

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: P638475

Luminaire Tested: GWS-SA4E-830-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19689.5 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

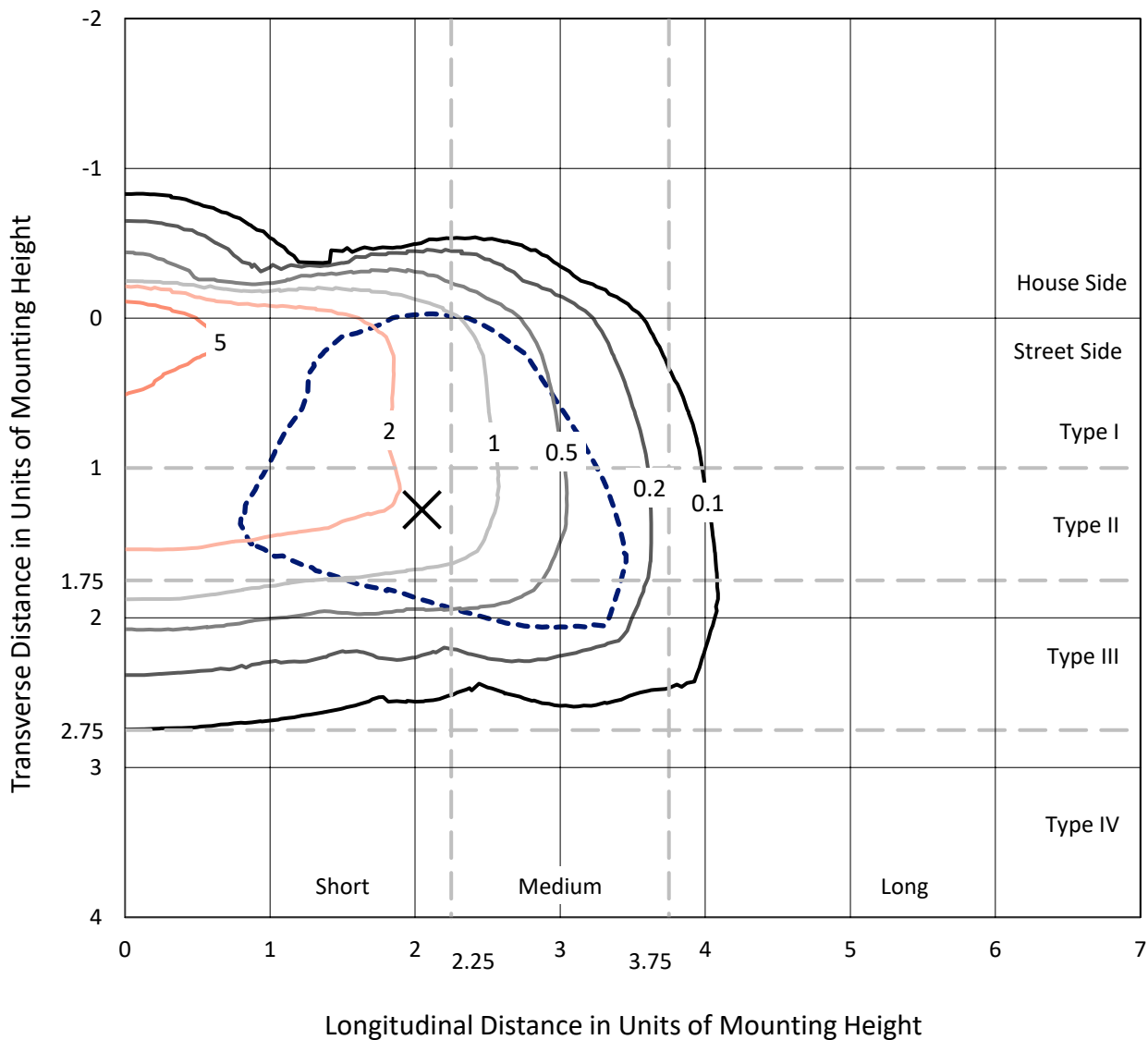
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

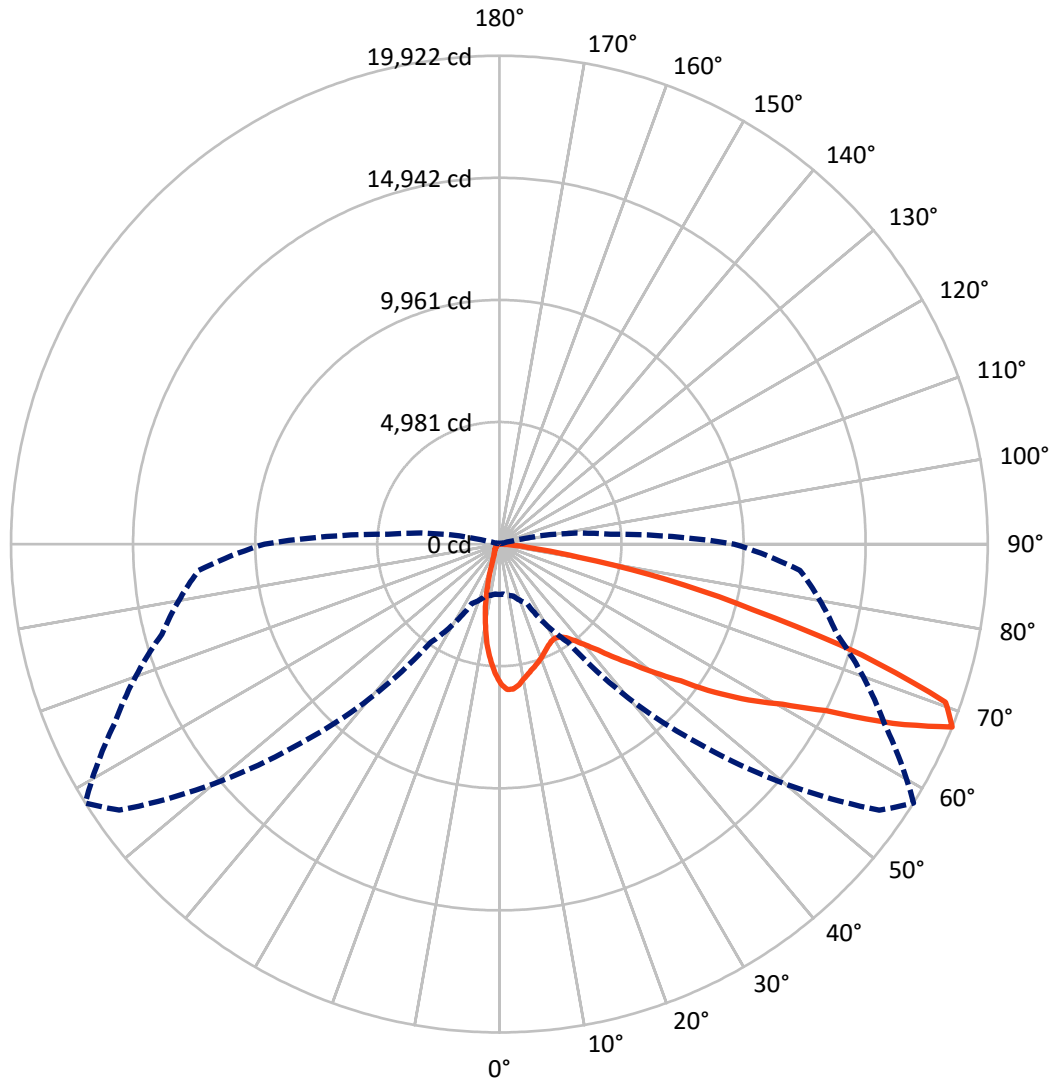
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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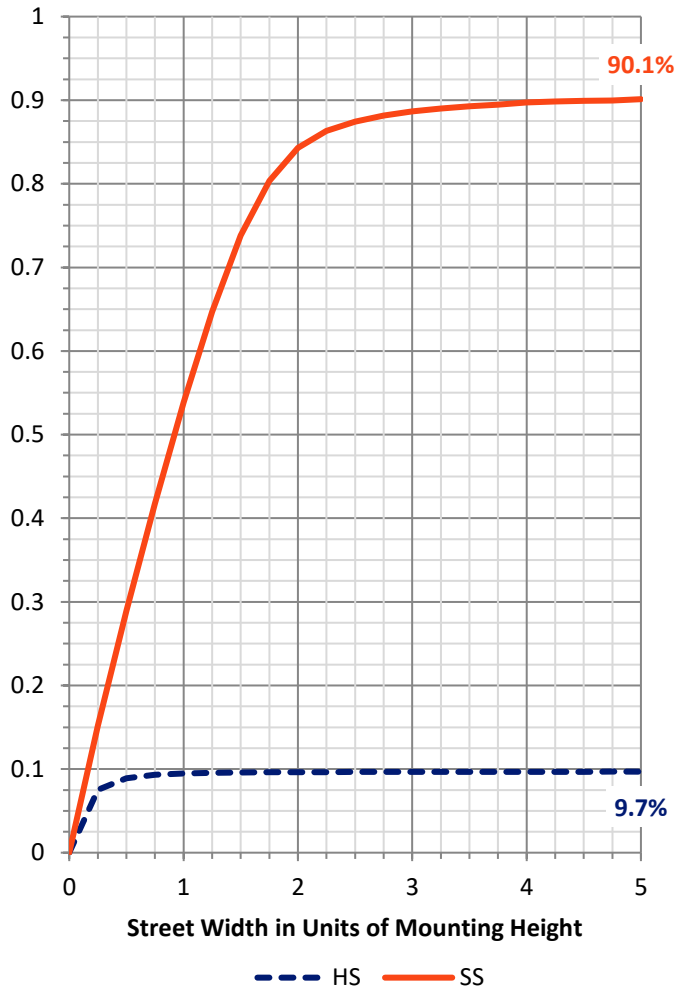
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1923.5	0.0	1923.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	17766.0	0.0	17766.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	19689.5	0.0	19689.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.5	2.3
10°-20°	960.7	4.9
20°-30°	1295.6	6.6
30°-40°	1820.5	9.2
40°-50°	2811.6	14.3
50°-60°	4496.1	22.8
60°-70°	5323.8	27.0
70°-80°	2355.1	12.0
80°-90°	164.6	0.8
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°	19689.5	100.0
0°-180°	19689.5	100.0

Coefficient of Utilization



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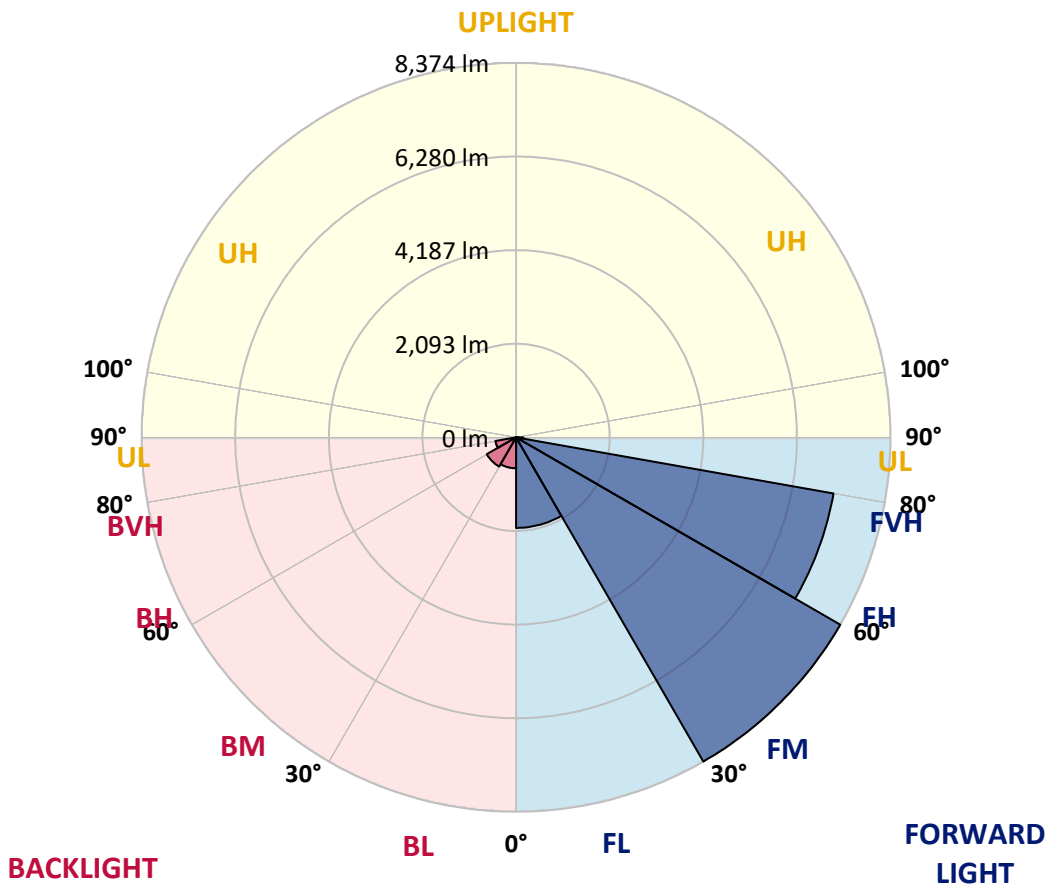
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2025.6	10.3			
FM (30°-60°)	8373.5	42.5			
FH (60°-80°)	7209.3	36.6			G3/7500
FVH (80°-90°)	157.6	0.8			G2/225
BL (0°-30°)	692.2	3.5	B2/1000		
BM (30°-60°)	754.7	3.8	B1/1000		
BH (60°-80°)	469.6	2.4	B1/500		G1/500
BVH (80°-90°)	7.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4
2.5°	5973.9	5984.3	5998.3	6015.7	6012.2	5996.5	5977.4	5933.8	5905.9	5818.8	5712.5
5°	5782.2	5780.5	5815.3	5848.4	5907.7	5939.0	5982.6	5942.5	5928.6	5824.0	5651.5
7.5°	5407.5	5426.7	5466.8	5519.0	5604.4	5696.8	5801.4	5789.2	5831.0	5761.3	5546.9
10°	5039.8	5029.4	5092.1	5170.5	5301.2	5419.7	5571.3	5569.6	5679.4	5672.4	5428.4
12.5°	4717.4	4715.7	4764.5	4853.3	5006.7	5172.3	5377.9	5383.1	5519.0	5574.8	5327.4
15°	4445.6	4449.0	4496.1	4588.5	4747.0	4949.2	5187.9	5231.5	5384.9	5498.1	5228.0
17.5°	4252.1	4253.9	4281.8	4361.9	4517.0	4733.1	5020.6	5079.9	5276.8	5440.6	5147.9
20°	4163.2	4156.3	4161.5	4201.6	4321.8	4518.8	4849.9	4926.5	5177.5	5400.5	5074.7
22.5°	4175.4	4165.0	4140.6	4135.4	4189.4	4339.3	4668.6	4762.7	5069.4	5376.2	5008.4
25°	4283.5	4260.8	4226.0	4173.7	4152.8	4227.7	4510.0	4607.6	4968.4	5377.9	4957.9
27.5°	4449.0	4424.7	4381.1	4311.4	4229.5	4198.1	4402.0	4494.4	4896.9	5418.0	4933.5
30°	4659.9	4640.7	4598.9	4515.3	4405.5	4276.5	4379.3	4456.0	4862.1	5499.9	4944.0
32.5°	4909.1	4895.2	4860.3	4783.6	4658.2	4461.2	4456.0	4515.3	4889.9	5618.4	4984.0
35°	5149.6	5154.8	5156.6	5114.7	4980.6	4741.8	4666.9	4687.8	5005.0	5796.1	5074.7
37.5°	5409.3	5397.1	5459.8	5489.4	5360.5	5106.0	4992.8	4994.5	5224.5	6059.3	5245.4
40°	5606.2	5609.7	5745.6	5867.6	5813.6	5567.8	5405.8	5404.0	5562.6	6420.0	5520.8
42.5°	5790.9	5813.6	6014.0	6223.1	6298.0	6080.2	5963.4	5919.9	6036.6	6908.0	5933.8
45°	5987.8	6020.9	6301.5	6599.5	6796.4	6667.5	6575.1	6592.5	6606.5	7476.1	6489.7
47.5°	6217.9	6238.8	6585.6	7005.6	7373.3	7340.1	7345.4	7324.5	7317.5	8192.3	7225.1
50°	6496.7	6545.5	6944.6	7446.4	7948.3	8167.9	8241.1	8249.8	8136.5	8973.0	7986.7
52.5°	7089.2	7148.5	7490.0	7929.2	8575.7	9037.5	9335.5	9276.3	9102.0	9729.4	8821.4
55°	7788.0	7833.3	8162.7	8617.5	9342.5	9990.8	10698.3	10673.9	10246.9	10525.8	9508.0
57.5°	7854.2	7904.8	8415.4	9112.4	10327.1	11168.8	11912.9	11991.3	11365.7	11090.4	10121.5
60°	7110.1	7212.9	7910.0	8847.6	10703.5	12752.9	13244.3	13260.0	12186.5	11663.7	10870.8
62.5°	5698.5	5747.3	6449.6	7673.0	10123.2	13676.5	15278.0	14946.9	13240.8	12550.7	12057.6
65°	2986.9	3185.6	3797.3	5151.3	8209.7	13354.1	17724.7	17634.1	15136.9	13821.2	12981.2
67.5°	2049.4	2047.6	2192.3	2685.5	4895.2	11498.2	18925.4	19922.3	17329.2	14256.8	12312.0
70°	1559.7	1564.9	1693.9	2014.5	2535.6	7653.8	17608.0	19312.3	17736.9	12944.6	9957.6
72.5°	1035.1	1045.6	1260.0	1627.7	2025.0	3752.0	13683.5	15452.3	14924.3	10396.8	7009.0
75°	618.6	627.4	780.7	1183.3	1800.2	2099.9	8694.2	10682.6	10273.1	7165.9	3757.2
77.5°	254.4	261.4	400.8	737.2	1317.5	1631.1	4808.0	6989.9	6153.4	2849.3	1026.4
80°	106.3	109.8	193.4	515.8	949.8	1022.9	2227.1	3284.9	2521.6	613.4	313.7
82.5°	38.3	40.1	71.4	284.1	590.8	770.3	1124.0	1298.3	711.0	200.4	169.0
85°	1.7	1.7	17.4	95.8	224.8	217.8	643.0	622.1	235.3	83.6	101.1
87.5°	0.0	0.0	1.7	1.7	3.5	8.7	61.0	108.0	50.5	20.9	43.6
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°	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4	5679.4
2.5°	5642.8	5550.4	5449.3	5355.2	5205.4	5116.5	5006.7	4957.9	4888.2	4870.8	4881.2
5°	5527.8	5369.2	5126.9	4907.4	4623.3	4395.0	4165.0	4067.4	3941.9	3858.3	3823.4
7.5°	5365.7	5158.3	4780.2	4381.1	3990.7	3574.2	3257.1	3047.9	2858.0	2753.4	2732.5
10°	5201.9	4931.8	4389.8	3818.2	3213.5	2715.1	2286.4	1969.2	1711.3	1594.5	1503.9
12.5°	5032.8	4696.5	3992.5	3246.6	2544.3	1864.7	1334.9	1026.4	841.7	768.5	780.7
15°	4877.7	4470.0	3598.6	2675.0	1791.5	1125.8	737.2	622.1	578.6	564.6	562.9
17.5°	4729.6	4255.6	3206.5	2119.1	1181.5	690.1	564.6	536.7	524.5	517.6	517.6
20°	4595.4	4050.0	2823.1	1596.3	763.3	547.2	510.6	496.7	486.2	481.0	481.0
22.5°	4470.0	3851.3	2448.5	1129.3	562.9	491.4	468.8	454.8	442.6	435.7	435.7
25°	4356.7	3671.8	2091.2	777.2	484.5	449.6	425.2	409.5	388.6	376.4	376.4
27.5°	4274.8	3511.5	1747.9	566.4	437.4	404.3	376.4	355.5	332.9	318.9	315.4
30°	4226.0	3375.6	1401.1	465.3	393.8	360.7	329.4	303.2	277.1	263.1	261.4
32.5°	4198.1	3250.1	1083.9	406.0	357.2	318.9	284.1	256.2	230.0	214.3	212.6
35°	4208.6	3152.5	812.1	366.0	322.4	282.3	244.0	216.1	193.4	179.5	176.0
37.5°	4299.2	3108.9	609.9	334.6	292.8	250.9	210.9	184.7	163.8	153.4	151.6
40°	4475.2	3117.6	479.2	310.2	268.4	219.6	181.2	156.8	141.2	132.4	130.7
42.5°	4748.8	3190.8	395.6	289.3	242.2	191.7	156.8	137.7	122.0	113.3	111.5
45°	5156.6	3342.4	345.0	264.9	214.3	165.6	135.9	118.5	104.6	94.1	92.4
47.5°	5747.3	3605.6	311.9	242.2	190.0	142.9	116.8	99.3	87.1	78.4	76.7
50°	6376.4	3921.0	284.1	219.6	169.0	123.7	99.3	81.9	71.4	62.7	61.0
52.5°	7047.4	4260.8	263.1	198.7	149.9	106.3	83.6	68.0	57.5	48.8	47.1
55°	7692.2	4602.4	238.7	184.7	127.2	90.6	69.7	55.8	45.3	38.3	38.3
57.5°	8319.5	4916.1	212.6	162.1	104.6	76.7	57.5	45.3	36.6	31.4	29.6
60°	9068.9	5350.0	183.0	137.7	87.1	64.5	47.1	36.6	29.6	24.4	24.4
62.5°	10182.4	5801.4	156.8	115.0	73.2	54.0	38.3	29.6	24.4	20.9	19.2
65°	10546.7	5557.4	132.4	94.1	59.3	43.6	31.4	26.1	20.9	19.2	17.4
67.5°	9574.3	4555.4	109.8	76.7	48.8	36.6	27.9	22.7	19.2	17.4	15.7
70°	7470.8	3232.7	85.4	57.5	40.1	29.6	24.4	20.9	17.4	15.7	15.7
72.5°	5081.6	1911.7	68.0	43.6	33.1	26.1	20.9	19.2	17.4	15.7	13.9
75°	2502.5	679.6	52.3	33.1	26.1	22.7	19.2	17.4	15.7	13.9	13.9
77.5°	674.4	188.2	40.1	26.1	20.9	17.4	17.4	17.4	15.7	12.2	12.2
80°	228.3	78.4	29.6	19.2	17.4	13.9	12.2	15.7	13.9	12.2	10.5
82.5°	125.5	38.3	20.9	15.7	12.2	10.5	10.5	10.5	10.5	8.7	8.7
85°	80.2	20.9	13.9	12.2	12.2	8.7	7.0	7.0	5.2	5.2	5.2
87.5°	36.6	12.2	12.2	10.5	10.5	8.7	5.2	3.5	1.7	1.7	1.7
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)