

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: P640677

Luminaire Tested: GWS-SA5E-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640677
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29173.4 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

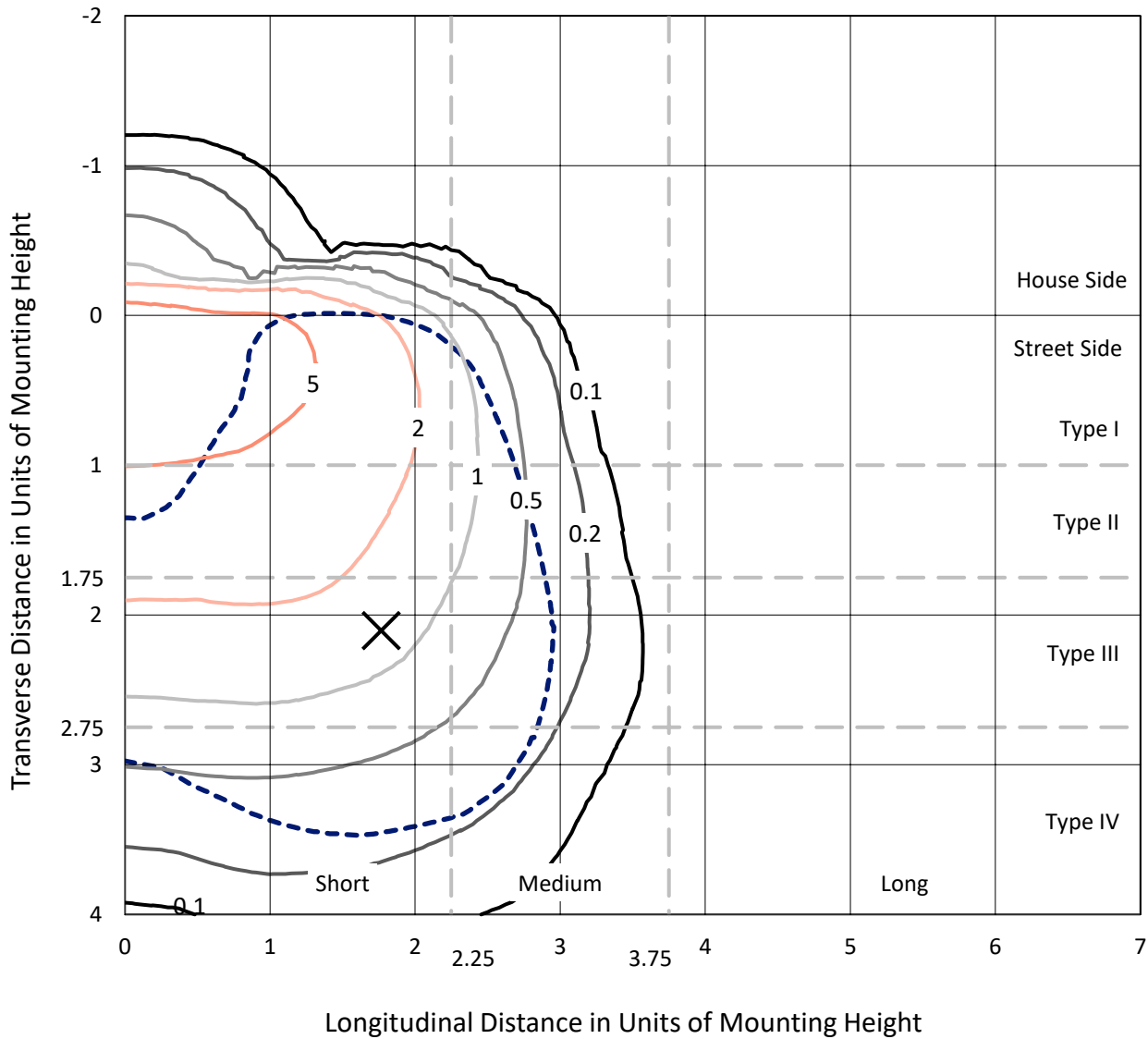
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA5E-735-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

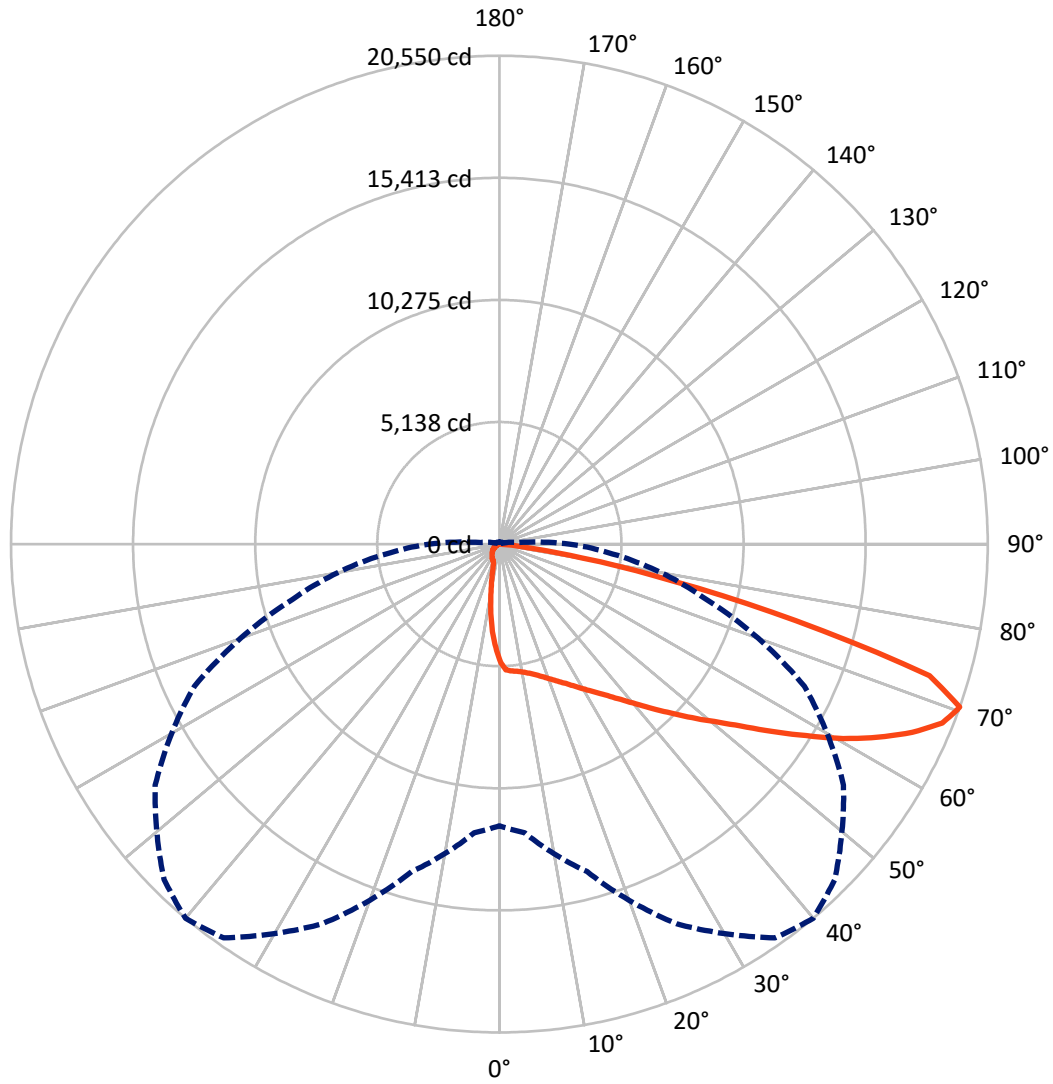
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P640677
CATALOG NUMBER: GWS-SA5E-735-U-SL4-W-HSS

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	2385.6	0.0	2385.6
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	26787.8	0.0	26787.8
	% Fixture	91.8	0.0	91.8
Total	Lumens	29173.4	0.0	29173.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.4	1.4
10°-20°	1061.2	3.6
20°-30°	1776.1	6.1
30°-40°	2789.5	9.6
40°-50°	4412.4	15.1
50°-60°	6436.5	22.1
60°-70°	7979.0	27.4
70°-80°	4036.9	13.8
80°-90°	263.5	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°	29173.4	100.0
0°-180°	29173.4	100.0

Coefficient of Utilization



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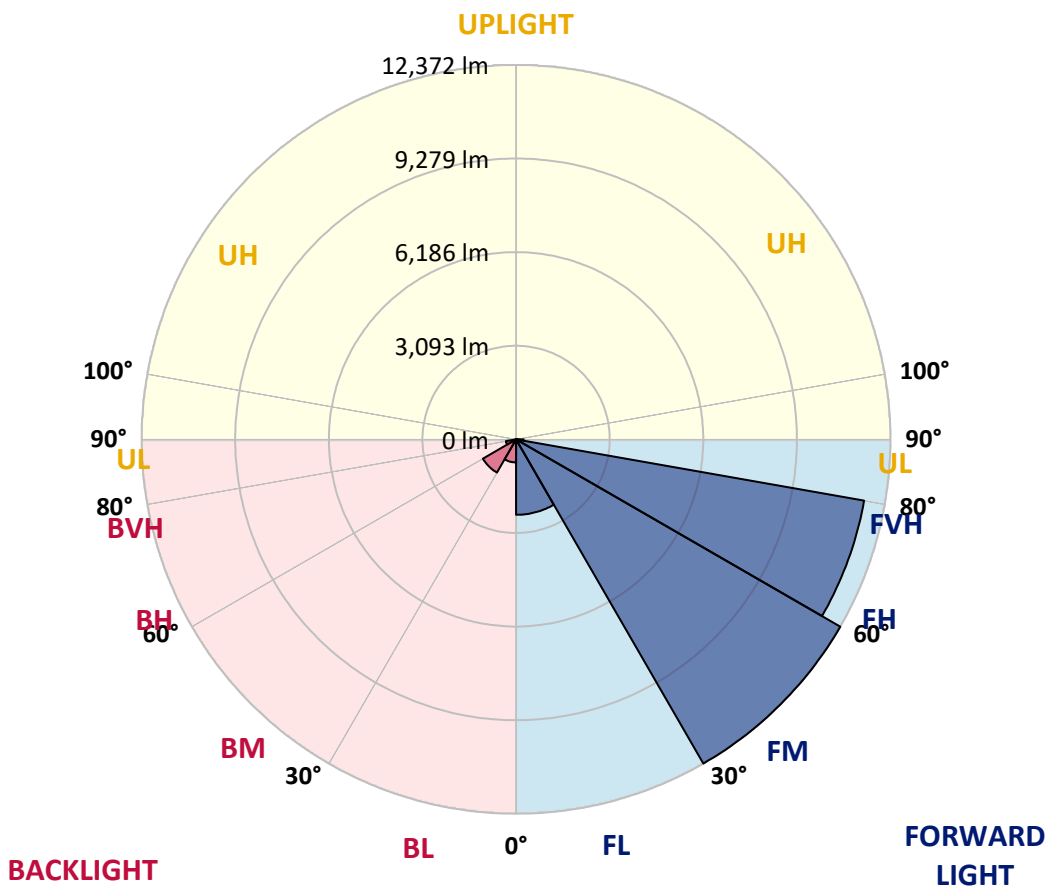
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.8	8.5			
FM (30°-60°)	12372.1	42.4			
FH (60°-80°)	11675.7	40.0			G4/12000
FVH (80°-90°)	246.1	0.8			G3/500
BL (0°-30°)	761.8	2.6	B2/1000		
BM (30°-60°)	1266.3	4.3	B2/2500		
BH (60°-80°)	340.1	1.2	B1/500		G1/500
BVH (80°-90°)	17.4	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°	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4
2.5°	5322.0	5340.6	5337.9	5345.9	5327.3	5298.1	5292.8	5253.0	5181.3	5091.1	4990.2
5°	5430.8	5452.0	5436.1	5428.2	5393.7	5361.8	5353.8	5311.4	5229.1	5107.0	4931.8
7.5°	5523.7	5529.0	5518.4	5499.8	5449.4	5406.9	5377.7	5319.3	5221.1	5099.0	4897.3
10°	5539.6	5537.0	5542.3	5545.0	5513.1	5475.9	5452.0	5372.4	5247.7	5117.6	4899.9
12.5°	5521.1	5521.1	5555.6	5595.4	5595.4	5576.8	5552.9	5481.2	5335.3	5181.3	4953.0
15°	5545.0	5552.9	5619.3	5693.6	5717.5	5698.9	5688.3	5614.0	5462.7	5292.8	5048.6
17.5°	5629.9	5637.9	5744.0	5855.5	5884.7	5863.5	5842.2	5767.9	5606.0	5420.2	5157.4
20°	5754.6	5775.9	5911.3	6054.6	6081.1	6054.6	6012.1	5908.6	5746.7	5558.2	5260.9
22.5°	5982.9	5996.2	6142.2	6293.5	6306.8	6264.3	6200.6	6057.2	5887.4	5704.2	5377.7
25°	6285.5	6304.1	6450.1	6596.1	6561.6	6497.9	6410.3	6248.4	6054.6	5876.7	5526.4
27.5°	6646.5	6667.7	6811.1	6938.5	6848.2	6773.9	6675.7	6474.0	6277.6	6115.6	5717.5
30°	7036.7	7055.3	7182.7	7296.8	7177.4	7089.8	6973.0	6766.0	6566.9	6444.8	5988.2
32.5°	7413.6	7411.0	7533.1	7626.0	7503.9	7434.9	7328.7	7119.0	6959.7	6906.6	6391.7
35°	7764.0	7764.0	7864.9	7957.8	7870.2	7833.0	7734.8	7567.6	7477.3	7541.0	6930.5
37.5°	8117.0	8098.4	8194.0	8297.5	8289.6	8292.2	8236.5	8156.8	8162.1	8387.8	7671.1
40°	8409.0	8401.0	8512.5	8647.9	8754.1	8839.0	8804.5	8833.7	9000.9	9423.0	8618.7
42.5°	8642.6	8661.2	8804.5	9019.5	9287.6	9460.1	9484.0	9603.5	10033.5	10686.4	9688.4
45°	8910.7	8913.3	9112.4	9441.5	9868.9	10142.3	10237.9	10545.8	11156.3	11997.7	10861.6
47.5°	9239.8	9208.0	9430.9	9892.8	10511.3	10914.7	11084.6	11469.5	12414.4	13277.1	11817.2
50°	9603.5	9545.1	9797.2	10426.3	11230.6	11734.9	12080.0	12642.7	13662.0	14328.2	12528.6
52.5°	10025.5	9969.8	10256.4	11039.5	12093.3	12706.4	13149.7	13717.7	14731.7	15129.8	12953.3
55°	10561.7	10505.9	10808.5	11774.7	13112.5	13908.8	14373.3	14851.1	15727.1	15721.8	13261.2
57.5°	11156.3	11079.3	11498.7	12703.8	14384.0	15212.1	15684.6	15918.2	16483.6	16181.0	13468.2
60°	11838.4	11769.4	12350.7	13810.6	15851.8	16618.9	16916.2	16820.7	17104.7	16451.7	13396.5
62.5°	12454.2	12422.4	13144.4	14983.8	17250.7	17898.3	17980.6	17563.9	17561.2	16457.0	12913.4
65°	13093.9	13155.0	14227.4	16334.9	18657.5	19092.8	18952.1	18301.8	17744.4	15806.7	11485.4
67.5°	13332.8	13510.7	14941.4	17555.9	19767.0	20106.8	19859.9	18670.7	16982.6	13619.5	8746.1
70°	11857.0	12191.5	14267.2	17624.9	20226.2	20550.0	19958.1	17678.0	14158.3	9022.2	4791.1
72.5°	9016.9	9407.0	11888.9	14431.7	18190.3	18928.2	17916.9	14402.5	9125.7	3952.3	1608.5
75°	5045.9	5468.0	8854.9	10866.9	12212.7	12886.9	12515.3	9239.8	4042.6	1032.5	480.4
77.5°	1706.8	1847.4	4119.6	6723.5	8061.3	7456.1	6312.1	4589.4	1486.4	392.8	254.8
80°	1011.3	1064.4	1534.2	3347.1	4241.7	3517.0	2776.5	1696.1	756.5	209.7	177.8
82.5°	302.6	358.3	846.7	1242.2	1661.6	1035.2	875.9	968.8	392.8	114.1	148.6
85°	0.0	0.0	180.5	384.9	435.3	169.9	169.9	549.5	71.7	47.8	108.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	13.3	8.0	10.6	23.9
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°	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4
2.5°	4918.5	4825.6	4716.8	4613.3	4515.1	4387.7	4326.6	4252.3	4188.6	4154.1	4172.6
5°	4820.3	4674.3	4451.4	4225.7	3997.5	3782.5	3588.7	3458.6	3341.8	3280.8	3294.1
7.5°	4735.4	4539.0	4191.2	3822.3	3456.0	3087.0	2787.1	2553.5	2373.0	2298.7	2285.4
10°	4698.2	4451.4	3960.3	3429.4	2866.7	2370.3	1945.6	1688.2	1505.0	1414.8	1430.7
12.5°	4716.8	4406.2	3763.9	3044.5	2314.6	1735.9	1329.8	1088.3	958.2	905.1	891.9
15°	4769.9	4395.6	3588.7	2651.7	1786.4	1213.0	918.4	820.2	793.7	788.3	788.3
17.5°	4830.9	4398.3	3408.2	2253.5	1356.4	899.8	785.7	767.1	759.1	753.8	756.5
20°	4892.0	4398.3	3201.2	1850.1	1019.3	777.7	748.5	735.3	727.3	724.6	724.6
22.5°	4966.3	4398.3	2970.2	1475.8	817.5	737.9	714.0	706.1	698.1	695.4	692.8
25°	5056.6	4400.9	2715.4	1154.6	743.2	703.4	684.8	676.9	668.9	663.6	663.6
27.5°	5186.6	4422.2	2434.0	899.8	700.8	671.6	655.6	647.7	639.7	631.7	631.7
30°	5375.1	4475.2	2118.2	743.2	660.9	637.0	621.1	615.8	607.8	599.9	597.2
32.5°	5656.4	4568.1	1791.7	666.2	623.8	599.9	581.3	576.0	568.0	560.1	557.4
35°	6049.3	4738.0	1473.2	618.5	576.0	552.1	541.5	538.8	528.2	520.3	520.3
37.5°	6625.3	5014.1	1167.9	570.7	536.2	517.6	504.3	499.0	488.4	480.4	477.8
40°	7328.7	5372.4	907.8	533.5	499.0	480.4	467.2	459.2	445.9	435.3	430.0
42.5°	8225.9	5810.4	716.7	493.7	464.5	445.9	435.3	419.4	400.8	384.9	382.2
45°	9160.2	6261.6	591.9	456.5	432.7	416.7	403.5	382.2	355.7	337.1	331.8
47.5°	9876.9	6543.0	517.6	416.7	398.2	384.9	369.0	342.4	310.6	289.3	284.0
50°	10389.2	6585.5	461.9	379.6	369.0	355.7	331.8	299.9	265.4	244.2	238.9
52.5°	10641.3	6394.3	416.7	345.1	337.1	323.8	294.6	260.1	223.0	201.7	196.4
55°	10755.5	6033.4	374.3	315.9	305.3	289.3	257.5	220.3	183.2	164.6	159.3
57.5°	10710.3	5499.8	337.1	286.7	273.4	254.8	220.3	180.5	151.3	132.7	130.1
60°	10375.9	4751.3	299.9	257.5	241.5	220.3	185.8	148.6	122.1	108.8	106.2
62.5°	9653.9	3822.3	262.8	223.0	212.3	191.1	159.3	122.1	100.9	92.9	90.2
65°	8175.4	2702.1	225.6	188.5	183.2	161.9	132.7	100.9	87.6	82.3	79.6
67.5°	5876.7	1643.0	191.1	161.9	156.6	138.0	111.5	87.6	79.6	77.0	77.0
70°	2954.3	777.7	151.3	132.7	132.7	114.1	95.6	79.6	77.0	74.3	74.3
72.5°	1003.3	331.8	114.1	103.5	108.8	98.2	82.3	74.3	74.3	74.3	74.3
75°	342.4	175.2	79.6	74.3	79.6	79.6	71.7	71.7	74.3	74.3	74.3
77.5°	223.0	116.8	55.7	50.4	61.1	61.1	61.1	66.4	71.7	71.7	71.7
80°	183.2	63.7	37.2	34.5	45.1	45.1	50.4	61.1	66.4	66.4	66.4
82.5°	156.6	39.8	21.2	23.9	31.9	34.5	42.5	50.4	58.4	61.1	61.1
85°	106.2	21.2	15.9	18.6	21.2	26.5	34.5	42.5	47.8	53.1	53.1
87.5°	29.2	8.0	10.6	13.3	13.3	18.6	26.5	31.9	37.2	39.8	39.8
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)