

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: P637870

Luminaire Tested: GWS-SA4D-760-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637870
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20010.6 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

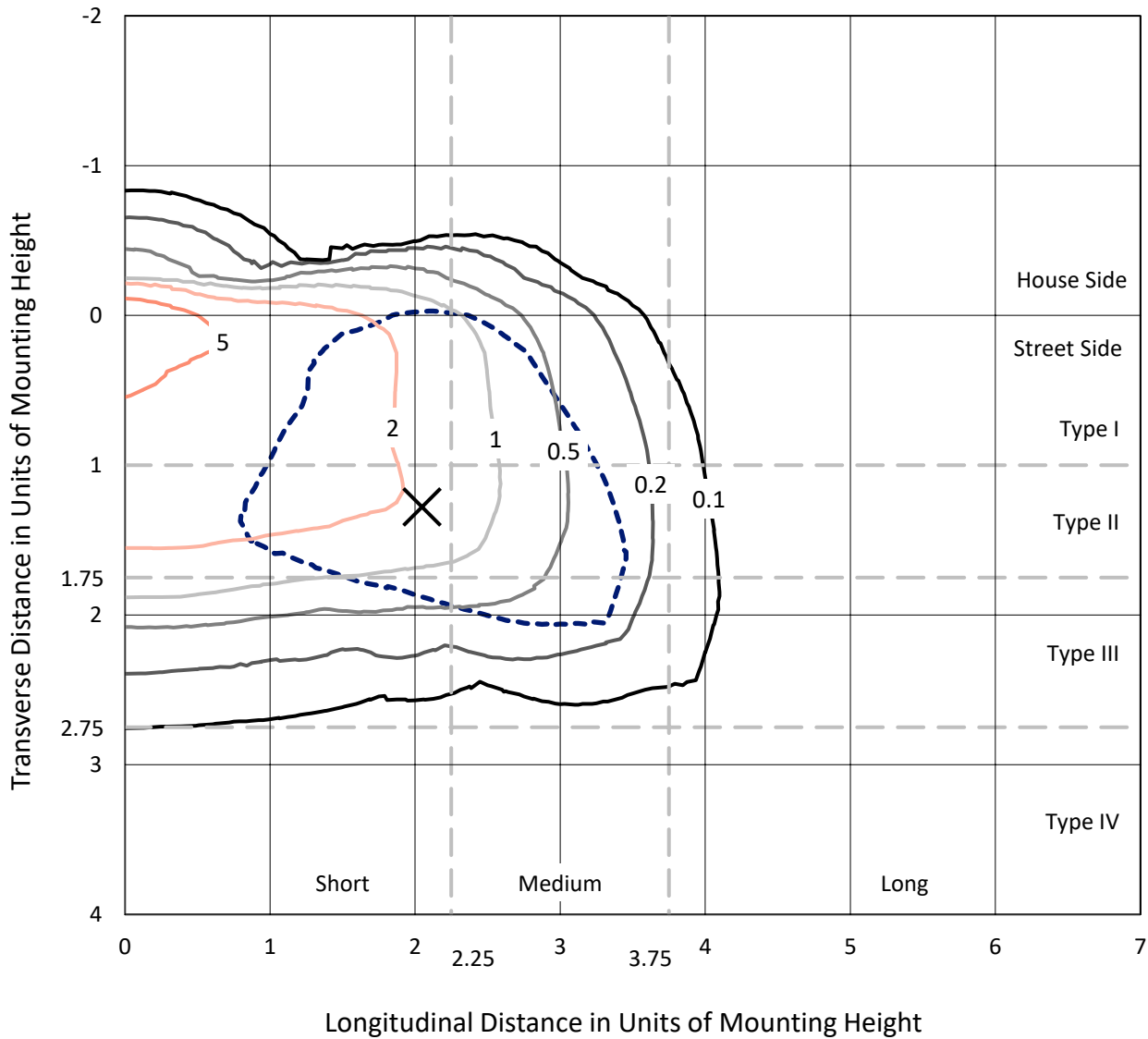
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

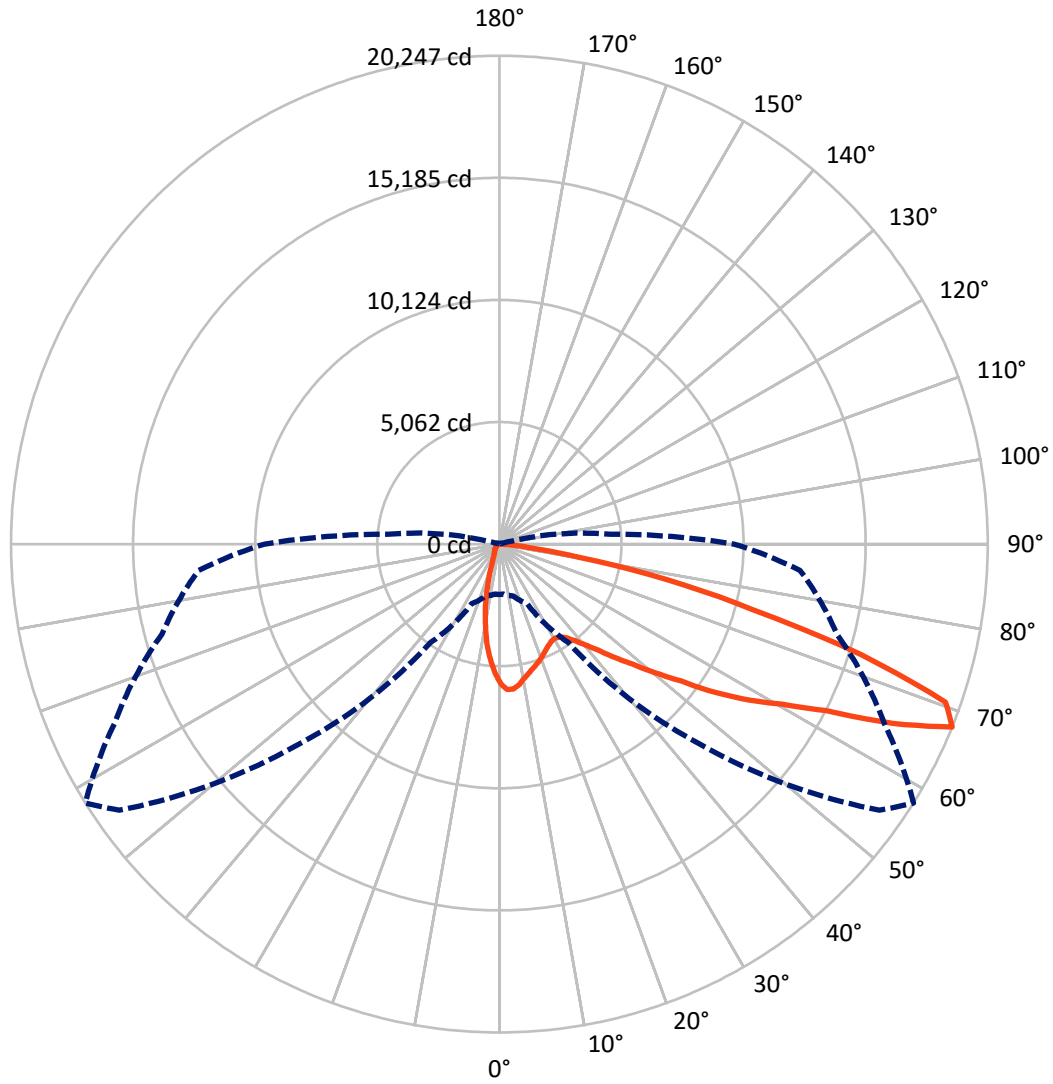
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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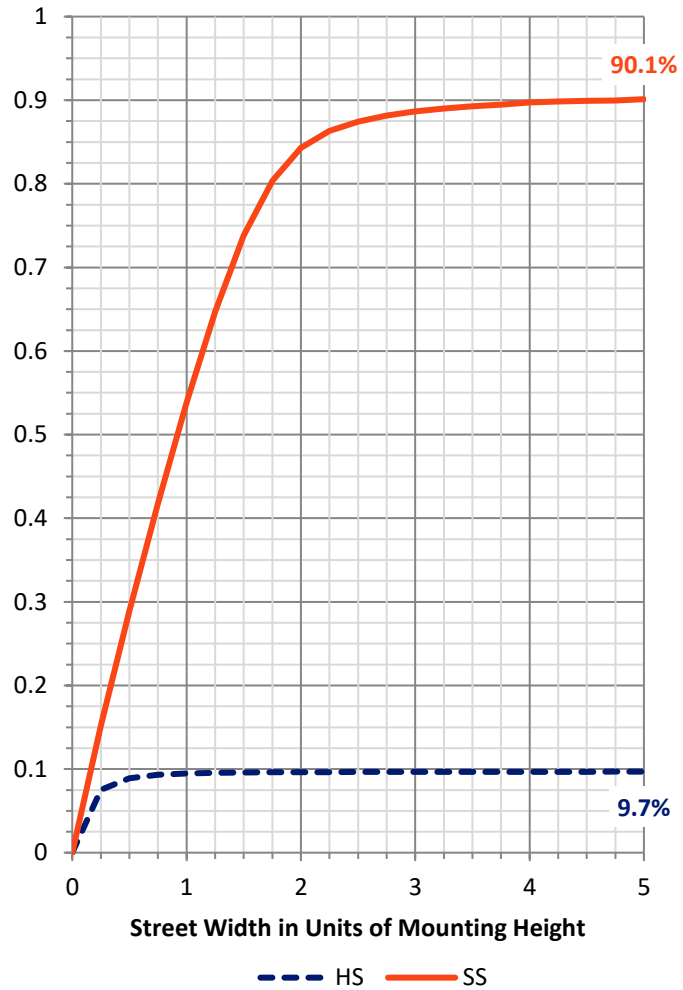
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1954.9	0.0	1954.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	18055.7	0.0	18055.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	20010.6	0.0	20010.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.0	2.3
10°-20°	976.4	4.9
20°-30°	1316.7	6.6
30°-40°	1850.2	9.2
40°-50°	2857.5	14.3
50°-60°	4569.5	22.8
60°-70°	5410.6	27.0
70°-80°	2393.5	12.0
80°-90°	167.3	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°	20010.6	100.0
0°-180°	20010.6	100.0

Coefficient of Utilization



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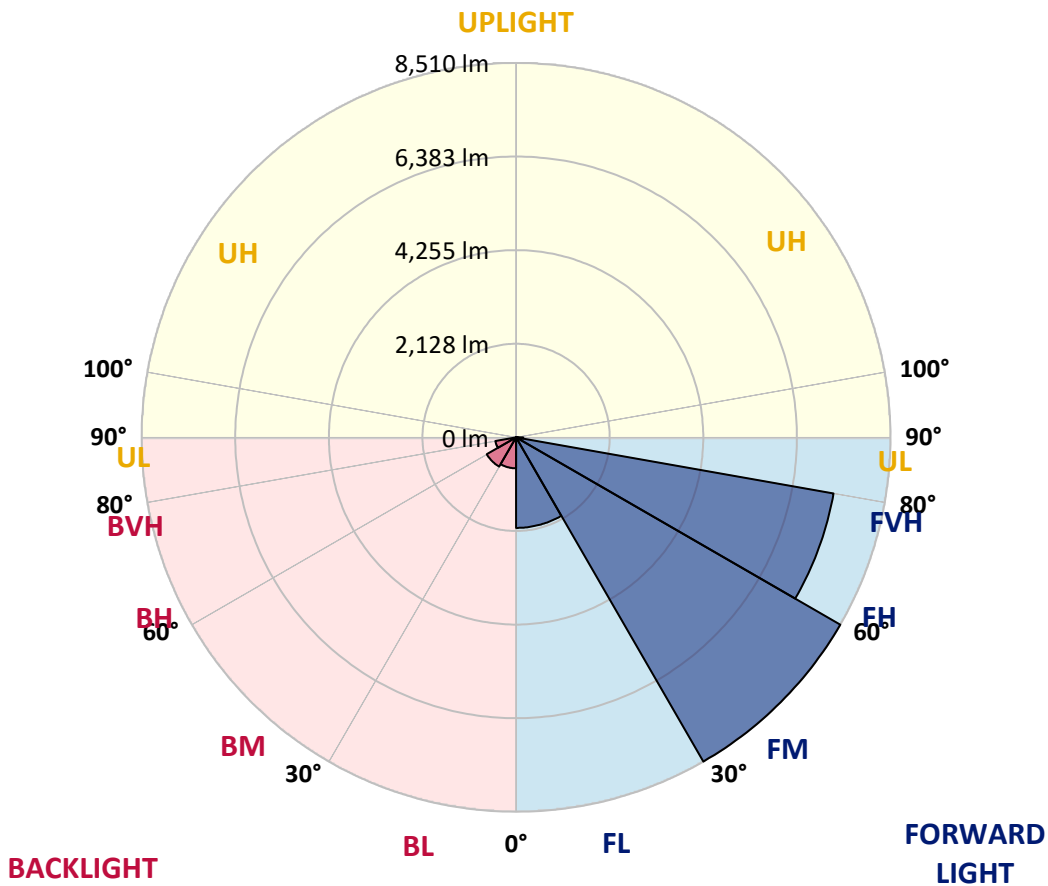
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.6	10.3			
FM (30°-60°)	8510.1	42.5			
FH (60°-80°)	7326.8	36.6			G3/7500
FVH (80°-90°)	160.2	0.8			G2/225
BL (0°-30°)	703.5	3.5	B2/1000		
BM (30°-60°)	767.0	3.8	B1/1000		
BH (60°-80°)	477.3	2.4	B1/500		G1/500
BVH (80°-90°)	7.1	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0
2.5°	6071.3	6081.9	6096.1	6113.8	6110.3	6094.3	6074.9	6030.6	6002.2	5913.7	5805.6
5°	5876.5	5874.7	5910.1	5943.8	6004.0	6035.9	6080.2	6039.4	6025.3	5919.0	5743.7
7.5°	5495.7	5515.2	5555.9	5609.1	5695.8	5789.7	5896.0	5883.6	5926.1	5855.2	5637.4
10°	5122.0	5111.4	5175.1	5254.8	5387.7	5508.1	5662.2	5660.4	5772.0	5764.9	5517.0
12.5°	4794.4	4792.6	4842.2	4932.5	5088.4	5256.6	5465.6	5470.9	5609.1	5665.7	5414.2
15°	4518.1	4521.6	4569.4	4663.3	4824.5	5029.9	5272.5	5316.8	5472.7	5587.8	5313.3
17.5°	4321.5	4323.2	4351.6	4433.0	4590.7	4810.3	5102.5	5162.7	5362.9	5529.4	5231.8
20°	4231.1	4224.1	4229.4	4270.1	4392.3	4592.4	4929.0	5006.9	5261.9	5488.6	5157.4
22.5°	4243.5	4232.9	4208.1	4202.8	4257.7	4410.0	4744.8	4840.4	5152.1	5463.8	5090.1
25°	4353.3	4330.3	4294.9	4241.8	4220.5	4296.7	4583.6	4682.8	5049.4	5465.6	5038.8
27.5°	4521.6	4496.8	4452.5	4381.7	4298.4	4266.6	4473.8	4567.7	4976.8	5506.3	5014.0
30°	4735.9	4716.4	4673.9	4588.9	4477.3	4346.3	4450.8	4528.7	4941.4	5589.6	5024.6
32.5°	4989.2	4975.0	4939.6	4861.7	4734.1	4534.0	4528.7	4588.9	4969.7	5710.0	5065.3
35°	5233.6	5238.9	5240.7	5198.2	5061.8	4819.1	4743.0	4764.2	5086.6	5890.7	5157.4
37.5°	5497.5	5485.1	5548.8	5578.9	5447.9	5189.3	5074.2	5076.0	5309.7	6158.1	5331.0
40°	5697.6	5701.2	5839.3	5963.3	5908.4	5658.6	5493.9	5492.2	5653.3	6524.7	5610.8
42.5°	5885.3	5908.4	6112.0	6324.6	6400.7	6179.3	6060.7	6016.4	6135.1	7020.6	6030.6
45°	6085.5	6119.1	6404.3	6707.1	6907.3	6776.2	6682.3	6700.0	6714.2	7598.0	6595.6
47.5°	6319.3	6340.5	6693.0	7119.8	7493.5	7459.8	7465.2	7443.9	7436.8	8325.9	7343.0
50°	6602.6	6652.2	7057.8	7567.9	8078.0	8301.1	8375.5	8384.4	8269.2	9119.4	8116.9
52.5°	7204.8	7265.0	7612.2	8058.5	8715.6	9184.9	9487.8	9427.5	9250.4	9888.0	8965.3
55°	7915.0	7961.1	8295.8	8758.1	9494.8	10153.7	10872.7	10848.0	10414.0	10697.4	9663.1
57.5°	7982.3	8033.7	8552.6	9261.1	10495.5	11350.9	12107.2	12186.9	11551.1	11271.2	10286.5
60°	7226.1	7330.6	8039.0	8991.8	10878.1	12960.9	13460.3	13476.3	12385.3	11853.9	11048.1
62.5°	5791.5	5841.1	6554.8	7798.1	10288.3	13899.5	15527.2	15190.7	13456.8	12755.4	12254.2
65°	3035.7	3237.6	3859.2	5235.4	8343.6	13571.9	18013.8	17921.7	15383.7	14046.5	13192.9
67.5°	2082.8	2081.0	2228.0	2729.3	4975.0	11685.7	19234.1	20247.1	17611.8	14489.3	12512.8
70°	1585.1	1590.4	1721.5	2047.4	2576.9	7778.6	17895.1	19627.3	18026.2	13155.7	10120.0
72.5°	1052.0	1062.7	1280.5	1654.2	2058.0	3813.2	13906.6	15704.3	15167.7	10566.3	7123.3
75°	628.7	637.6	793.5	1202.6	1829.5	2134.2	8836.0	10856.8	10440.6	7282.7	3818.5
77.5°	258.6	265.7	407.4	749.2	1338.9	1657.7	4886.4	7103.9	6253.7	2895.7	1043.2
80°	108.0	111.6	196.6	524.2	965.2	1039.6	2263.5	3338.5	2562.8	623.4	318.8
82.5°	39.0	40.7	72.6	288.7	600.4	782.8	1142.4	1319.5	722.6	203.7	171.8
85°	1.8	1.8	17.7	97.4	228.5	221.4	653.5	632.3	239.1	85.0	102.7
87.5°	0.0	0.0	1.8	1.8	3.5	8.9	62.0	109.8	51.4	21.3	44.3
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°	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0	5772.0
2.5°	5734.8	5640.9	5538.2	5442.6	5290.3	5199.9	5088.4	5038.8	4967.9	4950.2	4960.8
5°	5617.9	5456.7	5210.6	4987.4	4698.7	4466.7	4232.9	4133.7	4006.2	3921.2	3885.8
7.5°	5453.2	5242.4	4858.1	4452.5	4055.8	3632.5	3310.2	3097.6	2904.6	2798.3	2777.1
10°	5286.7	5012.2	4461.4	3880.5	3265.9	2759.4	2323.7	2001.3	1739.2	1620.6	1528.5
12.5°	5114.9	4773.1	4057.6	3299.5	2585.8	1895.1	1356.7	1043.2	855.4	781.1	793.5
15°	4957.3	4542.9	3657.3	2718.6	1820.7	1144.1	749.2	632.3	588.0	573.8	572.1
17.5°	4806.7	4325.0	3258.8	2153.7	1200.8	701.4	573.8	545.5	533.1	526.0	526.0
20°	4670.4	4116.0	2869.2	1622.3	775.7	556.1	518.9	504.8	494.1	488.8	488.8
22.5°	4542.9	3914.1	2488.4	1147.7	572.1	499.4	476.4	462.3	449.9	442.8	442.8
25°	4427.7	3731.7	2125.3	789.9	492.4	456.9	432.1	416.2	395.0	382.6	382.6
27.5°	4344.5	3568.8	1776.4	575.6	444.5	410.9	382.6	361.3	338.3	324.1	320.6
30°	4294.9	3430.6	1424.0	472.9	400.3	366.6	334.7	308.2	281.6	267.4	265.7
32.5°	4266.6	3303.1	1101.6	412.7	363.1	324.1	288.7	260.4	233.8	217.8	216.1
35°	4277.2	3203.9	825.3	371.9	327.7	286.9	248.0	219.6	196.6	182.4	178.9
37.5°	4369.3	3159.6	619.9	340.1	297.5	255.0	214.3	187.7	166.5	155.9	154.1
40°	4548.2	3168.5	487.1	315.3	272.7	223.2	184.2	159.4	143.5	134.6	132.8
42.5°	4826.2	3242.9	402.0	294.0	246.2	194.8	159.4	139.9	124.0	115.1	113.4
45°	5240.7	3397.0	350.7	269.2	217.8	168.3	138.1	120.4	106.3	95.6	93.9
47.5°	5841.1	3664.4	317.0	246.2	193.0	145.2	118.7	101.0	88.6	79.7	77.9
50°	6480.4	3985.0	288.7	223.2	171.8	125.7	101.0	83.2	72.6	63.8	62.0
52.5°	7162.3	4330.3	267.4	201.9	152.3	108.0	85.0	69.1	58.4	49.6	47.8
55°	7817.6	4677.5	242.6	187.7	129.3	92.1	70.8	56.7	46.0	39.0	39.0
57.5°	8455.2	4996.3	216.1	164.7	106.3	77.9	58.4	46.0	37.2	31.9	30.1
60°	9216.8	5437.3	186.0	139.9	88.6	65.5	47.8	37.2	30.1	24.8	24.8
62.5°	10348.5	5896.0	159.4	116.9	74.4	54.9	39.0	30.1	24.8	21.3	19.5
65°	10718.7	5648.0	134.6	95.6	60.2	44.3	31.9	26.6	21.3	19.5	17.7
67.5°	9730.4	4629.6	111.6	77.9	49.6	37.2	28.3	23.0	19.5	17.7	15.9
70°	7592.7	3285.4	86.8	58.4	40.7	30.1	24.8	21.3	17.7	15.9	15.9
72.5°	5164.5	1942.9	69.1	44.3	33.7	26.6	21.3	19.5	17.7	15.9	14.2
75°	2543.3	690.7	53.1	33.7	26.6	23.0	19.5	17.7	15.9	14.2	14.2
77.5°	685.4	191.3	40.7	26.6	21.3	17.7	17.7	17.7	15.9	12.4	12.4
80°	232.0	79.7	30.1	19.5	17.7	14.2	12.4	15.9	14.2	12.4	10.6
82.5°	127.5	39.0	21.3	15.9	12.4	10.6	10.6	10.6	10.6	8.9	8.9
85°	81.5	21.3	14.2	12.4	12.4	8.9	7.1	7.1	5.3	5.3	5.3
87.5°	37.2	12.4	12.4	10.6	10.6	8.9	5.3	3.5	1.8	1.8	1.8
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)