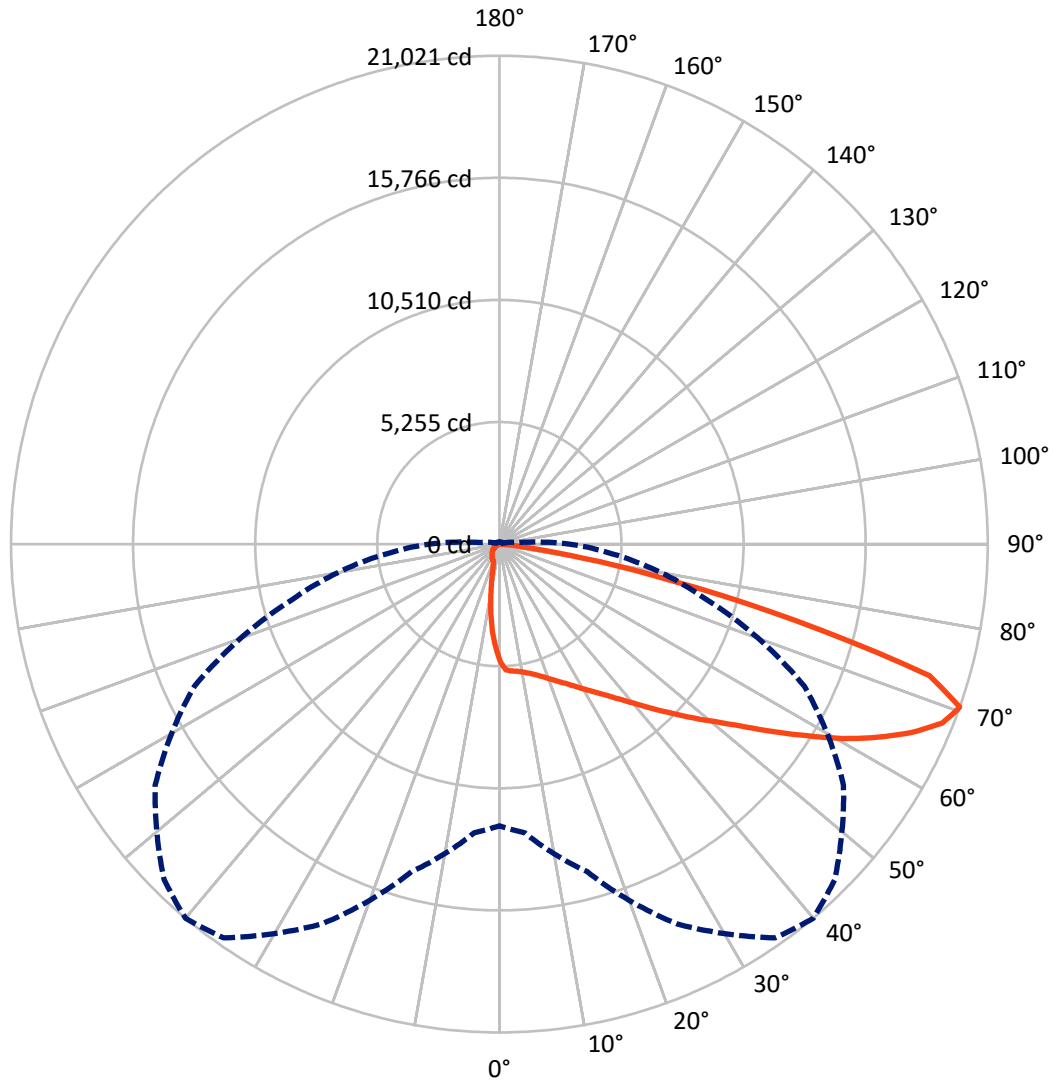
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	2440.3	0.0	2440.3
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	27401.6	0.0	27401.6
	% Fixture	91.8	0.0	91.8
Total	Lumens	29841.9	0.0	29841.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.0	1.4
10°-20°	1085.5	3.6
20°-30°	1816.8	6.1
30°-40°	2853.4	9.6
40°-50°	4513.5	15.1
50°-60°	6584.0	22.1
60°-70°	8161.8	27.4
70°-80°	4129.4	13.8
80°-90°	269.6	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°	29841.9	100.0
0°-180°	29841.9	100.0

Coefficient of Utilization



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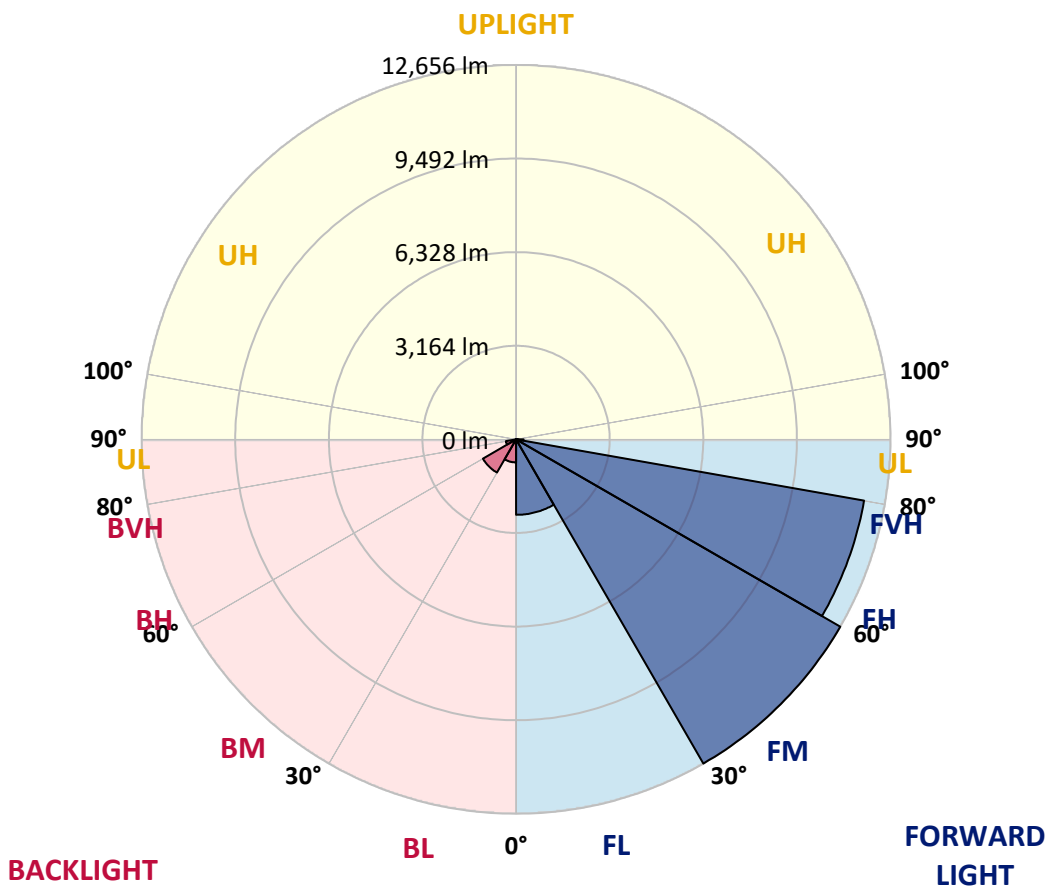
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.9	8.5			
FM (30°-60°)	12655.6	42.4			
FH (60°-80°)	11943.3	40.0			G4/12000
FVH (80°-90°)	251.8	0.8			G3/500
BL (0°-30°)	779.3	2.6	B2/1000		
BM (30°-60°)	1295.3	4.3	B2/2500		
BH (60°-80°)	347.9	1.2	B1/500		G1/500
BVH (80°-90°)	17.8	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°	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8
2.5°	5443.9	5462.9	5460.2	5468.4	5449.4	5419.5	5414.1	5373.3	5300.0	5207.7	5104.5
5°	5555.3	5577.0	5560.7	5552.5	5517.2	5484.7	5476.5	5433.1	5348.9	5224.0	5044.8
7.5°	5650.3	5655.7	5644.9	5625.9	5574.3	5530.8	5501.0	5441.2	5340.8	5215.9	5009.5
10°	5666.6	5663.9	5669.3	5672.0	5639.4	5601.4	5577.0	5495.5	5367.9	5234.9	5012.2
12.5°	5647.6	5647.6	5682.9	5723.6	5723.6	5704.6	5680.2	5606.8	5457.5	5300.0	5066.5
15°	5672.0	5680.2	5748.0	5824.1	5848.5	5829.5	5818.6	5742.6	5587.8	5414.1	5164.3
17.5°	5758.9	5767.0	5875.7	5989.7	6019.6	5997.8	5976.1	5900.1	5734.5	5544.4	5275.6
20°	5886.5	5908.2	6046.7	6193.3	6220.5	6193.3	6149.9	6044.0	5878.4	5685.6	5381.5
22.5°	6120.0	6133.6	6282.9	6437.7	6451.3	6407.8	6342.7	6196.0	6022.3	5834.9	5501.0
25°	6429.5	6448.6	6597.9	6747.2	6711.9	6646.8	6557.2	6391.5	6193.3	6011.4	5653.0
27.5°	6798.8	6820.5	6967.2	7097.5	7005.2	6929.1	6828.7	6622.3	6421.4	6255.8	5848.5
30°	7197.9	7217.0	7347.3	7464.0	7341.8	7252.2	7132.8	6921.0	6717.4	6592.5	6125.4
32.5°	7583.5	7580.8	7705.7	7800.7	7675.8	7605.2	7496.6	7282.1	7119.2	7064.9	6538.2
35°	7941.9	7941.9	8045.1	8140.1	8050.5	8012.5	7912.0	7741.0	7648.7	7713.8	7089.3
37.5°	8303.0	8284.0	8381.8	8487.7	8479.5	8482.2	8425.2	8343.8	8349.2	8580.0	7846.9
40°	8601.7	8593.5	8707.6	8846.1	8954.7	9041.6	9006.3	9036.1	9207.2	9638.9	8816.2
42.5°	8840.6	8859.6	9006.3	9226.2	9500.4	9676.9	9701.3	9823.5	10263.4	10931.3	9910.4
45°	9114.9	9117.6	9321.2	9657.9	10095.0	10374.7	10472.5	10787.4	11411.9	12272.6	11110.5
47.5°	9451.5	9419.0	9647.0	10119.5	10752.1	11164.8	11338.6	11732.3	12698.9	13581.3	12088.0
50°	9823.5	9763.8	10021.7	10665.2	11487.9	12003.8	12356.8	12932.4	13975.0	14656.5	12815.7
52.5°	10255.2	10198.2	10491.5	11292.4	12370.4	12997.6	13451.0	14032.1	15069.3	15476.5	13250.1
55°	10803.7	10746.7	11056.2	12044.5	13413.0	14227.5	14702.7	15191.4	16087.4	16082.0	13565.0
57.5°	11411.9	11333.2	11762.2	12994.9	14713.6	15560.7	16044.0	16282.9	16861.3	16551.7	13776.8
60°	12109.7	12039.1	12633.7	14127.1	16215.1	16999.7	17303.8	17206.1	17496.6	16828.7	13703.5
62.5°	12739.6	12707.0	13445.6	15327.2	17646.0	18308.5	18392.6	17966.4	17963.6	16834.1	13209.4
65°	13394.0	13456.4	14553.4	16709.2	19085.0	19530.3	19386.4	18721.2	18151.0	16168.9	11748.6
67.5°	13638.4	13820.3	15283.8	17958.2	20220.0	20567.5	20315.0	19098.6	17371.7	13931.6	8946.5
70°	12128.7	12470.8	14594.1	18028.8	20689.7	21020.9	20415.4	18083.1	14482.8	9228.9	4900.9
72.5°	9223.5	9622.6	12161.3	14762.4	18607.1	19362.0	18327.5	14732.6	9334.8	4042.9	1645.4
75°	5161.6	5593.3	9057.8	11116.0	12492.5	13182.2	12802.1	9451.5	4135.2	1056.2	491.4
77.5°	1745.9	1889.8	4214.0	6877.6	8246.0	7626.9	6456.7	4694.5	1520.5	401.8	260.7
80°	1034.5	1088.8	1569.4	3423.8	4338.9	3597.6	2840.1	1735.0	773.8	214.5	181.9
82.5°	309.5	366.5	866.1	1270.7	1699.7	1058.9	896.0	991.0	401.8	116.8	152.1
85°	0.0	0.0	184.6	393.7	445.3	173.8	173.8	562.0	73.3	48.9	111.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	13.6	8.1	10.9	24.4
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°	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8	5063.8
2.5°	5031.2	4936.2	4824.9	4719.0	4618.5	4488.2	4425.7	4349.7	4284.6	4249.3	4268.3
5°	4930.8	4781.4	4553.4	4322.6	4089.1	3869.1	3670.9	3537.9	3418.4	3356.0	3369.5
7.5°	4843.9	4643.0	4287.3	3909.9	3535.2	3157.8	2850.9	2612.0	2427.4	2351.3	2337.8
10°	4805.9	4553.4	4051.1	3508.0	2932.4	2424.7	1990.2	1726.9	1539.5	1447.2	1463.5
12.5°	4824.9	4507.2	3850.1	3114.3	2367.6	1775.7	1360.3	1113.2	980.2	925.9	912.3
15°	4879.2	4496.3	3670.9	2712.5	1827.3	1240.8	939.5	839.0	811.8	806.4	806.4
17.5°	4941.6	4499.1	3486.3	2305.2	1387.5	920.4	803.7	784.7	776.5	771.1	773.8
20°	5004.1	4499.1	3274.5	1892.5	1042.6	795.5	765.7	752.1	744.0	741.2	741.2
22.5°	5080.1	4499.1	3038.3	1509.6	836.3	754.8	730.4	722.2	714.1	711.4	708.7
25°	5172.4	4501.8	2777.6	1181.1	760.3	719.5	700.5	692.4	684.2	678.8	678.8
27.5°	5305.5	4523.5	2489.8	920.4	716.8	686.9	670.6	662.5	654.4	646.2	646.2
30°	5498.2	4577.8	2166.7	760.3	676.1	651.6	635.4	629.9	621.8	613.6	610.9
32.5°	5786.1	4672.8	1832.7	681.5	638.1	613.6	594.6	589.2	581.0	572.9	570.2
35°	6187.9	4846.6	1506.9	632.6	589.2	564.8	553.9	551.2	540.3	532.2	532.2
37.5°	6777.1	5129.0	1194.7	583.8	548.5	529.5	515.9	510.5	499.6	491.4	488.7
40°	7496.6	5495.5	928.6	545.8	510.5	491.4	477.9	469.7	456.2	445.3	439.9
42.5°	8414.3	5943.5	733.1	505.0	475.2	456.2	445.3	429.0	410.0	393.7	391.0
45°	9370.1	6405.1	605.5	467.0	442.6	426.3	412.7	391.0	363.8	344.8	339.4
47.5°	10103.2	6692.9	529.5	426.3	407.3	393.7	377.4	350.3	317.7	296.0	290.5
50°	10627.2	6736.4	472.4	388.3	377.4	363.8	339.4	306.8	271.5	249.8	244.4
52.5°	10885.2	6540.9	426.3	353.0	344.8	331.3	301.4	266.1	228.1	206.4	200.9
55°	11001.9	6171.6	382.8	323.1	312.2	296.0	263.4	225.4	187.3	168.3	162.9
57.5°	10955.8	5625.9	344.8	293.2	279.7	260.7	225.4	184.6	154.8	135.8	133.0
60°	10613.6	4860.2	306.8	263.4	247.1	225.4	190.1	152.1	124.9	111.3	108.6
62.5°	9875.1	3909.9	268.8	228.1	217.2	195.5	162.9	124.9	103.2	95.0	92.3
65°	8362.8	2764.1	230.8	192.8	187.3	165.6	135.8	103.2	89.6	84.2	81.5
67.5°	6011.4	1680.7	195.5	165.6	160.2	141.2	114.0	89.6	81.5	78.7	78.7
70°	3022.0	795.5	154.8	135.8	135.8	116.8	97.7	81.5	78.7	76.0	76.0
72.5°	1026.3	339.4	116.8	105.9	111.3	100.5	84.2	76.0	76.0	76.0	76.0
75°	350.3	179.2	81.5	76.0	81.5	81.5	73.3	73.3	76.0	76.0	76.0
77.5°	228.1	119.5	57.0	51.6	62.4	62.4	62.4	67.9	73.3	73.3	73.3
80°	187.3	65.2	38.0	35.3	46.2	46.2	51.6	62.4	67.9	67.9	67.9
82.5°	160.2	40.7	21.7	24.4	32.6	35.3	43.4	51.6	59.7	62.4	62.4
85°	108.6	21.7	16.3	19.0	21.7	27.2	35.3	43.4	48.9	54.3	54.3
87.5°	29.9	8.1	10.9	13.6	13.6	19.0	27.2	32.6	38.0	40.7	40.7
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)