

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: P637705

Luminaire Tested: GWS-SA4D-735-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637705
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-SA4D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19562.3 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

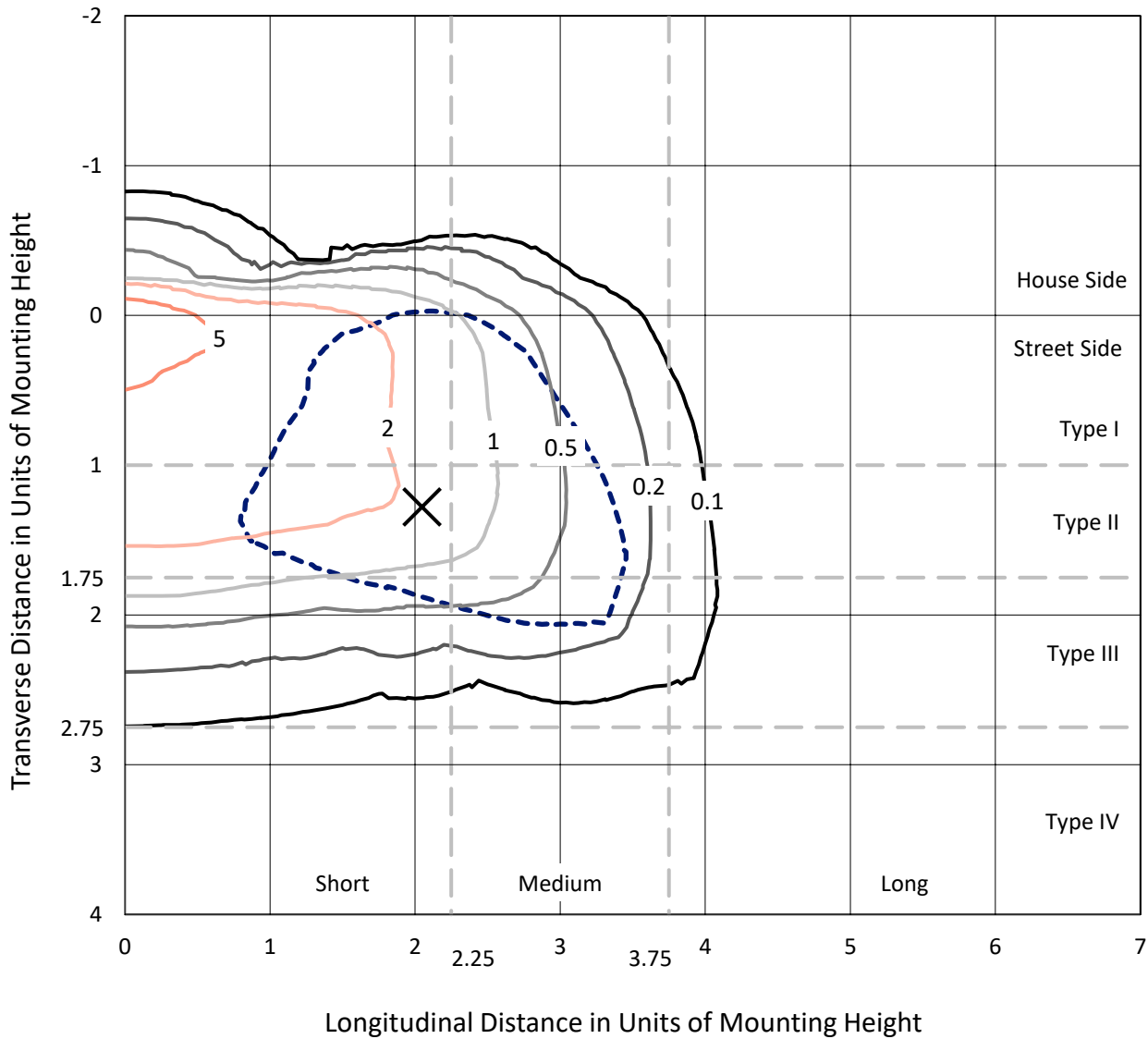
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

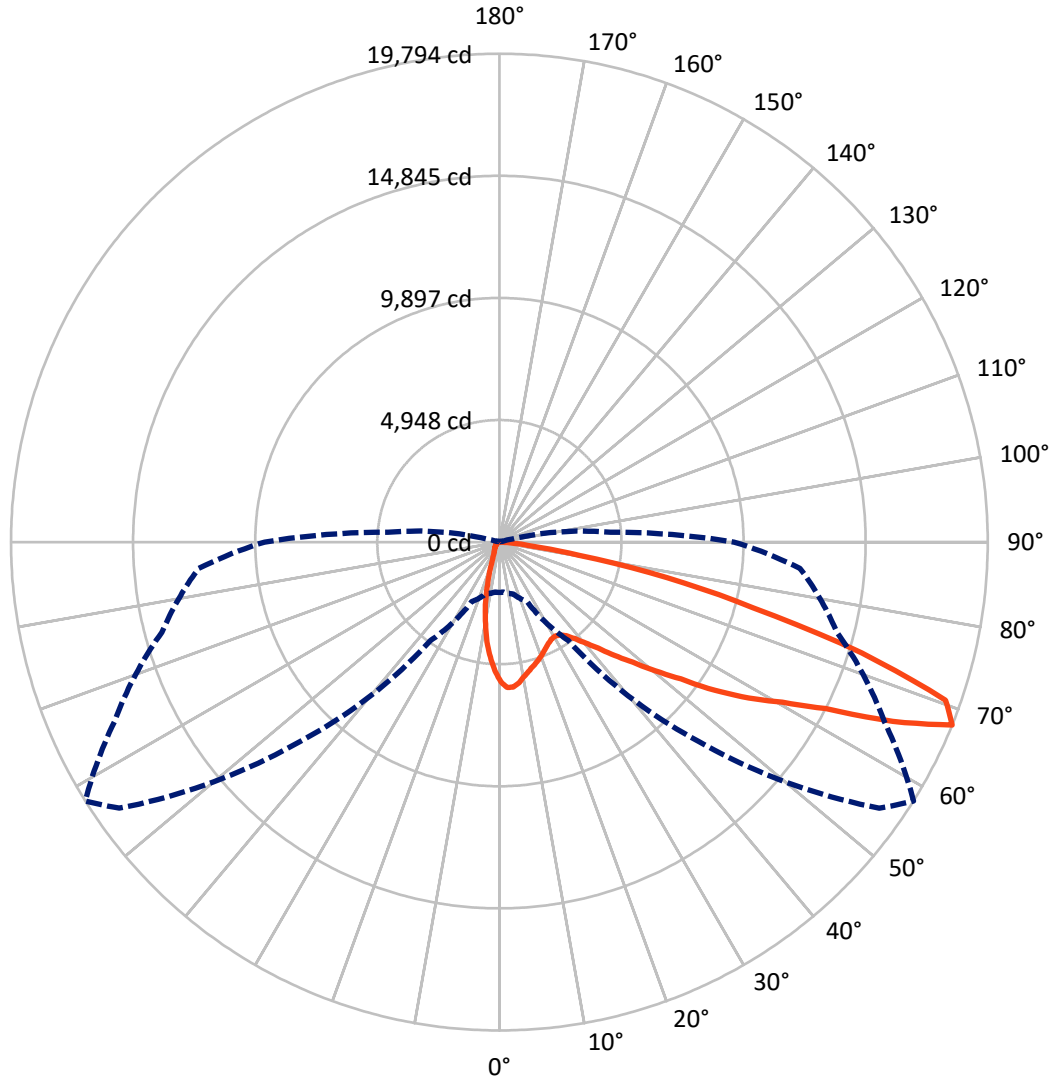
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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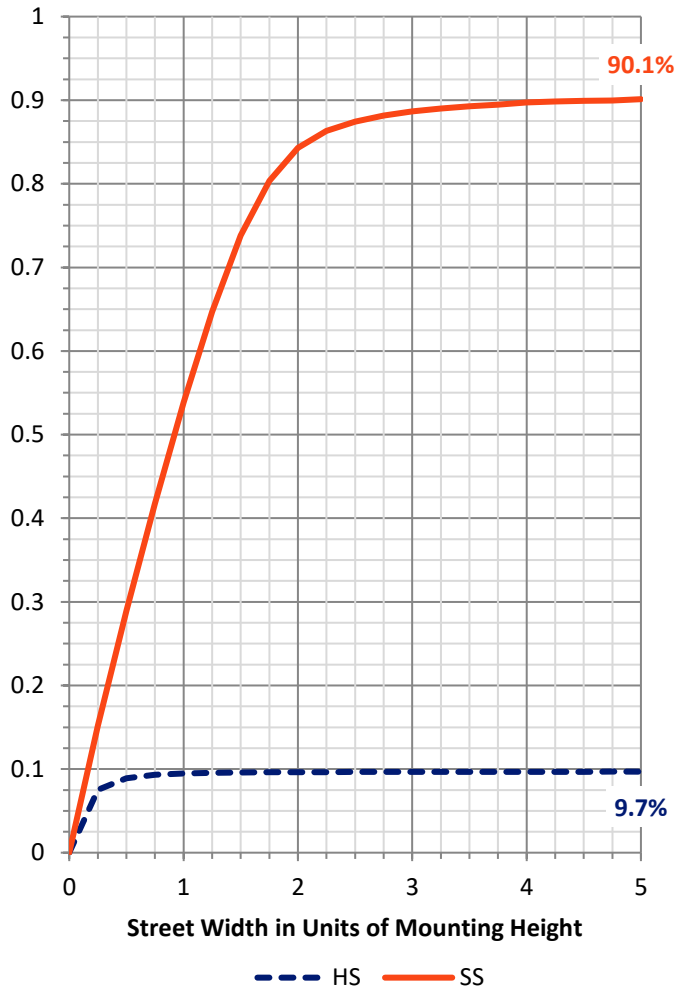
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.1	0.0	1911.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	17651.2	0.0	17651.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	19562.3	0.0	19562.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.5	2.3
10°-20°	954.5	4.9
20°-30°	1287.2	6.6
30°-40°	1808.8	9.2
40°-50°	2793.4	14.3
50°-60°	4467.1	22.8
60°-70°	5289.4	27.0
70°-80°	2339.9	12.0
80°-90°	163.6	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°	19562.3	100.0
0°-180°	19562.3	100.0

Coefficient of Utilization



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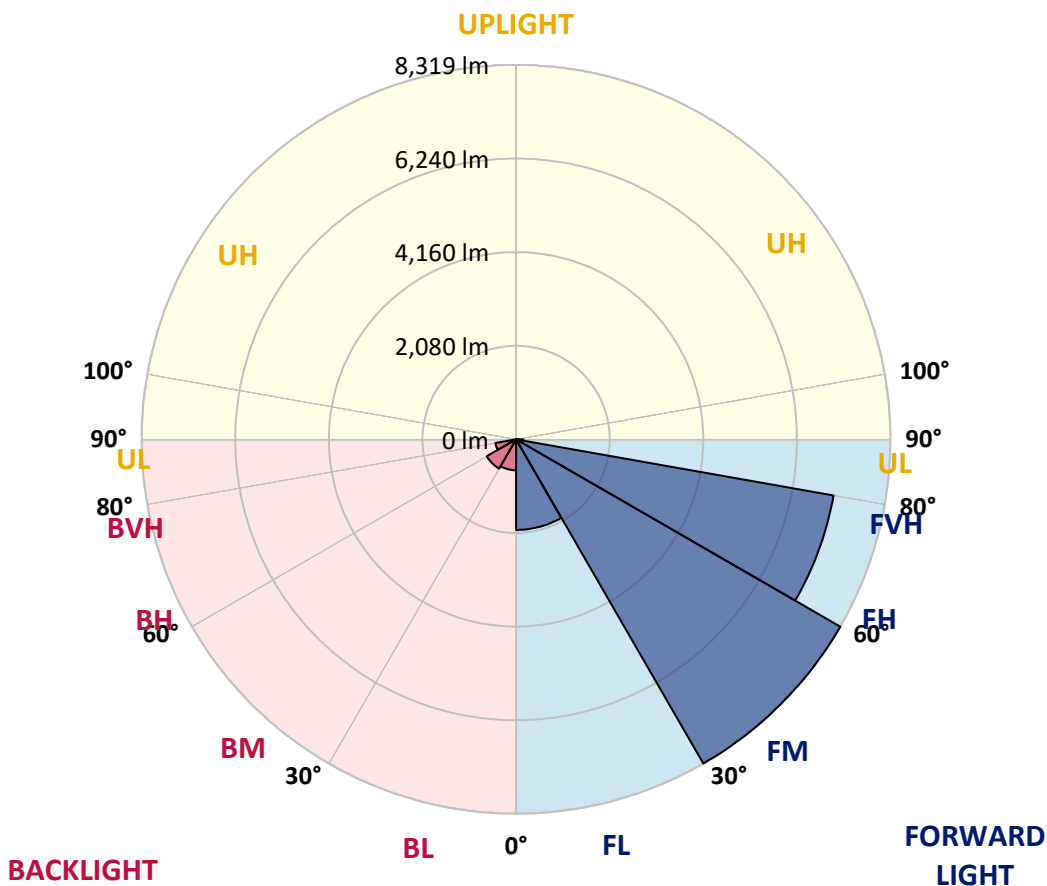
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.5	10.3			
FM (30°-60°)	8319.4	42.5			
FH (60°-80°)	7162.7	36.6			G3/7500
FVH (80°-90°)	156.6	0.8			G2/225
BL (0°-30°)	687.7	3.5	B2/1000		
BM (30°-60°)	749.9	3.8	B1/1000		
BH (60°-80°)	466.6	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°	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7
2.5°	5935.3	5945.7	5959.5	5976.8	5973.4	5957.8	5938.8	5895.5	5867.8	5781.2	5675.6
5°	5744.8	5743.1	5777.7	5810.6	5869.5	5900.7	5944.0	5904.1	5890.3	5786.4	5615.0
7.5°	5372.6	5391.6	5431.5	5483.4	5568.2	5660.0	5763.9	5751.8	5793.3	5724.1	5511.1
10°	5007.3	4996.9	5059.2	5137.1	5267.0	5384.7	5535.3	5533.6	5642.7	5635.8	5393.4
12.5°	4686.9	4685.2	4733.7	4822.0	4974.4	5138.8	5343.2	5348.3	5483.4	5538.8	5292.9
15°	4416.8	4420.3	4467.1	4558.8	4716.4	4917.2	5154.4	5197.7	5350.1	5462.6	5194.2
17.5°	4224.7	4226.4	4254.1	4333.7	4487.8	4702.5	4988.2	5047.1	5242.7	5405.5	5114.6
20°	4136.4	4129.4	4134.6	4174.4	4293.9	4489.6	4818.5	4894.7	5144.0	5365.7	5041.9
22.5°	4148.5	4138.1	4113.8	4108.7	4162.3	4311.2	4638.5	4732.0	5036.7	5341.4	4976.1
25°	4255.8	4233.3	4198.7	4146.7	4126.0	4200.4	4480.9	4577.9	4936.3	5343.2	4925.9
27.5°	4420.3	4396.1	4352.8	4283.5	4202.1	4171.0	4373.6	4465.3	4865.3	5383.0	4901.6
30°	4629.8	4610.8	4569.2	4486.1	4377.0	4248.9	4351.0	4427.2	4830.7	5464.3	4912.0
32.5°	4877.4	4863.5	4828.9	4752.7	4628.1	4432.4	4427.2	4486.1	4858.4	5582.1	4951.9
35°	5116.3	5121.5	5123.3	5081.7	4948.4	4711.2	4636.7	4657.5	4972.6	5758.7	5041.9
37.5°	5374.3	5362.2	5424.5	5454.0	5325.8	5073.0	4960.5	4962.2	5190.8	6020.1	5211.6
40°	5570.0	5573.4	5708.5	5829.7	5776.0	5531.9	5370.9	5369.1	5526.7	6378.5	5485.1
42.5°	5753.5	5776.0	5975.1	6182.9	6257.3	6040.9	5924.9	5881.6	5997.6	6863.3	5895.5
45°	5949.1	5982.0	6260.8	6556.9	6752.5	6624.4	6532.6	6549.9	6563.8	7427.8	6447.8
47.5°	6177.7	6198.5	6543.0	6960.3	7325.6	7292.7	7297.9	7277.1	7270.2	8139.4	7178.5
50°	6454.7	6503.2	6899.7	7398.3	7897.0	8115.1	8187.9	8196.5	8084.0	8915.1	7935.1
52.5°	7043.4	7102.3	7441.6	7877.9	8520.3	8979.1	9275.2	9216.3	9043.2	9666.5	8764.4
55°	7737.7	7782.7	8110.0	8561.9	9282.1	9926.2	10629.2	10604.9	10180.7	10457.8	9446.6
57.5°	7803.5	7853.7	8361.0	9053.6	10260.4	11096.6	11836.0	11913.9	11292.3	11018.7	10056.1
60°	7064.2	7166.3	7858.9	8790.4	10634.4	12670.5	13158.8	13174.3	12107.8	11588.4	10800.6
62.5°	5661.7	5710.2	6408.0	7623.4	10057.8	13588.2	15179.3	14850.4	13155.3	12469.7	11979.7
65°	2967.6	3165.0	3772.8	5118.1	8156.7	13267.8	17610.2	17520.2	15039.1	13731.9	12897.3
67.5°	2036.1	2034.4	2178.1	2668.1	4863.5	11423.9	18803.2	19793.6	17217.2	14164.7	12232.5
70°	1549.6	1554.8	1682.9	2001.5	2519.2	7604.4	17494.2	19187.6	17622.4	12861.0	9893.3
72.5°	1028.5	1038.8	1251.8	1617.1	2011.9	3727.7	13595.1	15352.5	14827.8	10329.6	6963.8
75°	614.7	623.3	775.7	1175.6	1788.6	2086.4	8638.0	10613.6	10206.7	7119.6	3732.9
77.5°	252.8	259.7	398.2	732.4	1309.0	1620.6	4777.0	6944.7	6113.6	2830.9	1019.8
80°	105.6	109.1	192.2	512.5	943.6	1016.3	2212.7	3263.7	2505.4	609.5	311.7
82.5°	38.1	39.8	71.0	282.2	587.0	765.3	1116.8	1289.9	706.4	199.1	167.9
85°	1.7	1.7	17.3	95.2	223.4	216.4	638.9	618.1	233.7	83.1	100.4
87.5°	0.0	0.0	1.7	1.7	3.5	8.7	60.6	107.3	50.2	20.8	43.3
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°	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7	5642.7
2.5°	5606.3	5514.6	5414.1	5320.6	5171.7	5083.4	4974.4	4925.9	4856.6	4839.3	4849.7
5°	5492.1	5334.5	5093.8	4875.7	4593.4	4366.6	4138.1	4041.1	3916.5	3833.4	3798.7
7.5°	5331.0	5125.0	4749.3	4352.8	3964.9	3551.1	3236.0	3028.2	2839.5	2735.6	2714.9
10°	5168.3	4899.9	4361.4	3793.5	3192.7	2697.5	2271.6	1956.5	1700.3	1584.2	1494.2
12.5°	5000.3	4666.2	3966.7	3225.6	2527.9	1852.6	1326.3	1019.8	836.3	763.6	775.7
15°	4846.2	4441.1	3575.4	2657.7	1779.9	1118.5	732.4	618.1	574.8	561.0	559.2
17.5°	4699.1	4228.1	3185.8	2105.4	1173.9	685.6	561.0	533.3	521.2	514.2	514.2
20°	4565.7	4023.8	2804.9	1586.0	758.4	543.7	507.3	493.5	483.1	477.9	477.9
22.5°	4441.1	3826.4	2432.6	1122.0	559.2	488.3	465.8	451.9	439.8	432.9	432.9
25°	4328.5	3648.1	2077.7	772.2	481.3	446.7	422.5	406.9	386.1	374.0	374.0
27.5°	4247.2	3488.8	1736.6	562.7	434.6	401.7	374.0	353.2	330.7	316.8	313.4
30°	4198.7	3353.8	1392.1	462.3	391.3	358.4	327.2	301.3	275.3	261.4	259.7
32.5°	4171.0	3229.1	1076.9	403.4	354.9	316.8	282.2	254.5	228.5	213.0	211.2
35°	4181.4	3132.1	806.8	363.6	320.3	280.5	242.4	214.7	192.2	178.3	174.9
37.5°	4271.4	3088.8	606.0	332.4	290.9	249.3	209.5	183.5	162.8	152.4	150.6
40°	4446.3	3097.5	476.1	308.2	266.6	218.2	180.1	155.8	140.2	131.6	129.9
42.5°	4718.1	3170.2	393.0	287.4	240.7	190.5	155.8	136.8	121.2	112.5	110.8
45°	5123.3	3320.9	342.8	263.2	213.0	164.5	135.1	117.7	103.9	93.5	91.8
47.5°	5710.2	3582.3	309.9	240.7	188.7	142.0	116.0	98.7	86.6	77.9	76.2
50°	6335.3	3895.7	282.2	218.2	167.9	122.9	98.7	81.4	71.0	62.3	60.6
52.5°	7001.8	4233.3	261.4	197.4	148.9	105.6	83.1	67.5	57.1	48.5	46.7
55°	7642.5	4572.7	237.2	183.5	126.4	90.0	69.3	55.4	45.0	38.1	38.1
57.5°	8265.8	4884.3	211.2	161.0	103.9	76.2	57.1	45.0	36.4	31.2	29.4
60°	9010.3	5315.4	181.8	136.8	86.6	64.1	46.7	36.4	29.4	24.2	24.2
62.5°	10116.7	5763.9	155.8	114.3	72.7	53.7	38.1	29.4	24.2	20.8	19.0
65°	10478.5	5521.5	131.6	93.5	58.9	43.3	31.2	26.0	20.8	19.0	17.3
67.5°	9512.4	4525.9	109.1	76.2	48.5	36.4	27.7	22.5	19.0	17.3	15.6
70°	7422.6	3211.8	84.8	57.1	39.8	29.4	24.2	20.8	17.3	15.6	15.6
72.5°	5048.8	1899.4	67.5	43.3	32.9	26.0	20.8	19.0	17.3	15.6	13.9
75°	2486.3	675.3	51.9	32.9	26.0	22.5	19.0	17.3	15.6	13.9	13.9
77.5°	670.1	187.0	39.8	26.0	20.8	17.3	17.3	17.3	15.6	12.1	12.1
80°	226.8	77.9	29.4	19.0	17.3	13.9	12.1	15.6	13.9	12.1	10.4
82.5°	124.7	38.1	20.8	15.6	12.1	10.4	10.4	10.4	10.4	8.7	8.7
85°	79.6	20.8	13.9	12.1	12.1	8.7	6.9	6.9	5.2	5.2	5.2
87.5°	36.4	12.1	12.1	10.4	10.4	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)