

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: P643165

Luminaire Tested: GWS-SA6E-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33071.7 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

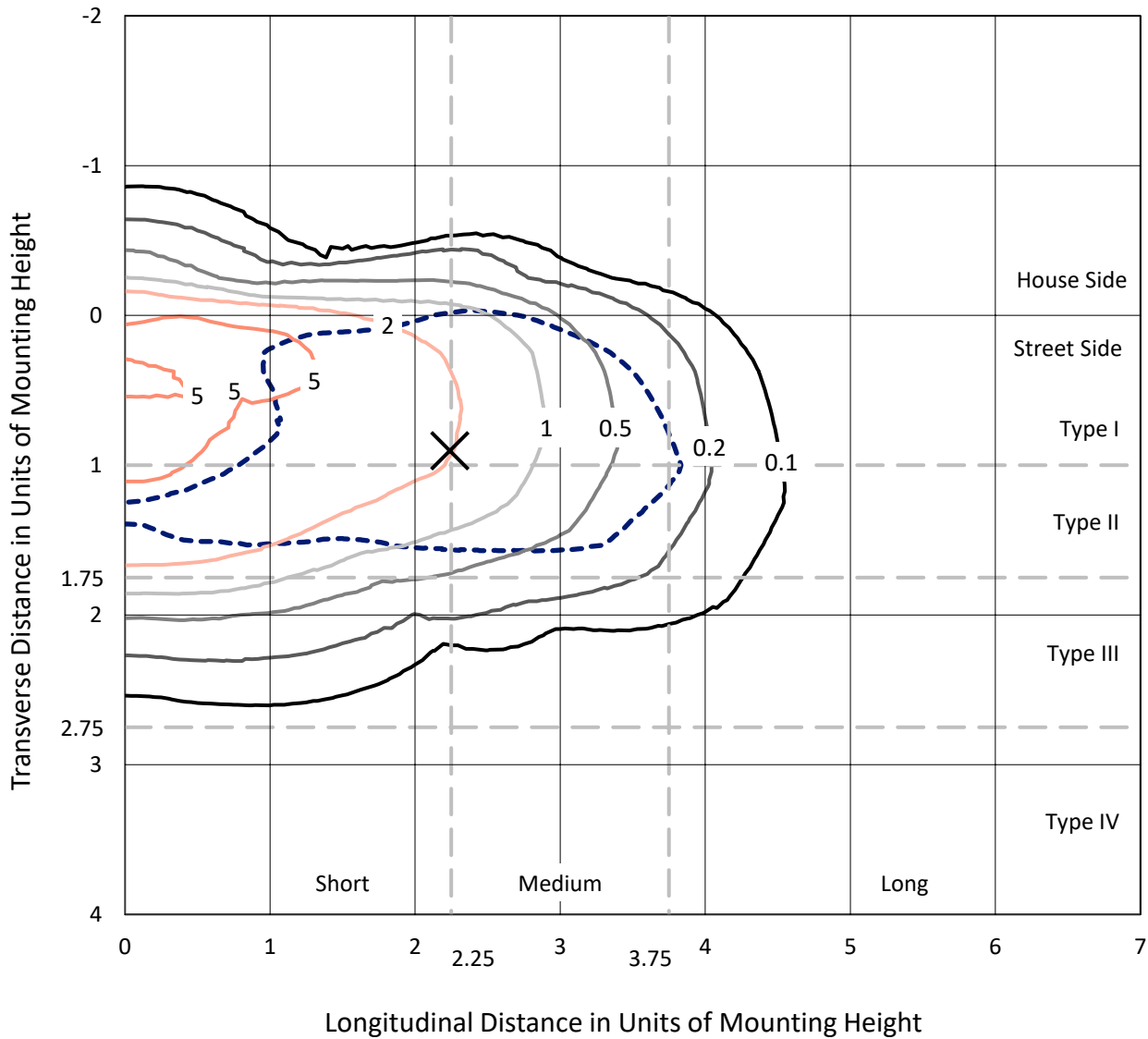
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

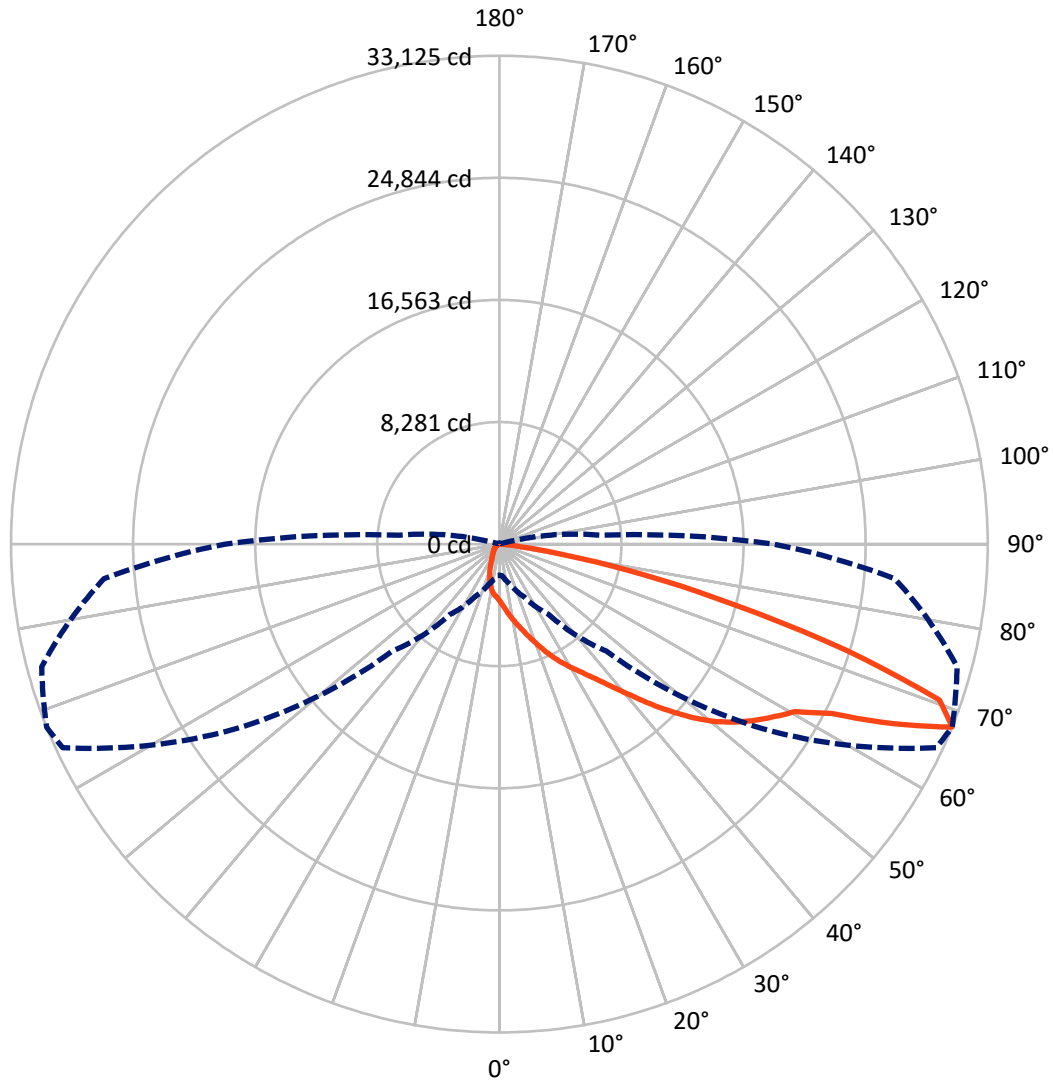
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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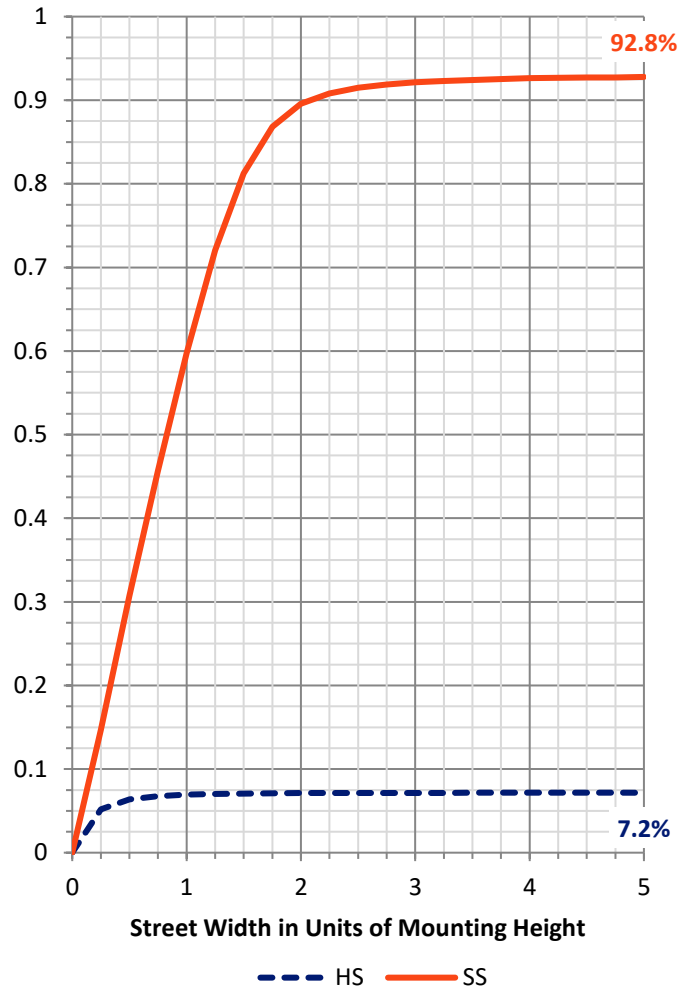
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2388.2	0.0	2388.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	30683.5	0.0	30683.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	33071.7	0.0	33071.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.4	1.1
10°-20°	1077.9	3.3
20°-30°	1852.4	5.6
30°-40°	3220.7	9.7
40°-50°	5619.8	17.0
50°-60°	8476.1	25.6
60°-70°	8499.3	25.7
70°-80°	3749.9	11.3
80°-90°	200.3	0.6
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°	33071.7	100.0
0°-180°	33071.7	100.0

Coefficient of Utilization



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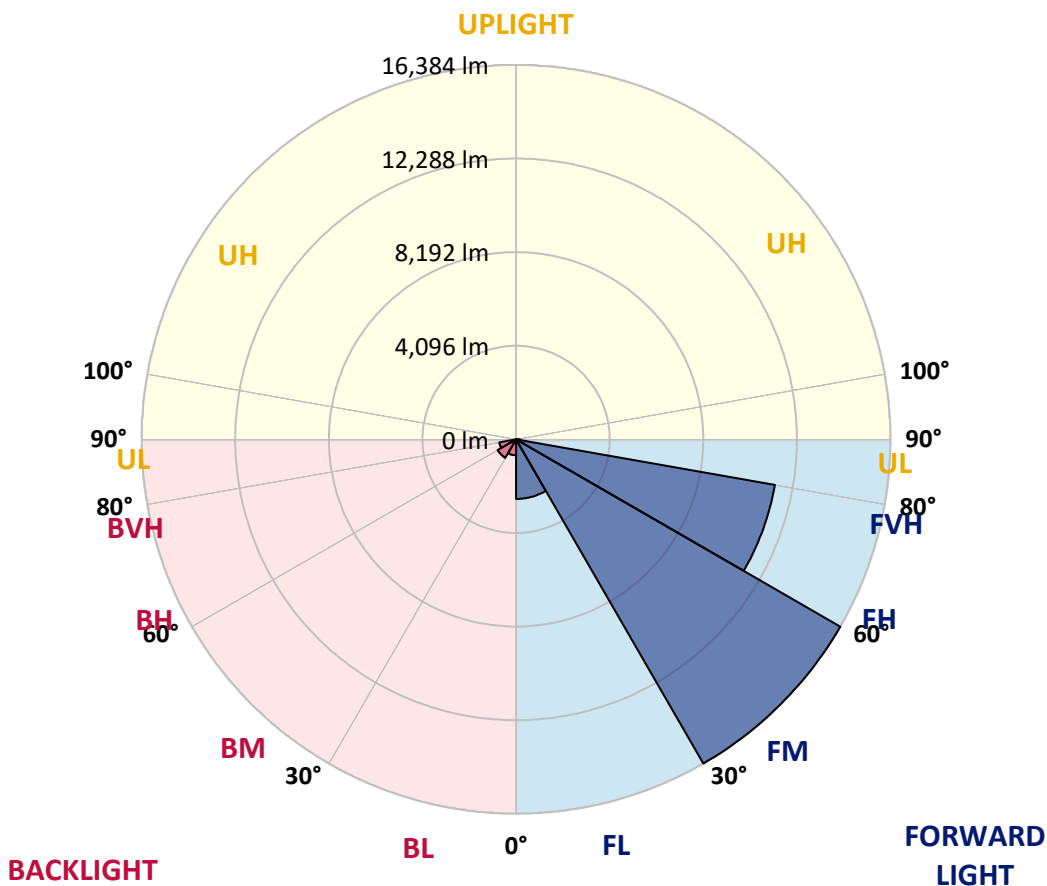
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2607.0	7.9			
FM (30°-60°)	16383.6	49.5			
FH (60°-80°)	11503.8	34.8			G4/12000
FVH (80°-90°)	189.0	0.6			G2/225
BL (0°-30°)	698.7	2.1	B2/1000		
BM (30°-60°)	932.9	2.8	B1/1000		
BH (60°-80°)	745.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	11.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7
2.5°	4481.7	4510.2	4481.7	4488.0	4405.8	4367.8	4285.5	4171.5	4143.1	4070.3	3959.5
5°	5029.3	5054.6	5026.1	5019.8	4924.8	4855.2	4719.1	4522.9	4465.9	4323.5	4105.1
7.5°	5326.8	5342.6	5352.1	5367.9	5333.1	5276.1	5152.7	4909.0	4848.9	4617.8	4310.8
10°	5358.4	5371.1	5418.6	5513.5	5583.2	5618.0	5548.3	5323.6	5228.7	5003.9	4564.0
12.5°	5269.8	5288.8	5364.8	5523.0	5716.1	5893.3	5937.6	5741.4	5656.0	5367.9	4861.5
15°	5152.7	5168.5	5273.0	5488.2	5779.4	6105.4	6289.0	6203.5	6108.6	5807.9	5190.7
17.5°	4972.3	4994.5	5140.0	5431.2	5807.9	6273.1	6668.8	6697.3	6630.8	6304.8	5554.7
20°	4871.0	4886.8	5016.6	5317.3	5788.9	6396.6	7023.3	7292.3	7219.5	6877.7	5972.5
22.5°	4956.5	4969.1	5054.6	5288.8	5725.6	6466.2	7352.4	7887.3	7846.2	7491.7	6412.4
25°	5405.9	5447.1	5396.4	5437.6	5754.1	6504.2	7618.3	8482.3	8491.8	8134.2	6868.2
27.5°	6317.4	6263.6	6143.4	5937.6	5975.6	6605.5	7846.2	9042.6	9124.8	8760.9	7273.3
30°	7244.8	7213.2	7140.4	6820.7	6554.8	6830.2	8039.2	9615.4	9745.2	9378.1	7634.1
32.5°	8286.1	8317.8	8188.0	7805.0	7352.4	7286.0	8238.6	10159.8	10403.5	10077.5	8058.2
35°	9530.0	9539.5	9283.1	8859.0	8346.2	8039.2	8596.3	10761.2	11210.6	10970.1	8624.8
37.5°	10742.2	10799.2	10659.9	9992.1	9536.3	8976.1	9188.2	11533.5	12166.5	12071.5	9336.9
40°	11815.1	11903.8	11859.5	11213.8	10615.6	10144.0	10106.0	12438.7	13321.7	13429.3	10276.9
42.5°	12669.7	12726.7	12761.5	12302.6	11774.0	11508.1	11239.1	13489.5	14685.8	15125.8	11429.0
45°	13571.7	13590.7	13663.5	13353.4	12891.3	12913.4	12577.9	14765.0	16122.8	17005.8	12752.0
47.5°	14720.7	14784.0	14749.1	14423.1	14005.4	14255.4	13961.1	16078.5	17540.7	19012.5	14106.6
50°	16119.6	16186.1	16154.4	15774.6	15309.4	15413.8	15230.2	17354.0	18908.0	20905.2	15233.4
52.5°	16841.2	16895.1	17287.5	17458.4	17214.7	16550.1	16312.7	18756.1	20063.3	22462.4	16268.4
55°	16493.1	16531.1	17385.6	18107.3	18999.8	18335.2	17401.5	19838.6	21082.4	23677.8	17037.5
57.5°	15049.8	15255.6	16417.1	17638.8	19515.7	20098.1	19167.6	21016.0	22063.6	24522.8	17793.9
60°	12090.5	12081.0	13745.8	15939.2	18509.2	20582.3	21661.6	22608.0	23047.9	25171.7	18806.7
62.5°	6681.4	6741.6	8957.1	11846.8	15711.3	19329.0	23532.2	25358.4	25291.9	26304.8	20392.4
65°	3326.5	3446.7	4649.5	6785.9	10454.2	15974.0	23855.0	29555.3	29365.4	28972.9	23668.3
67.5°	2111.1	2158.6	2823.2	3943.7	5811.0	10267.4	21845.2	32685.5	33125.4	32138.0	26918.8
70°	1367.3	1446.4	1962.3	2696.6	3506.9	5292.0	16002.5	30656.7	31666.4	31789.8	24893.1
72.5°	743.8	800.8	1253.4	1924.4	2532.0	2646.0	8988.8	23006.8	24630.4	26966.3	19474.6
75°	424.1	465.3	686.8	1307.2	1857.9	1611.0	3984.8	15401.1	16436.1	19272.0	13954.7
77.5°	256.4	291.2	386.1	636.2	1164.7	1076.1	1506.6	9374.9	10033.2	11498.6	7323.9
80°	117.1	139.3	243.7	351.3	636.2	509.6	576.0	4370.9	4513.4	4719.1	2424.4
82.5°	53.8	63.3	110.8	208.9	360.8	294.3	221.6	1009.7	1421.1	1345.1	617.2
85°	6.3	6.3	41.1	85.5	101.3	76.0	91.8	227.9	288.0	405.1	177.2
87.5°	0.0	0.0	3.2	3.2	6.3	9.5	19.0	28.5	41.1	66.5	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°	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7	3848.7
2.5°	3908.8	3820.2	3741.1	3624.0	3544.9	3456.2	3396.1	3323.3	3294.8	3272.7	3241.0
5°	3997.5	3855.0	3662.0	3446.7	3269.5	3101.8	2946.7	2845.4	2756.8	2744.1	2699.8
7.5°	4143.1	3931.0	3605.0	3253.7	2953.0	2674.5	2456.1	2278.8	2190.2	2161.7	2111.1
10°	4336.1	4044.9	3519.5	2981.5	2547.9	2215.5	1968.7	1769.3	1630.0	1579.4	1541.4
12.5°	4551.3	4149.4	3383.4	2646.0	2152.2	1772.4	1459.1	1247.0	1158.4	1126.8	1098.3
15°	4798.2	4247.5	3168.2	2310.5	1766.1	1304.0	1082.4	990.7	952.7	943.2	933.7
17.5°	5035.6	4310.8	2911.8	1962.3	1357.8	1012.8	908.4	873.6	864.1	854.6	848.2
20°	5304.6	4355.1	2611.2	1633.2	1054.0	857.7	807.1	781.8	762.8	743.8	740.6
22.5°	5580.0	4355.1	2285.2	1310.3	883.0	769.1	712.1	664.7	629.8	610.9	604.5
25°	5842.7	4295.0	1962.3	1047.6	778.6	683.7	610.9	557.0	509.6	487.4	481.1
27.5°	6029.4	4139.9	1680.6	886.2	705.8	607.7	519.1	458.9	421.0	398.8	395.6
30°	6146.5	3908.8	1421.1	791.3	642.5	528.6	439.9	389.3	360.8	345.0	338.7
32.5°	6235.2	3624.0	1190.1	724.8	582.4	458.9	383.0	341.8	316.5	303.8	300.7
35°	6412.4	3355.0	1019.1	664.7	519.1	402.0	335.5	303.8	284.9	269.0	265.9
37.5°	6659.3	3130.2	883.0	610.9	458.9	357.7	303.8	275.4	259.5	243.7	240.5
40°	7023.3	2987.8	781.8	557.0	405.1	322.8	278.5	253.2	231.0	215.2	212.1
42.5°	7583.5	2921.3	715.3	503.2	357.7	291.2	256.4	224.7	202.6	186.7	183.6
45°	8251.3	2956.2	658.3	449.4	326.0	269.0	227.9	196.2	174.1	158.3	155.1
47.5°	8966.6	3079.6	610.9	398.8	294.3	246.9	202.6	167.7	148.8	132.9	129.8
50°	9713.5	3282.2	569.7	351.3	269.0	221.6	174.1	145.6	126.6	113.9	110.8
52.5°	10362.4	3557.5	528.6	316.5	246.9	196.2	151.9	126.6	107.6	95.0	91.8
55°	10982.7	3817.1	496.9	284.9	221.6	170.9	132.9	107.6	91.8	79.1	76.0
57.5°	11656.9	4092.4	458.9	256.4	199.4	151.9	117.1	91.8	79.1	66.5	63.3
60°	12638.1	4500.7	402.0	234.2	174.1	132.9	101.3	82.3	69.6	53.8	50.6
62.5°	14052.8	5244.5	338.7	202.6	148.8	113.9	85.5	69.6	57.0	44.3	38.0
65°	16698.8	6510.5	278.5	167.7	120.3	95.0	72.8	57.0	44.3	31.7	28.5
67.5°	18604.2	6839.7	224.7	136.1	98.1	72.8	60.1	44.3	31.7	22.2	19.0
70°	16265.2	4912.2	174.1	110.8	82.3	57.0	47.5	34.8	22.2	15.8	12.7
72.5°	12255.1	3209.4	129.8	85.5	63.3	47.5	34.8	28.5	19.0	12.7	9.5
75°	8637.4	1854.7	95.0	63.3	44.3	34.8	28.5	22.2	15.8	9.5	9.5
77.5°	4427.9	765.9	66.5	44.3	31.7	22.2	19.0	12.7	12.7	9.5	6.3
80°	1345.1	253.2	38.0	28.5	22.2	15.8	9.5	9.5	9.5	6.3	3.2
82.5°	307.0	82.3	22.2	22.2	15.8	12.7	9.5	3.2	3.2	0.0	0.0
85°	79.1	25.3	19.0	15.8	15.8	12.7	6.3	3.2	0.0	0.0	0.0
87.5°	28.5	15.8	15.8	15.8	12.7	9.5	6.3	0.0	0.0	0.0	0.0
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)