

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: P641032

Luminaire Tested: GWS-SA5F-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641032
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-SA5F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24067.4 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

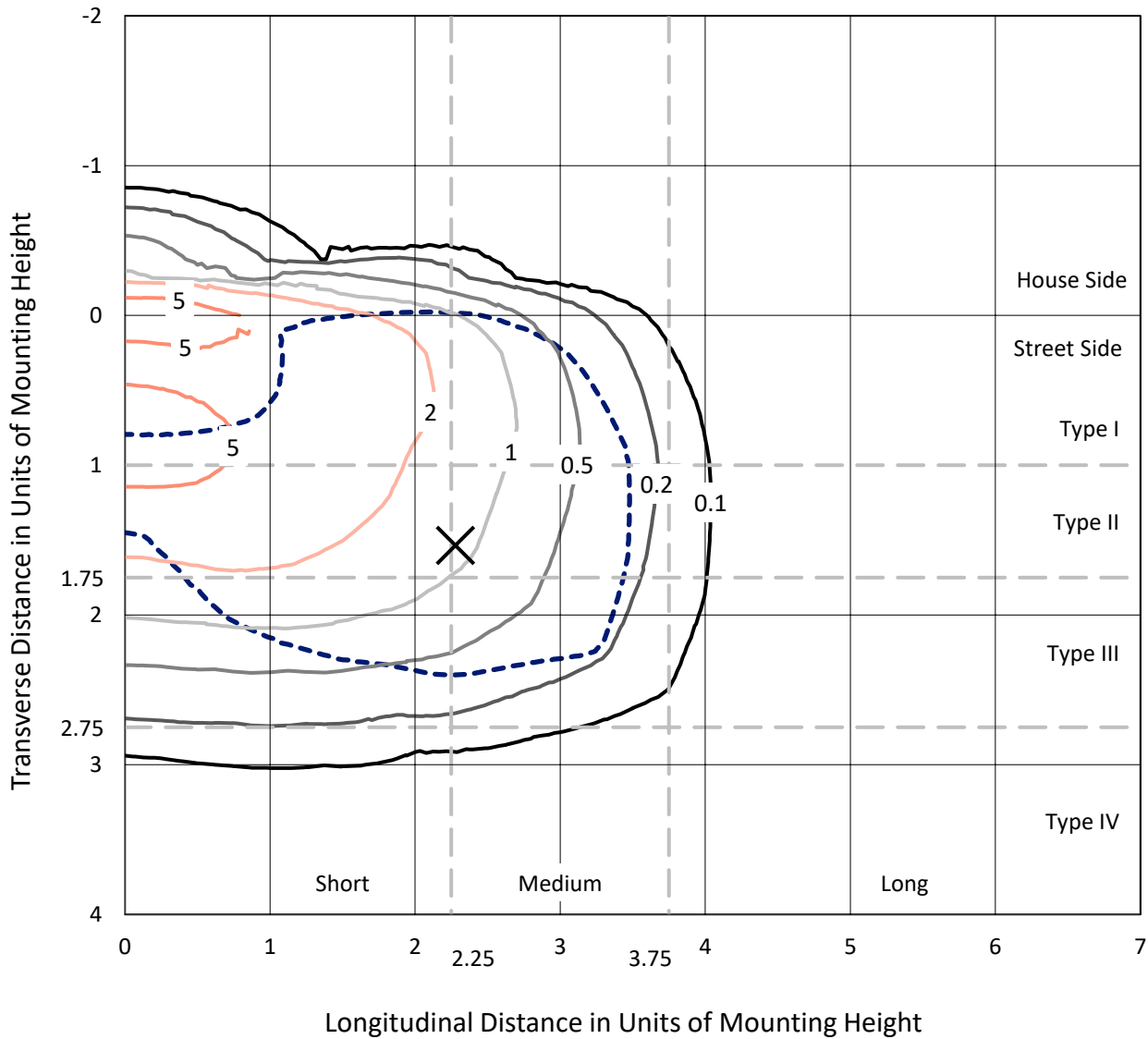
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641032
 CATALOG NUMBER: GWS-SA5F-722-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

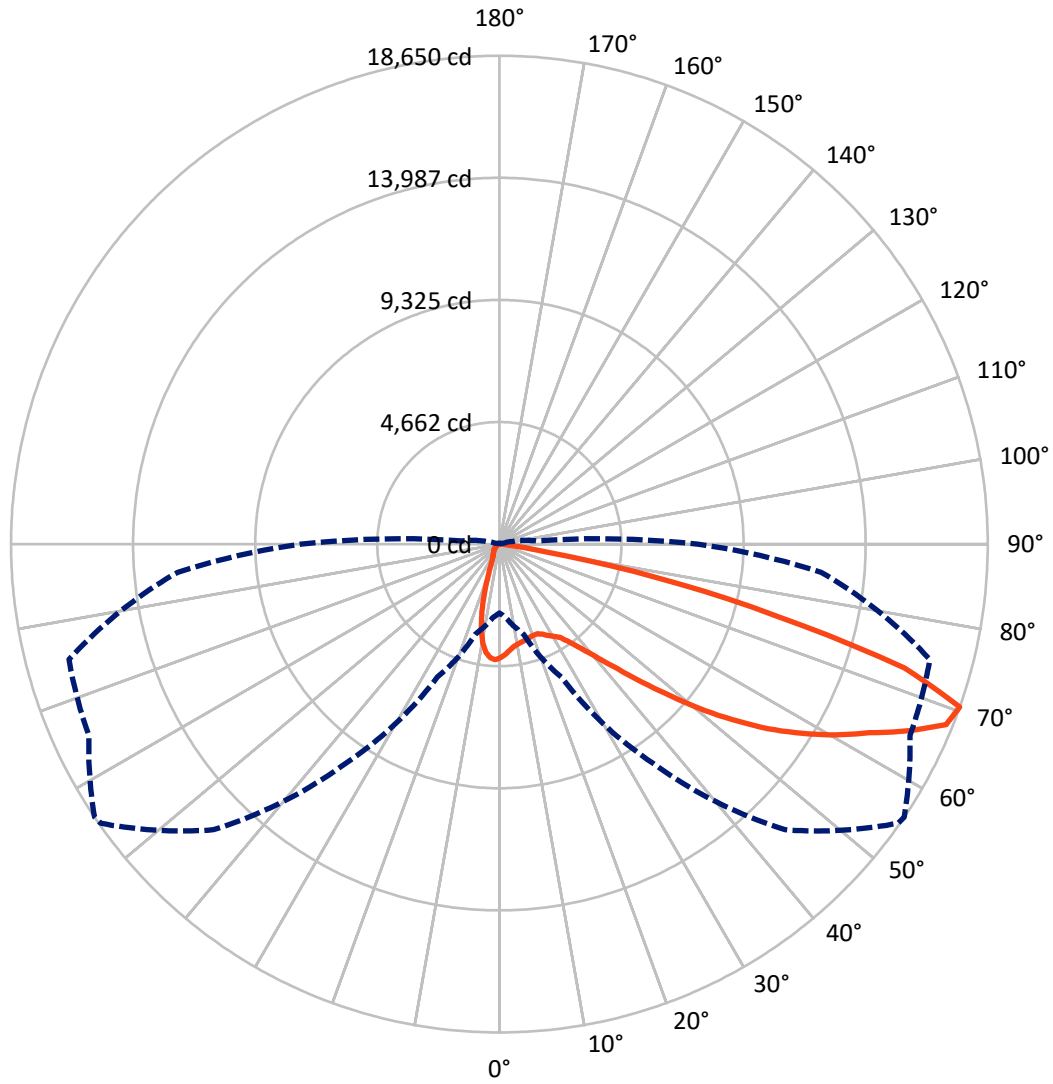
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P641032
CATALOG NUMBER: GWS-SA5F-722-U-T3R-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641032

CATALOG NUMBER: GWS-SA5F-722-U-T3R-W-HSS

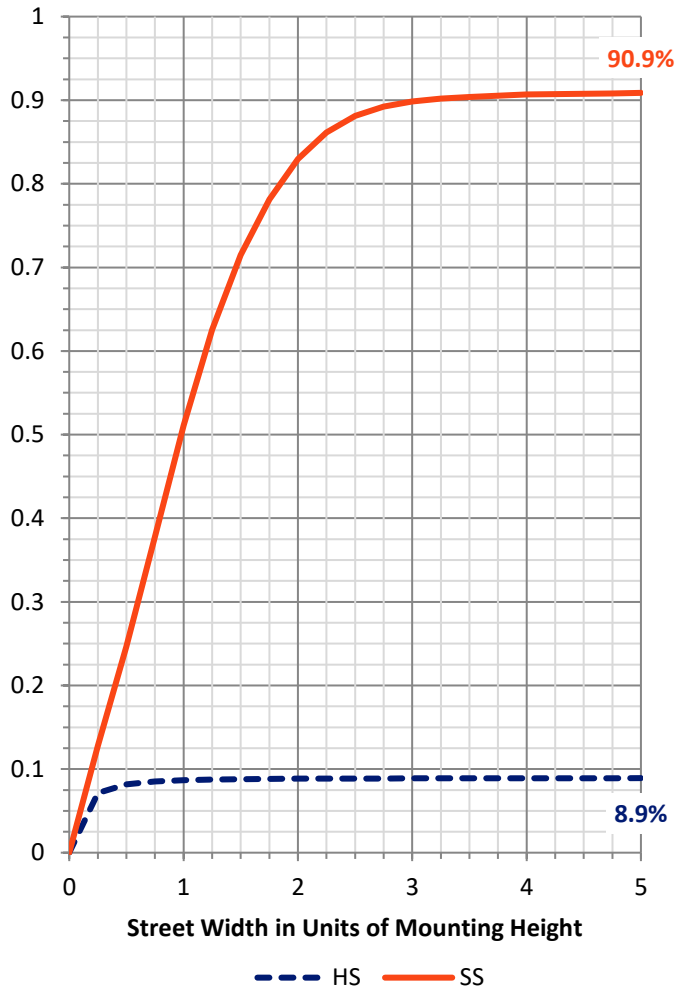
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.7	0.0	2161.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	21905.7	0.0	21905.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	24067.4	0.0	24067.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	1.5
10°-20°	838.0	3.5
20°-30°	1327.4	5.5
30°-40°	2289.1	9.5
40°-50°	3865.5	16.1
50°-60°	5679.7	23.6
60°-70°	6733.6	28.0
70°-80°	2871.5	11.9
80°-90°	90.2	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°	24067.4	100.0
0°-180°	24067.4	100.0

Coefficient of Utilization



REPORT NUMBER: P641032

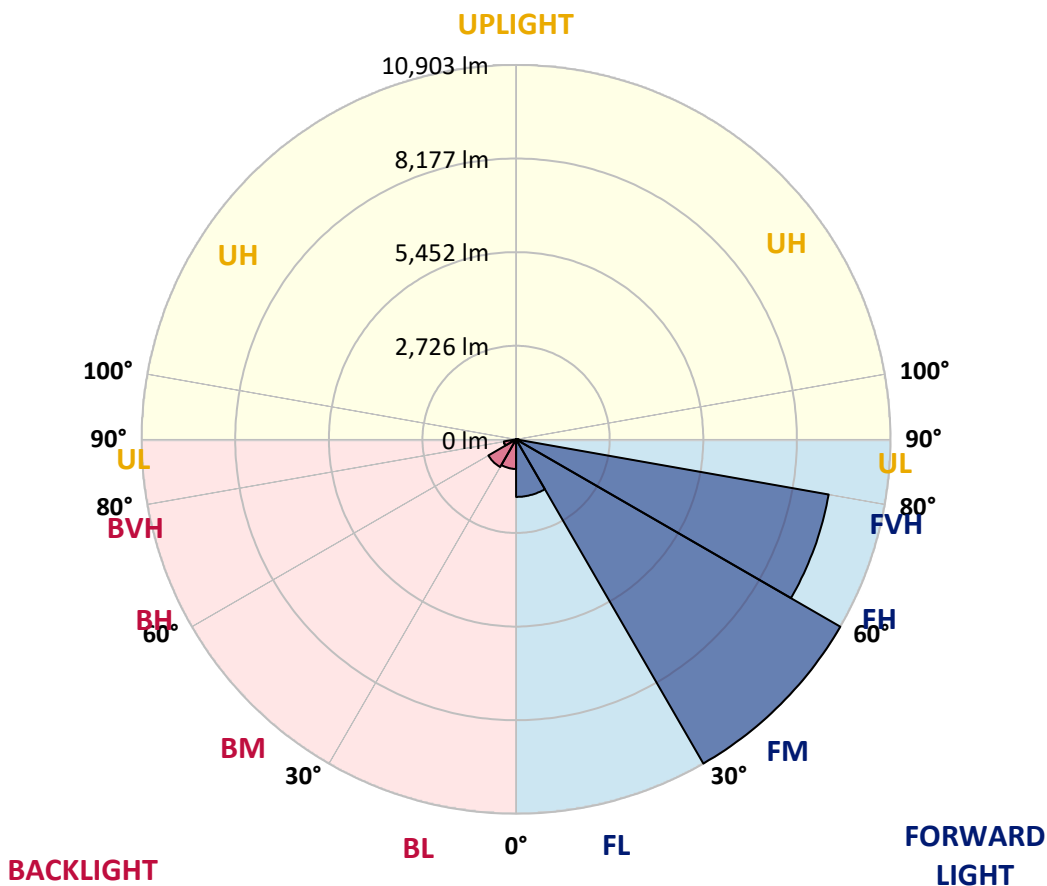
CATALOG NUMBER: GWS-SA5F-722-U-T3R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.1	7.0			
FM (30°-60°)	10903.2	45.3			
FH (60°-80°)	9244.5	38.4			G4/12000
FVH (80°-90°)	81.0	0.3			G1/100
BL (0°-30°)	860.9	3.6	B2/1000		
BM (30°-60°)	931.1	3.9	B1/1000		
BH (60°-80°)	360.6	1.5	B1/500		G1/500
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





REPORT NUMBER: P641032

CATALOG NUMBER: GWS-SA5F-722-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6
2.5°	4039.9	4033.2	4037.7	4070.7	4132.4	4161.1	4209.6	4218.4	4258.0	4308.7	4328.6
5°	3777.6	3755.5	3766.6	3812.8	3883.4	3962.7	4053.1	4077.3	4176.5	4288.9	4372.7
7.5°	3537.4	3513.1	3539.6	3612.3	3711.5	3797.4	3931.9	3947.3	4106.0	4304.3	4456.4
10°	3160.5	3167.1	3220.0	3347.8	3499.9	3678.4	3859.1	3881.2	4077.3	4355.0	4590.8
12.5°	2871.8	2856.3	2913.6	3059.1	3272.9	3532.9	3804.0	3832.7	4079.5	4432.2	4762.8
15°	2737.3	2732.9	2757.2	2862.9	3070.1	3376.5	3753.3	3790.8	4108.2	4502.7	4925.8
17.5°	2741.7	2735.1	2732.9	2794.6	2948.9	3259.7	3698.2	3746.7	4132.4	4579.8	5097.8
20°	2933.5	2902.6	2847.5	2818.9	2911.4	3184.7	3660.8	3715.9	4167.7	4661.4	5280.7
22.5°	3334.6	3345.6	3197.9	3043.7	2999.6	3193.5	3656.4	3720.3	4244.8	4789.2	5505.5
25°	4136.8	4119.2	3845.9	3499.9	3259.7	3294.9	3733.5	3810.6	4396.9	4972.1	5717.1
27.5°	5141.8	5157.3	4782.6	4231.6	3729.1	3504.3	3874.6	3951.7	4573.2	5086.7	5858.1
30°	6237.2	6221.8	5820.7	5210.2	4394.7	3852.5	4015.6	4083.9	4661.4	5148.4	6003.6
32.5°	7273.1	7237.8	6841.1	6201.9	5243.2	4401.3	4209.6	4249.2	4778.2	5282.9	6199.7
35°	8156.9	8154.6	7808.6	7127.6	6116.0	5088.9	4542.4	4575.4	4996.4	5496.7	6488.5
37.5°	9069.3	9038.4	8650.5	8029.0	7013.0	5842.7	5051.5	5038.2	5340.2	5811.8	6843.3
40°	9818.6	9798.8	9501.3	8904.0	7945.3	6675.8	5668.6	5628.9	5747.9	6248.2	7337.0
42.5°	10374.0	10376.2	10283.7	9920.0	8932.6	7638.9	6444.4	6382.7	6380.5	6907.2	7989.3
45°	10795.0	10823.6	10962.5	10907.4	10098.5	8760.7	7438.4	7374.4	7266.5	7762.3	8736.5
47.5°	10991.1	11028.6	11447.4	11667.8	11119.0	9873.7	8621.9	8487.4	8275.9	8899.6	9571.8
50°	10971.3	11037.4	11621.5	12291.5	12044.6	11002.2	9911.2	9847.3	9501.3	10102.9	10398.3
52.5°	10521.7	10662.8	11632.5	12670.6	12756.5	12042.4	11244.6	11125.6	10958.1	11359.2	11174.1
55°	9300.7	9472.6	11167.5	12791.8	13311.9	12950.5	12549.3	12452.4	12174.7	12544.9	11850.7
57.5°	8637.3	8785.0	10188.9	12732.3	13783.6	13790.2	13710.8	13631.5	13402.3	13717.4	12644.1
60°	8238.4	8386.1	9666.6	12514.1	14211.1	14676.2	14801.8	14793.0	14462.4	15050.8	13574.2
62.5°	7654.3	7857.1	9122.2	11947.7	14515.3	15548.9	15928.0	15868.5	15500.4	16439.3	14495.4
65°	6475.2	6651.5	8007.0	11013.2	14336.8	16271.8	17149.0	17179.9	16754.5	17746.3	15222.7
67.5°	4540.2	4670.2	6016.8	9051.7	13124.6	16509.9	18398.6	18396.4	17671.3	18416.3	14901.0
70°	2631.5	2810.0	3555.0	5595.9	10210.9	15427.7	18586.0	18649.9	17298.9	17016.8	12331.1
72.5°	1018.2	1165.9	2014.4	2973.1	5324.8	11817.6	15987.5	16174.9	14477.8	13126.8	8582.2
75°	304.1	339.4	947.7	1582.4	2137.8	5708.3	10823.6	10876.5	9931.0	8187.7	4399.1
77.5°	227.0	251.3	414.3	800.0	749.3	1730.1	5600.3	6116.0	5271.9	2924.7	1212.2
80°	154.3	182.9	295.3	390.1	277.7	460.6	1573.6	1727.9	1608.9	656.8	304.1
82.5°	68.3	88.2	209.4	196.2	101.4	132.2	484.9	515.7	332.8	198.4	105.8
85°	6.6	8.8	79.3	86.0	37.5	30.9	101.4	101.4	72.7	68.3	44.1
87.5°	0.0	0.0	2.2	4.4	4.4	6.6	8.8	11.0	13.2	17.6	22.0
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: P641032

CATALOG NUMBER: GWS-SA5F-722-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6	4339.6
2.5°	4379.3	4352.8	4385.9	4412.3	4418.9	4370.4	4341.8	4299.9	4291.1	4293.3	4282.3
5°	4438.8	4425.5	4449.8	4421.1	4346.2	4205.2	4083.9	3949.5	3876.8	3834.9	3830.5
7.5°	4549.0	4542.4	4515.9	4385.9	4152.3	3839.3	3537.4	3242.0	3059.1	2993.0	2982.0
10°	4712.1	4698.8	4590.8	4282.3	3784.2	3182.5	2675.6	2252.4	1994.6	1919.6	1827.1
12.5°	4899.4	4873.0	4637.1	4059.7	3228.8	2395.7	1763.2	1289.3	1066.7	1000.6	1000.6
15°	5080.1	5022.8	4610.7	3691.6	2545.6	1558.2	985.2	744.9	676.6	659.0	659.0
17.5°	5265.3	5155.1	4507.1	3189.1	1758.8	921.3	656.8	610.5	601.7	603.9	606.1
20°	5439.4	5267.5	4324.2	2585.2	1121.8	643.6	588.5	577.4	573.0	577.4	575.2
22.5°	5628.9	5371.0	4046.5	1926.3	729.5	579.6	559.8	551.0	546.6	553.2	553.2
25°	5816.2	5446.0	3678.4	1295.9	579.6	540.0	529.0	520.1	515.7	517.9	517.9
27.5°	5913.2	5417.3	3195.7	826.5	520.1	500.3	489.3	478.3	471.6	469.4	471.6
30°	5979.3	5329.2	2605.1	588.5	471.6	447.4	436.4	427.6	409.9	398.9	403.3
32.5°	6082.9	5241.0	1963.7	493.7	432.0	394.5	376.9	354.8	330.6	319.6	319.6
35°	6206.3	5119.8	1377.5	445.2	390.1	350.4	317.4	279.9	251.3	242.4	242.4
37.5°	6369.4	5005.2	916.8	412.1	354.8	313.0	266.7	222.6	191.7	187.3	185.1
40°	6614.1	4908.2	645.8	387.9	324.0	273.3	218.2	171.9	149.9	143.3	143.3
42.5°	6931.4	4809.0	511.3	363.7	297.5	235.8	174.1	136.6	119.0	114.6	112.4
45°	7323.8	4692.2	445.2	341.6	271.1	196.2	138.8	114.6	101.4	97.0	97.0
47.5°	7749.1	4533.5	414.3	313.0	240.2	158.7	116.8	99.2	92.6	90.4	88.2
50°	8167.9	4319.8	387.9	286.5	205.0	130.0	101.4	90.4	86.0	83.8	83.8
52.5°	8533.7	4070.7	354.8	255.7	167.5	112.4	90.4	83.8	79.3	74.9	72.7
55°	8846.7	3799.6	313.0	220.4	136.6	99.2	83.8	77.1	72.7	68.3	66.1
57.5°	9250.0	3645.3	251.3	178.5	112.4	88.2	77.1	70.5	66.1	59.5	59.5
60°	9697.4	3532.9	187.3	141.1	97.0	81.5	70.5	63.9	59.5	52.9	52.9
62.5°	10056.7	3365.4	147.7	114.6	83.8	72.7	63.9	57.3	52.9	46.3	46.3
65°	10193.3	3019.4	121.2	90.4	68.3	63.9	57.3	52.9	46.3	39.7	39.7
67.5°	9576.2	2327.4	101.4	72.7	57.3	55.1	50.7	48.5	39.7	35.3	33.1
70°	7583.8	1419.3	83.8	59.5	48.5	46.3	46.3	41.9	35.3	33.1	30.9
72.5°	5196.9	731.7	68.3	48.5	41.9	41.9	39.7	37.5	33.1	30.9	30.9
75°	2699.8	244.6	52.9	37.5	33.1	35.3	35.3	33.1	30.9	30.9	28.7
77.5°	773.6	110.2	39.7	28.7	26.4	26.4	28.7	28.7	28.7	26.4	26.4
80°	200.6	63.9	28.7	22.0	22.0	22.0	22.0	24.2	26.4	24.2	24.2
82.5°	81.5	35.3	19.8	17.6	17.6	17.6	17.6	19.8	22.0	22.0	22.0
85°	50.7	17.6	15.4	15.4	15.4	13.2	13.2	15.4	15.4	17.6	17.6
87.5°	30.9	13.2	13.2	13.2	13.2	11.0	11.0	11.0	11.0	11.0	11.0
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)