

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: P641472

Luminaire Tested: GWS-SA5F-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641472
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25955.7 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

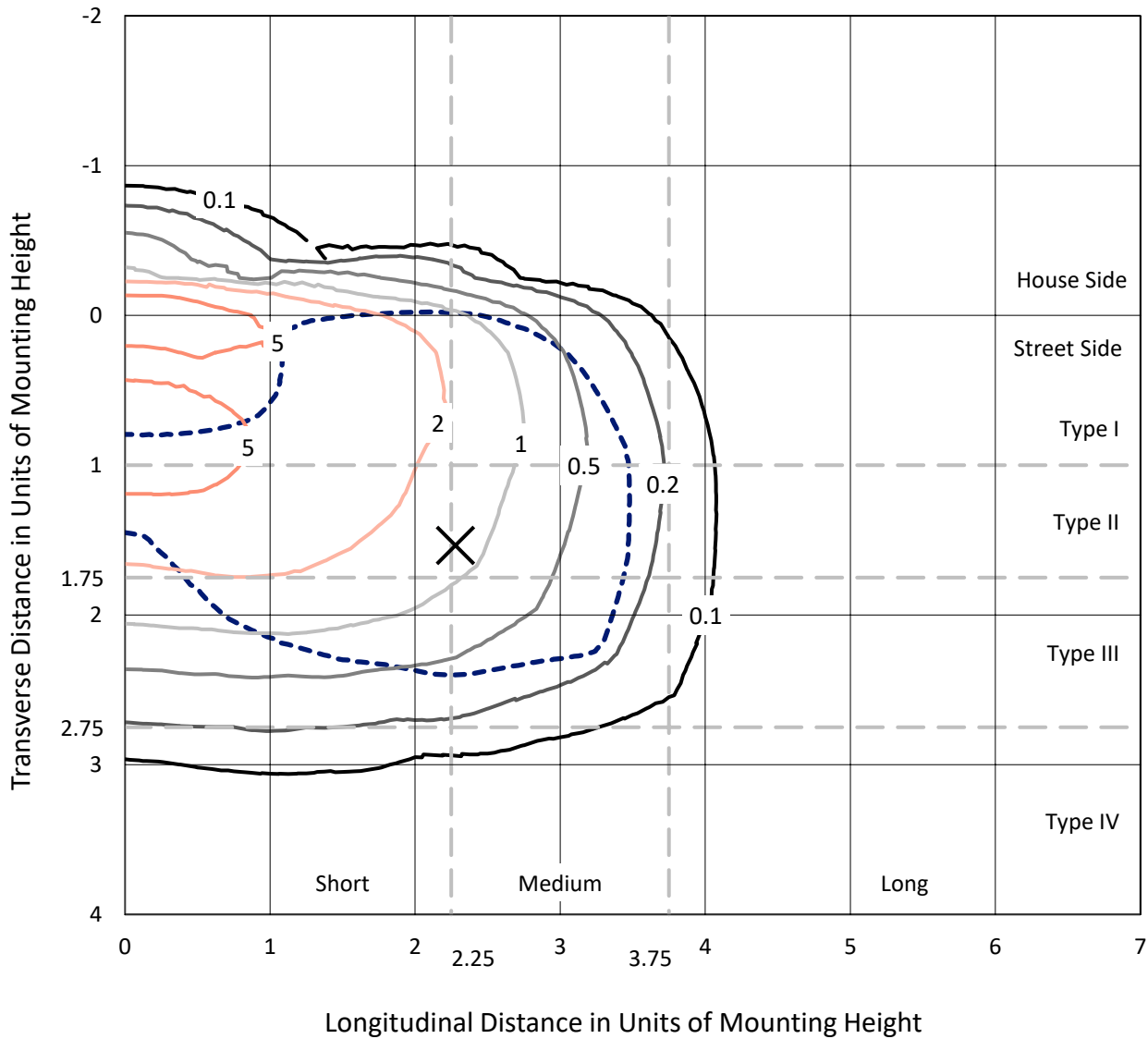
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

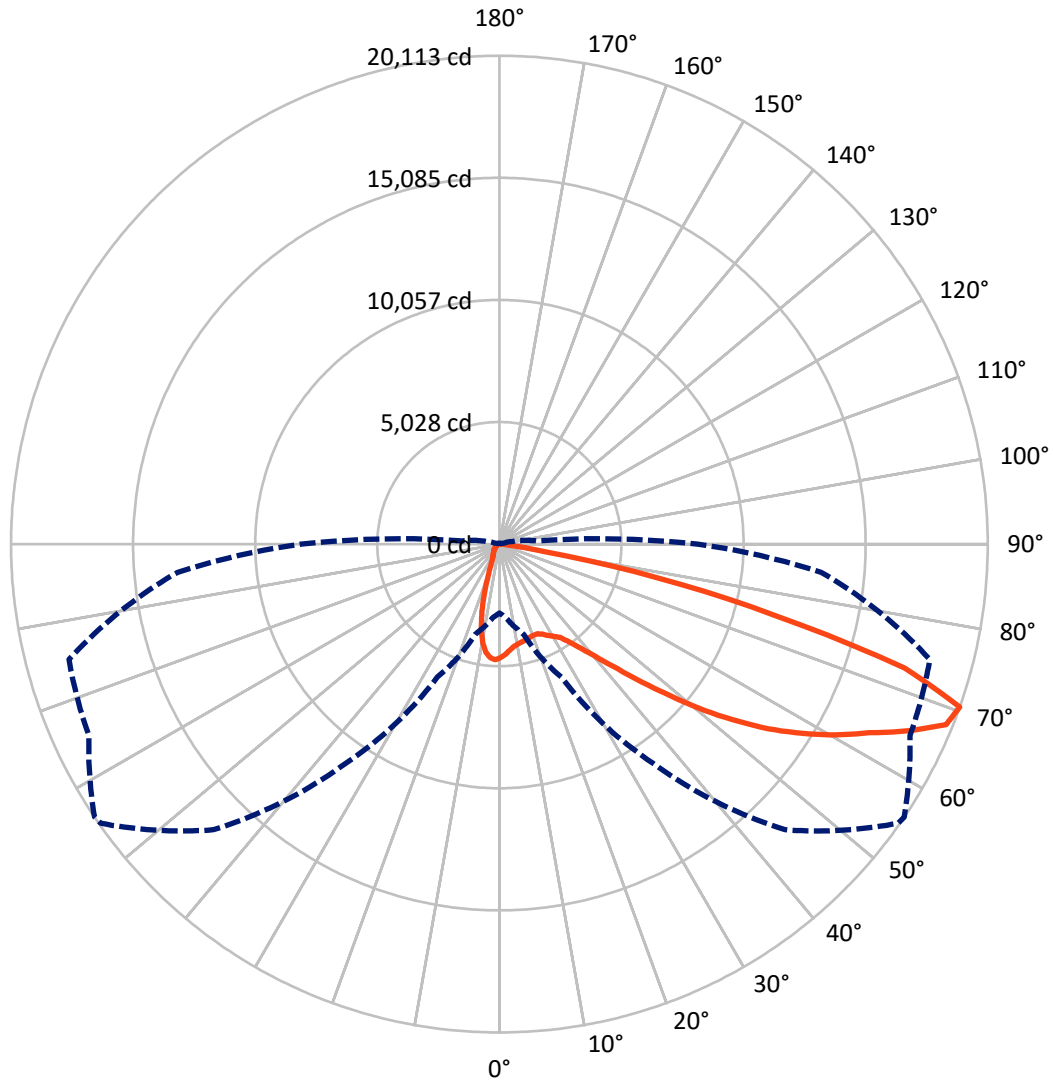
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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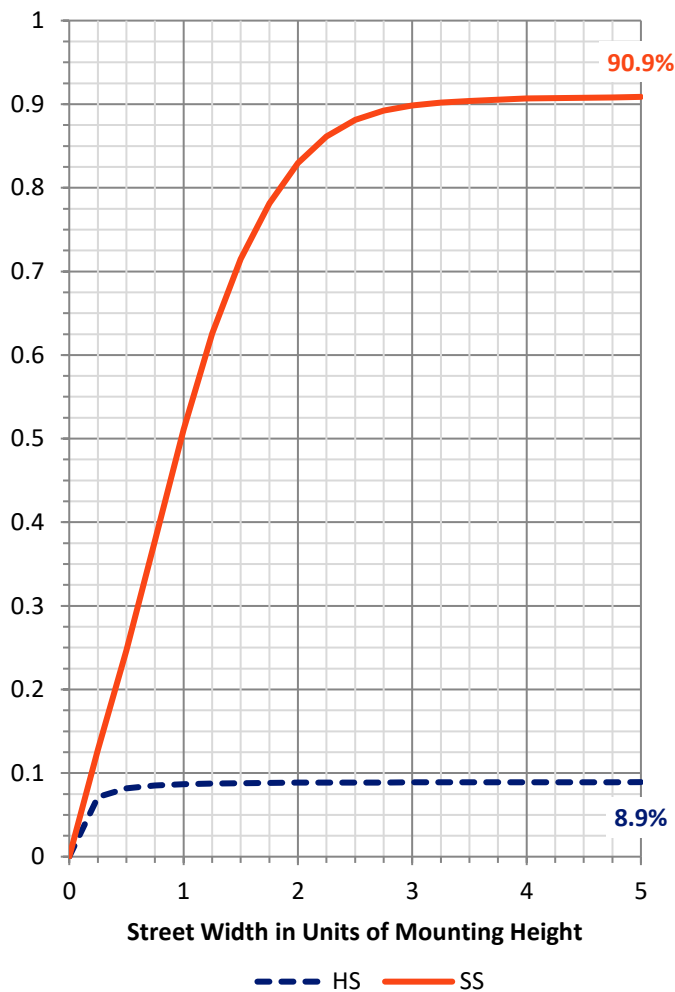
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2331.3	0.0	2331.3
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	23624.4	0.0	23624.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	25955.7	0.0	25955.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.8	1.5
10°-20°	903.7	3.5
20°-30°	1431.5	5.5
30°-40°	2468.7	9.5
40°-50°	4168.8	16.1
50°-60°	6125.3	23.6
60°-70°	7261.9	28.0
70°-80°	3096.7	11.9
80°-90°	97.2	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°	25955.7	100.0
0°-180°	25955.7	100.0

Coefficient of Utilization



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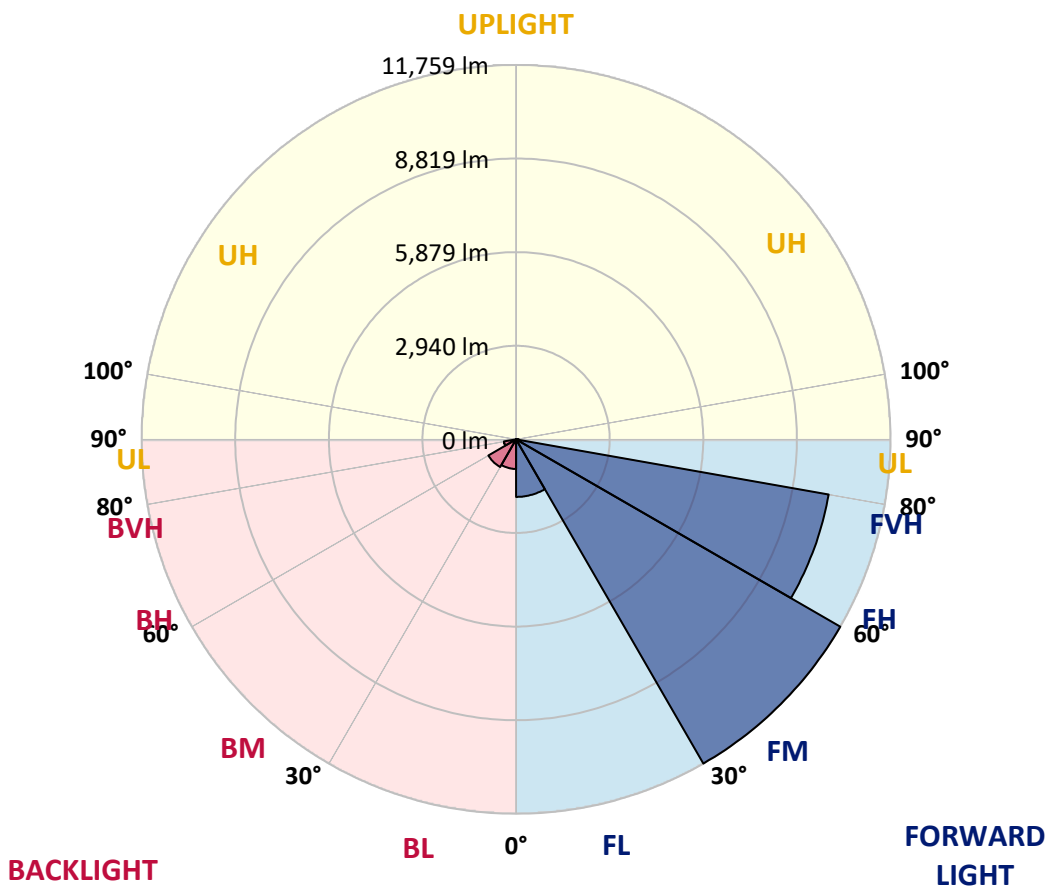
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.6	7.0			
FM (30°-60°)	11758.6	45.3			
FH (60°-80°)	9969.8	38.4			G4/12000
FVH (80°-90°)	87.4	0.3			G1/100
BL (0°-30°)	928.5	3.6	B2/1000		
BM (30°-60°)	1004.1	3.9	B2/2500		
BH (60°-80°)	388.8	1.5	B1/500		G1/500
BVH (80°-90°)	9.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1
2.5°	4356.8	4349.7	4354.4	4390.1	4456.6	4487.5	4539.8	4549.3	4592.1	4646.8	4668.2
5°	4074.0	4050.2	4062.1	4112.0	4188.1	4273.6	4371.1	4397.2	4504.2	4625.4	4715.7
7.5°	3814.9	3788.7	3817.3	3895.7	4002.7	4095.4	4240.4	4257.0	4428.1	4642.0	4806.0
10°	3408.4	3415.6	3472.6	3610.5	3774.5	3967.0	4161.9	4185.7	4397.2	4696.7	4951.0
12.5°	3097.1	3080.4	3142.2	3299.1	3529.7	3810.1	4102.5	4133.4	4399.6	4779.9	5136.4
15°	2952.1	2947.3	2973.5	3087.6	3311.0	3641.4	4047.8	4088.2	4430.5	4856.0	5312.3
17.5°	2956.8	2949.7	2947.3	3013.9	3180.3	3515.4	3988.4	4040.7	4456.6	4939.2	5497.7
20°	3163.6	3130.3	3070.9	3040.0	3139.9	3434.6	3948.0	4007.4	4494.7	5027.1	5695.0
22.5°	3596.2	3608.1	3448.9	3282.5	3234.9	3444.1	3943.2	4012.2	4577.9	5165.0	5937.4
25°	4461.4	4442.4	4147.7	3774.5	3515.4	3553.4	4026.4	4109.6	4741.9	5362.2	6165.6
27.5°	5545.3	5561.9	5157.8	4563.6	4021.7	3779.2	4178.6	4261.7	4932.0	5485.8	6317.7
30°	6726.6	6709.9	6277.3	5618.9	4739.5	4154.8	4330.7	4404.4	5027.1	5552.4	6474.6
32.5°	7843.7	7805.7	7377.8	6688.5	5654.6	4746.6	4539.8	4582.6	5153.1	5697.4	6686.2
35°	8796.8	8794.5	8421.3	7686.8	6595.8	5488.2	4898.7	4934.4	5388.4	5927.9	6997.5
37.5°	9780.9	9747.6	9329.2	8659.0	7563.2	6301.1	5447.8	5433.5	5759.2	6267.8	7380.2
40°	10589.0	10567.6	10246.7	9602.6	8568.6	7199.6	6113.3	6070.5	6198.9	6738.5	7912.6
42.5°	11188.0	11190.3	11090.5	10698.3	9633.5	8238.3	6950.0	6883.4	6881.1	7449.1	8616.2
45°	11642.0	11672.9	11822.6	11763.2	10890.9	9448.1	8022.0	7953.0	7836.6	8371.4	9421.9
47.5°	11853.5	11893.9	12345.5	12583.2	11991.4	10648.4	9298.3	9153.4	8925.2	9597.8	10322.8
50°	11832.1	11903.4	12533.3	13255.9	12989.6	11865.4	10688.8	10619.9	10246.7	10895.6	11214.1
52.5°	11347.2	11499.3	12545.2	13664.7	13757.4	12987.3	12126.8	11998.5	11817.8	12250.4	12050.8
55°	10030.4	10215.8	12043.6	13795.4	14356.3	13966.5	13533.9	13429.4	13129.9	13529.2	12780.5
57.5°	9315.0	9474.2	10988.3	13731.2	14865.0	14872.1	14786.6	14701.0	14453.8	14793.7	13636.2
60°	8884.8	9044.0	10425.0	13495.9	15326.1	15827.6	15963.1	15953.6	15597.1	16231.7	14639.2
62.5°	8254.9	8473.6	9837.9	12885.1	15654.1	16768.9	17177.7	17113.5	16716.6	17729.1	15632.7
65°	6983.3	7173.4	8635.2	11877.3	15461.6	17548.5	18494.5	18527.8	18069.0	19138.6	16417.1
67.5°	4896.4	5036.6	6488.9	9761.8	14154.3	17805.2	19842.2	19839.8	19057.8	19861.2	16070.1
70°	2838.0	3030.5	3833.9	6034.9	11012.1	16638.1	20044.2	20113.1	18656.1	18351.9	13298.6
72.5°	1098.1	1257.4	2172.5	3206.4	5742.5	12744.8	17241.9	17443.9	15613.7	14156.7	9255.6
75°	328.0	366.0	1022.1	1706.6	2305.6	6156.1	11672.9	11729.9	10710.2	8830.1	4744.2
77.5°	244.8	271.0	446.9	862.8	808.1	1865.8	6039.6	6595.8	5685.5	3154.1	1307.3
80°	166.4	197.3	318.5	420.7	299.5	496.8	1697.1	1863.5	1735.1	708.3	328.0
82.5°	73.7	95.1	225.8	211.5	109.3	142.6	522.9	556.2	358.9	213.9	114.1
85°	7.1	9.5	85.6	92.7	40.4	33.3	109.3	109.3	78.4	73.7	47.5
87.5°	0.0	0.0	2.4	4.8	4.8	7.1	9.5	11.9	14.3	19.0	23.8
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°	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1	4680.1
2.5°	4722.9	4694.3	4730.0	4758.5	4765.6	4713.4	4682.5	4637.3	4627.8	4630.2	4618.3
5°	4787.0	4772.8	4798.9	4768.0	4687.2	4535.1	4404.4	4259.4	4180.9	4135.8	4131.0
7.5°	4905.9	4898.7	4870.2	4730.0	4478.0	4140.5	3814.9	3496.4	3299.1	3227.8	3215.9
10°	5081.8	5067.5	4951.0	4618.3	4081.1	3432.2	2885.5	2429.2	2151.1	2070.3	1970.4
12.5°	5283.8	5255.3	5001.0	4378.2	3482.1	2583.7	1901.5	1390.5	1150.4	1079.1	1079.1
15°	5478.7	5416.9	4972.4	3981.3	2745.3	1680.5	1062.5	803.4	729.7	710.7	710.7
17.5°	5678.4	5559.5	4860.7	3439.3	1896.7	993.5	708.3	658.4	648.9	651.3	653.6
20°	5866.1	5680.7	4663.4	2788.1	1209.8	694.0	634.6	622.7	618.0	622.7	620.4
22.5°	6070.5	5792.5	4363.9	2077.4	786.7	625.1	603.7	594.2	589.5	596.6	596.6
25°	6272.6	5873.3	3967.0	1397.6	625.1	582.3	570.5	560.9	556.2	558.6	558.6
27.5°	6377.2	5842.4	3446.5	891.3	560.9	539.6	527.7	515.8	508.7	506.3	508.7
30°	6448.5	5747.3	2809.5	634.6	508.7	482.5	470.6	461.1	442.1	430.2	435.0
32.5°	6560.2	5652.2	2117.8	532.4	465.9	425.5	406.4	382.7	356.5	344.6	344.6
35°	6693.3	5521.5	1485.5	480.1	420.7	377.9	342.3	301.9	271.0	261.5	261.5
37.5°	6869.2	5397.9	988.8	444.5	382.7	337.5	287.6	240.1	206.8	202.0	199.7
40°	7133.0	5293.3	696.4	418.3	349.4	294.7	235.3	185.4	161.6	154.5	154.5
42.5°	7475.3	5186.3	551.4	392.2	320.9	254.3	187.8	147.4	128.4	123.6	121.2
45°	7898.4	5060.4	480.1	368.4	292.4	211.5	149.7	123.6	109.3	104.6	104.6
47.5°	8357.1	4889.2	446.9	337.5	259.1	171.1	126.0	107.0	99.8	97.5	95.1
50°	8808.7	4658.7	418.3	309.0	221.0	140.2	109.3	97.5	92.7	90.3	90.3
52.5°	9203.3	4390.1	382.7	275.7	180.6	121.2	97.5	90.3	85.6	80.8	78.4
55°	9540.8	4097.7	337.5	237.7	147.4	107.0	90.3	83.2	78.4	73.7	71.3
57.5°	9975.8	3931.4	271.0	192.5	121.2	95.1	83.2	76.1	71.3	64.2	64.2
60°	10458.3	3810.1	202.0	152.1	104.6	87.9	76.1	68.9	64.2	57.0	57.0
62.5°	10845.7	3629.5	159.3	123.6	90.3	78.4	68.9	61.8	57.0	49.9	49.9
65°	10993.1	3256.3	130.7	97.5	73.7	68.9	61.8	57.0	49.9	42.8	42.8
67.5°	10327.5	2510.0	109.3	78.4	61.8	59.4	54.7	52.3	42.8	38.0	35.7
70°	8178.8	1530.7	90.3	64.2	52.3	49.9	49.9	45.2	38.0	35.7	33.3
72.5°	5604.7	789.1	73.7	52.3	45.2	45.2	42.8	40.4	35.7	33.3	33.3
75°	2911.7	263.8	57.0	40.4	35.7	38.0	38.0	35.7	33.3	33.3	30.9
77.5°	834.3	118.8	42.8	30.9	28.5	28.5	30.9	30.9	30.9	28.5	28.5
80°	216.3	68.9	30.9	23.8	23.8	23.8	23.8	26.1	28.5	26.1	26.1
82.5°	87.9	38.0	21.4	19.0	19.0	19.0	19.0	21.4	23.8	23.8	23.8
85°	54.7	19.0	16.6	16.6	16.6	14.3	14.3	16.6	16.6	19.0	19.0
87.5°	33.3	14.3	14.3	14.3	14.3	11.9	11.9	11.9	11.9	11.9	11.9
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)