

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: P640702

Luminaire Tested: GWS-SA5E-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28984.9 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

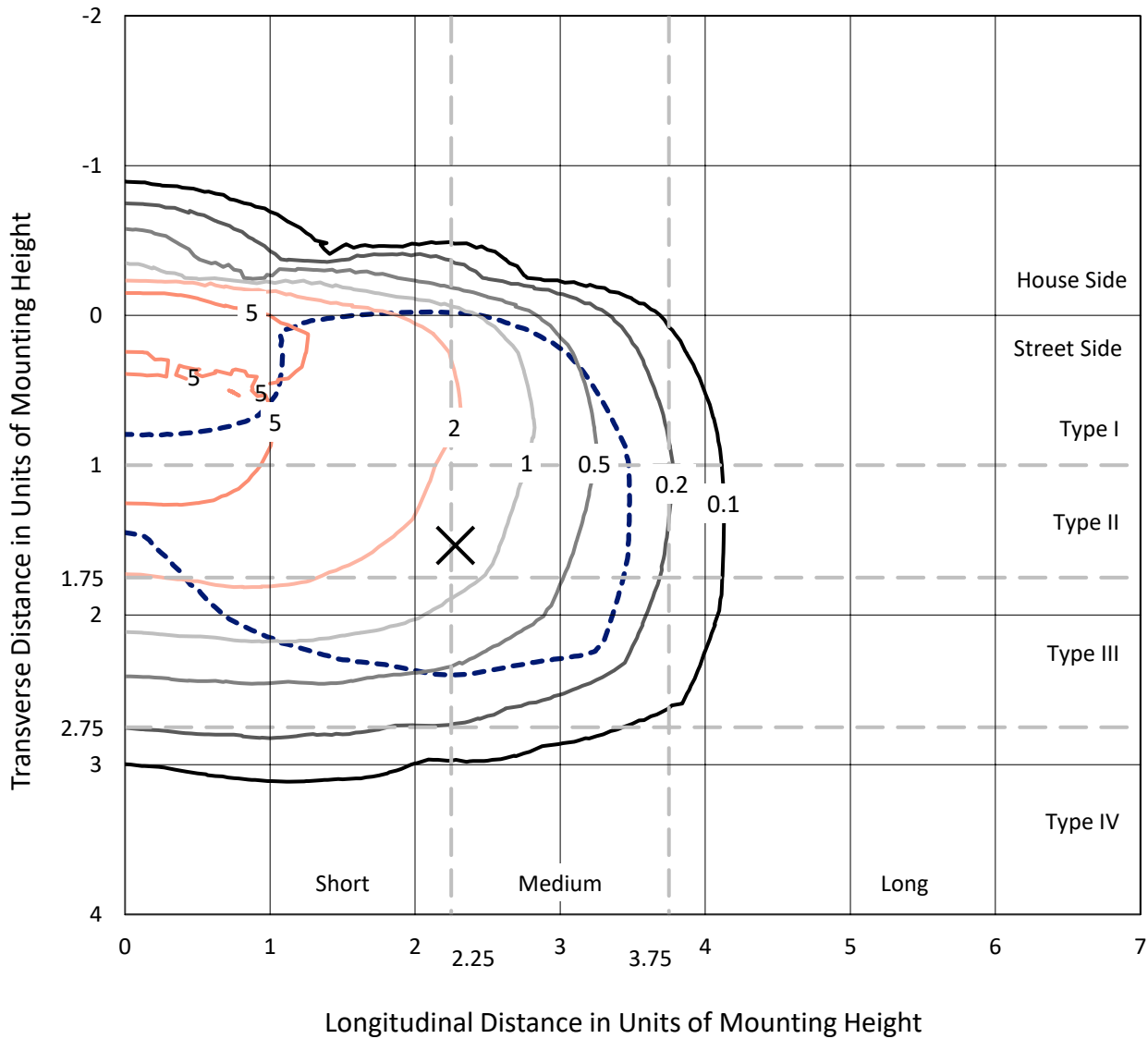
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640702
 CATALOG NUMBER: GWS-SA5E-735-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

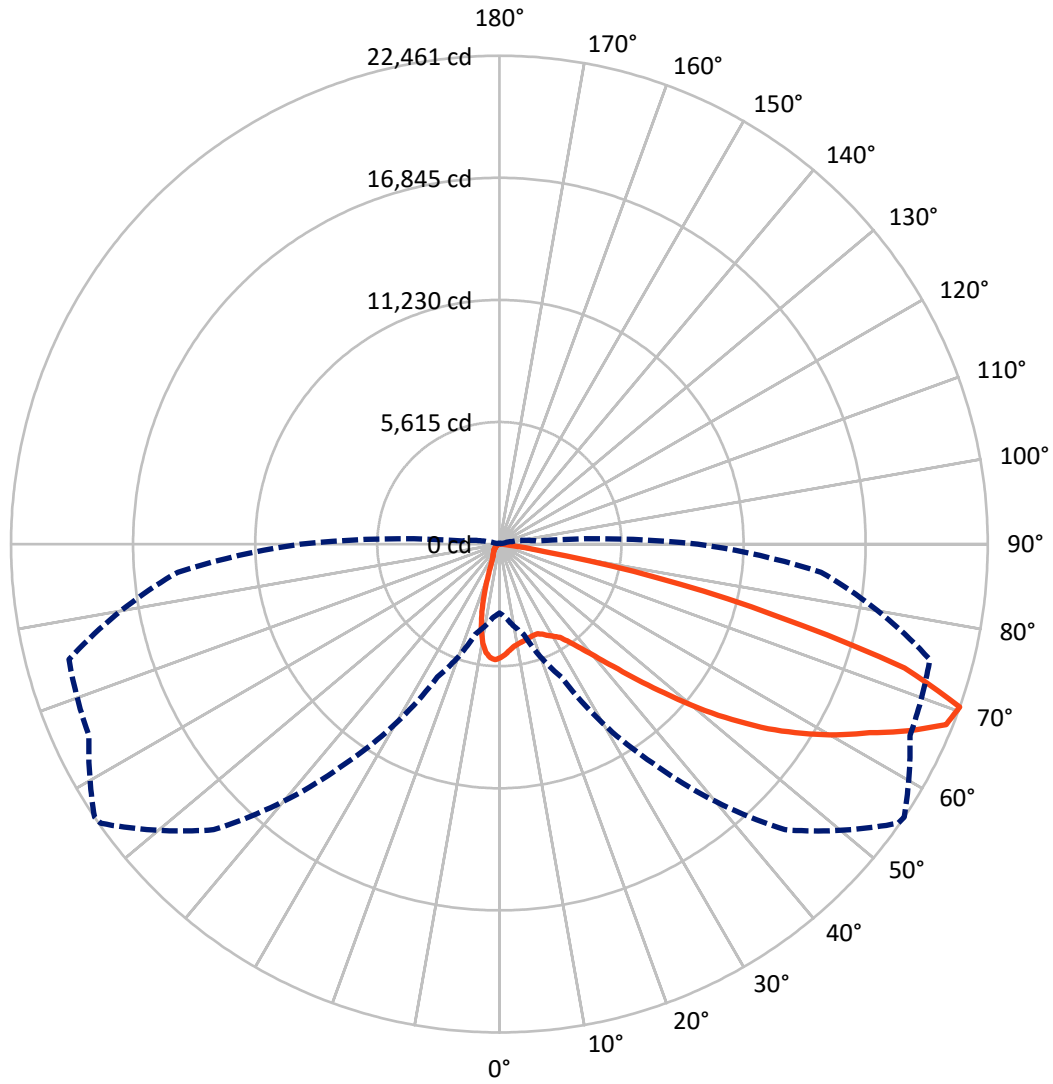
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P640702
CATALOG NUMBER: GWS-SA5E-735-U-T3R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P640702
 CATALOG NUMBER: GWS-SA5E-735-U-T3R-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2603.4	0.0	2603.4
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	26381.5	0.0	26381.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	28984.9	0.0	28984.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.7	1.5
10°-20°	1009.2	3.5
20°-30°	1598.6	5.5
30°-40°	2756.8	9.5
40°-50°	4655.3	16.1
50°-60°	6840.1	23.6
60°-70°	8109.4	28.0
70°-80°	3458.2	11.9
80°-90°	108.6	0.4
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°	28984.9	100.0
0°-180°	28984.9	100.0

Coefficient of Utilization



REPORT NUMBER: P640702

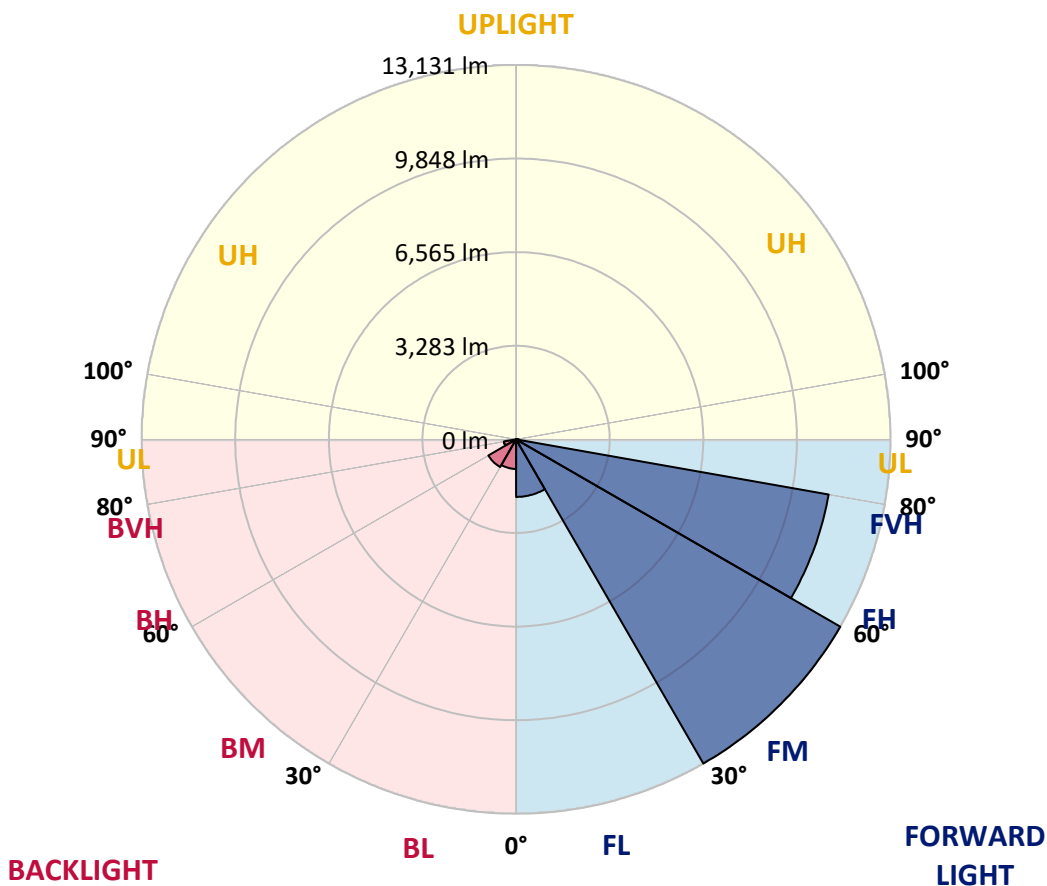
CATALOG NUMBER: GWS-SA5E-735-U-T3R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2019.7	7.0			
FM (30°-60°)	13130.9	45.3			
FH (60°-80°)	11133.3	38.4			G4/12000
FVH (80°-90°)	97.6	0.3			G1/100
BL (0°-30°)	1036.8	3.6	B3/2500		
BM (30°-60°)	1121.3	3.9	B2/2500		
BH (60°-80°)	434.2	1.5	B1/500		G1/500
BVH (80°-90°)	11.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P640702

CATALOG NUMBER: GWS-SA5E-735-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3
2.5°	4865.3	4857.3	4862.6	4902.4	4976.8	5011.3	5069.7	5080.3	5128.1	5189.1	5213.0
5°	4549.4	4522.9	4536.2	4591.9	4676.8	4772.4	4881.2	4910.4	5029.9	5165.2	5266.1
7.5°	4260.1	4230.9	4262.8	4350.4	4469.8	4573.3	4735.2	4753.8	4944.9	5183.8	5366.9
10°	3806.2	3814.2	3877.9	4031.8	4215.0	4430.0	4647.6	4674.2	4910.4	5244.8	5528.9
12.5°	3458.5	3439.9	3509.0	3684.1	3941.6	4254.8	4581.3	4615.8	4913.1	5337.7	5735.9
15°	3296.6	3291.3	3320.5	3447.9	3697.4	4066.4	4520.2	4565.4	4947.6	5422.7	5932.3
17.5°	3301.9	3294.0	3291.3	3365.6	3551.4	3925.7	4453.9	4512.3	4976.8	5515.6	6139.3
20°	3532.8	3495.7	3429.3	3394.8	3506.3	3835.4	4408.8	4475.1	5019.2	5613.8	6359.6
22.5°	4015.9	4029.2	3851.4	3665.6	3612.5	3846.0	4403.4	4480.4	5112.1	5767.7	6630.4
25°	4982.1	4960.8	4631.7	4215.0	3925.7	3968.1	4496.3	4589.2	5295.3	5988.0	6885.2
27.5°	6192.4	6211.0	5759.8	5096.2	4491.0	4220.3	4666.2	4759.1	5507.6	6126.1	7055.1
30°	7511.6	7493.0	7009.9	6274.7	5292.6	4639.7	4836.1	4918.4	5613.8	6200.4	7230.2
32.5°	8759.1	8716.6	8238.9	7469.1	6314.5	5300.6	5069.7	5117.4	5754.5	6362.3	7466.5
35°	9823.5	9820.8	9404.1	8583.9	7365.6	6128.7	5470.5	5510.3	6017.2	6619.8	7814.2
37.5°	10922.3	10885.2	10418.0	9669.5	8445.9	7036.5	6083.6	6067.7	6431.3	6999.3	8241.5
40°	11824.8	11800.9	11442.6	10723.3	9568.7	8039.8	6826.8	6779.0	6922.4	7524.9	8836.1
42.5°	12493.7	12496.3	12384.9	11946.9	10757.8	9199.7	7761.1	7686.8	7684.1	8318.5	9621.7
45°	13000.6	13035.1	13202.4	13136.0	12161.9	10550.7	8958.2	8881.2	8751.1	9348.4	10521.5
47.5°	13236.9	13282.0	13786.3	14051.7	13390.8	11891.2	10383.5	10221.6	9966.8	10718.0	11527.5
50°	13213.0	13292.6	13996.0	14802.9	14505.6	13250.1	11936.3	11859.3	11442.6	12167.2	12522.9
52.5°	12671.5	12841.4	14009.3	15259.4	15362.9	14503.0	13542.1	13398.8	13197.1	13680.1	13457.2
55°	11201.0	11408.1	13449.2	15405.4	16031.8	15596.5	15113.4	14996.7	14662.2	15108.1	14272.0
57.5°	10402.1	10579.9	12270.7	15333.8	16599.8	16607.8	16512.2	16416.7	16140.7	16520.2	15227.6
60°	9921.7	10099.5	11641.7	15071.0	17114.8	17674.8	17826.1	17815.5	17417.4	18126.0	16347.7
62.5°	9218.3	9462.5	10986.0	14388.8	17481.1	18725.9	19182.5	19110.8	18667.5	19798.2	17457.2
65°	7798.3	8010.6	9643.0	13263.4	17266.1	19596.5	20652.9	20690.1	20177.8	21372.2	18333.1
67.5°	5467.8	5624.4	7246.2	10901.1	15806.2	19883.2	22157.9	22155.2	21282.0	22179.1	17945.6
70°	3169.2	3384.2	4281.3	6739.2	12297.3	18579.9	22383.5	22460.5	20833.4	20493.7	14850.7
72.5°	1226.3	1404.1	2426.0	3580.6	6412.7	14232.2	19254.1	19479.7	17435.9	15808.9	10335.8
75°	366.3	408.8	1141.3	1905.8	2574.6	6874.6	13035.1	13098.9	11960.2	9860.6	5297.9
77.5°	273.4	302.6	499.0	963.5	902.5	2083.6	6744.5	7365.6	6349.0	3522.2	1459.9
80°	185.8	220.3	355.7	469.8	334.4	554.7	1895.2	2081.0	1937.6	791.0	366.3
82.5°	82.3	106.2	252.2	236.2	122.1	159.3	583.9	621.1	400.8	238.9	127.4
85°	8.0	10.6	95.6	103.5	45.1	37.2	122.1	122.1	87.6	82.3	53.1
87.5°	0.0	0.0	2.7	5.3	5.3	8.0	10.6	13.3	15.9	21.2	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640702
 CATALOG NUMBER: GWS-SA5E-735-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3	5226.3
2.5°	5274.0	5242.2	5282.0	5313.9	5321.8	5263.4	5228.9	5178.5	5167.9	5170.5	5157.3
5°	5345.7	5329.8	5359.0	5324.5	5234.2	5064.4	4918.4	4756.5	4668.9	4618.4	4613.1
7.5°	5478.4	5470.5	5438.6	5282.0	5000.7	4623.7	4260.1	3904.4	3684.1	3604.5	3591.2
10°	5674.8	5658.9	5528.9	5157.3	4557.4	3832.8	3222.3	2712.7	2402.1	2311.9	2200.4
12.5°	5900.5	5868.6	5584.6	4889.2	3888.5	2885.2	2123.4	1552.8	1284.7	1205.0	1205.0
15°	6118.1	6049.1	5552.7	4445.9	3065.7	1876.6	1186.5	897.1	814.9	793.6	793.6
17.5°	6341.1	6208.4	5428.0	3840.7	2118.1	1109.5	791.0	735.2	724.6	727.3	729.9
20°	6550.8	6343.7	5207.7	3113.5	1351.0	775.0	708.7	695.4	690.1	695.4	692.8
22.5°	6779.0	6468.5	4873.3	2319.8	878.6	698.1	674.2	663.6	658.3	666.2	666.2
25°	7004.6	6558.7	4430.0	1560.7	698.1	650.3	637.0	626.4	621.1	623.8	623.8
27.5°	7121.4	6524.2	3848.7	995.4	626.4	602.5	589.2	576.0	568.0	565.4	568.0
30°	7201.1	6418.0	3137.4	708.7	568.0	538.8	525.5	514.9	493.7	480.4	485.7
32.5°	7325.8	6311.9	2365.0	594.6	520.2	475.1	453.9	427.3	398.1	384.9	384.9
35°	7474.4	6165.9	1658.9	536.2	469.8	422.0	382.2	337.1	302.6	292.0	292.0
37.5°	7670.9	6027.9	1104.2	496.3	427.3	376.9	321.2	268.1	230.9	225.6	223.0
40°	7965.5	5911.1	777.7	467.2	390.2	329.1	262.8	207.0	180.5	172.5	172.5
42.5°	8347.7	5791.6	615.8	438.0	358.3	284.0	209.7	164.6	143.3	138.0	135.4
45°	8820.2	5651.0	536.2	411.4	326.5	236.2	167.2	138.0	122.1	116.8	116.8
47.5°	9332.4	5459.8	499.0	376.9	289.3	191.1	140.7	119.4	111.5	108.8	106.2
50°	9836.7	5202.4	467.2	345.1	246.8	156.6	122.1	108.8	103.5	100.9	100.9
52.5°	10277.4	4902.4	427.3	307.9	201.7	135.4	108.8	100.9	95.6	90.2	87.6
55°	10654.3	4576.0	376.9	265.4	164.6	119.4	100.9	92.9	87.6	82.3	79.6
57.5°	11140.0	4390.2	302.6	215.0	135.4	106.2	92.9	84.9	79.6	71.7	71.7
60°	11678.8	4254.8	225.6	169.9	116.8	98.2	84.9	77.0	71.7	63.7	63.7
62.5°	12111.5	4053.1	177.8	138.0	100.9	87.6	77.0	69.0	63.7	55.7	55.7
65°	12276.0	3636.4	146.0	108.8	82.3	77.0	69.0	63.7	55.7	47.8	47.8
67.5°	11532.8	2802.9	122.1	87.6	69.0	66.4	61.0	58.4	47.8	42.5	39.8
70°	9133.4	1709.4	100.9	71.7	58.4	55.7	55.7	50.4	42.5	39.8	37.2
72.5°	6258.8	881.2	82.3	58.4	50.4	50.4	47.8	45.1	39.8	37.2	37.2
75°	3251.5	294.6	63.7	45.1	39.8	42.5	42.5	39.8	37.2	37.2	34.5
77.5°	931.7	132.7	47.8	34.5	31.9	31.9	34.5	34.5	34.5	31.9	31.9
80°	241.5	77.0	34.5	26.5	26.5	26.5	26.5	29.2	31.9	29.2	29.2
82.5°	98.2	42.5	23.9	21.2	21.2	21.2	21.2	23.9	26.5	26.5	26.5
85°	61.0	21.2	18.6	18.6	18.6	15.9	15.9	18.6	18.6	21.2	21.2
87.5°	37.2	15.9	15.9	15.9	15.9	13.3	13.3	13.3	13.3	13.3	13.3
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)