

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: P639674

Luminaire Tested: GWS-SA5C-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19695.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

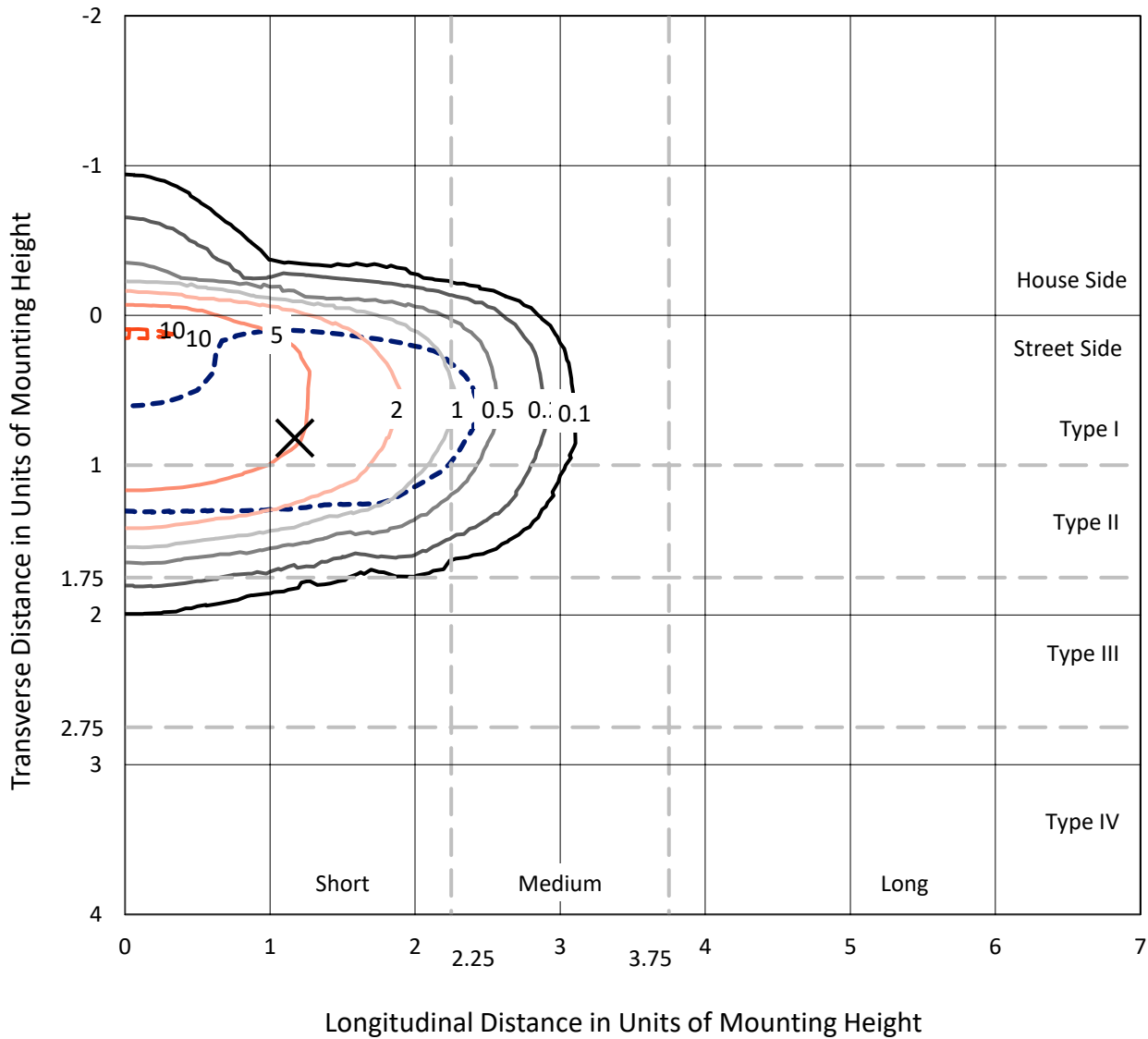
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

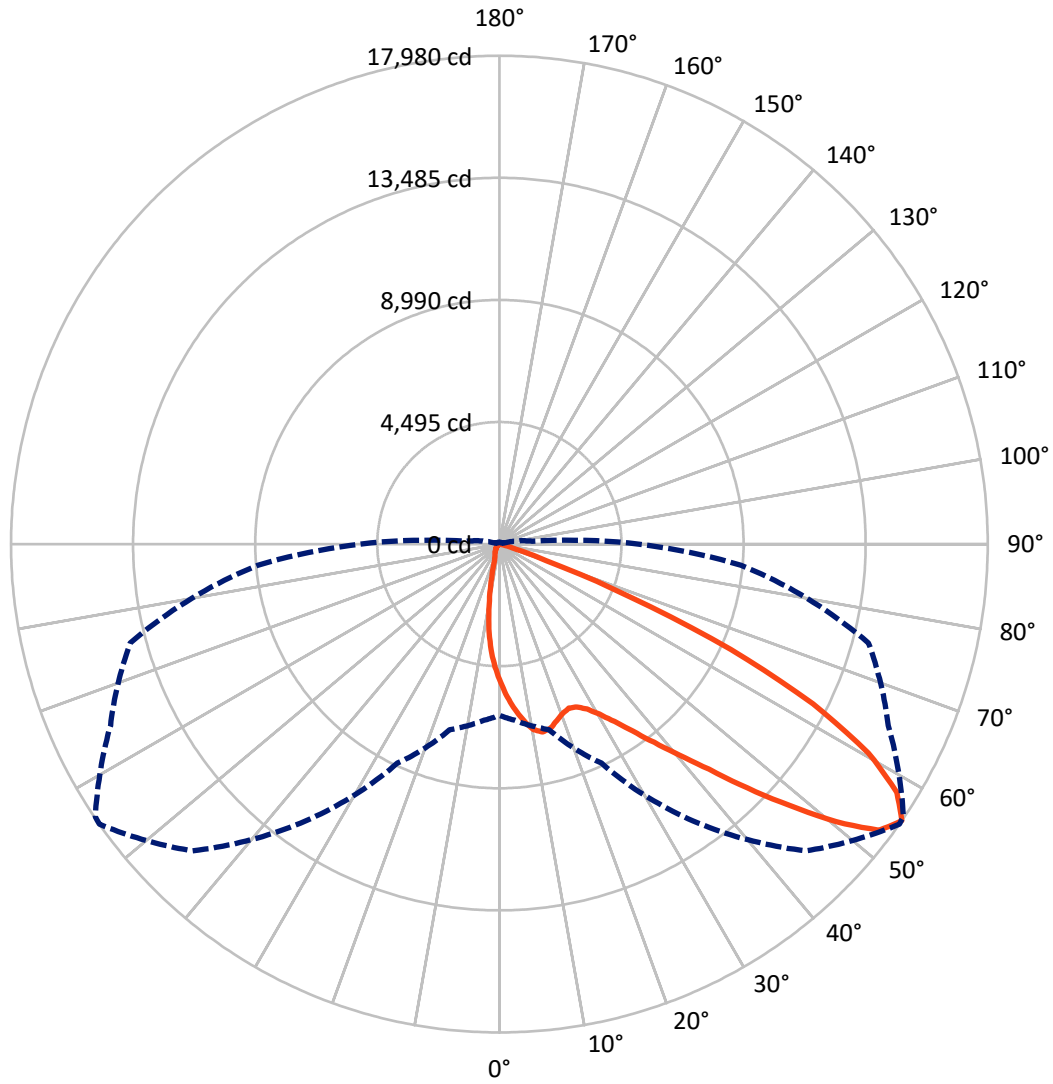
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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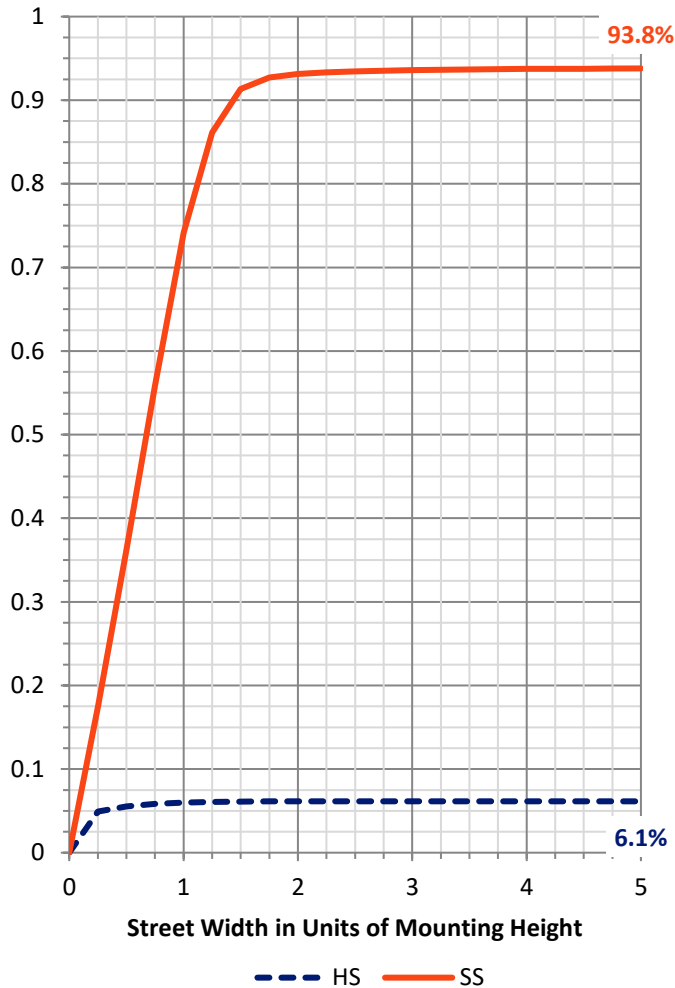
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1215.3	0.0	1215.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18480.1	0.0	18480.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	19695.4	0.0	19695.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.7	2.3
10°-20°	1084.1	5.5
20°-30°	1805.5	9.2
30°-40°	3076.6	15.6
40°-50°	5022.1	25.5
50°-60°	5257.9	26.7
60°-70°	2652.0	13.5
70°-80°	335.0	1.7
80°-90°	12.7	0.1
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°	19695.4	100.0
0°-180°	19695.4	100.0

Coefficient of Utilization



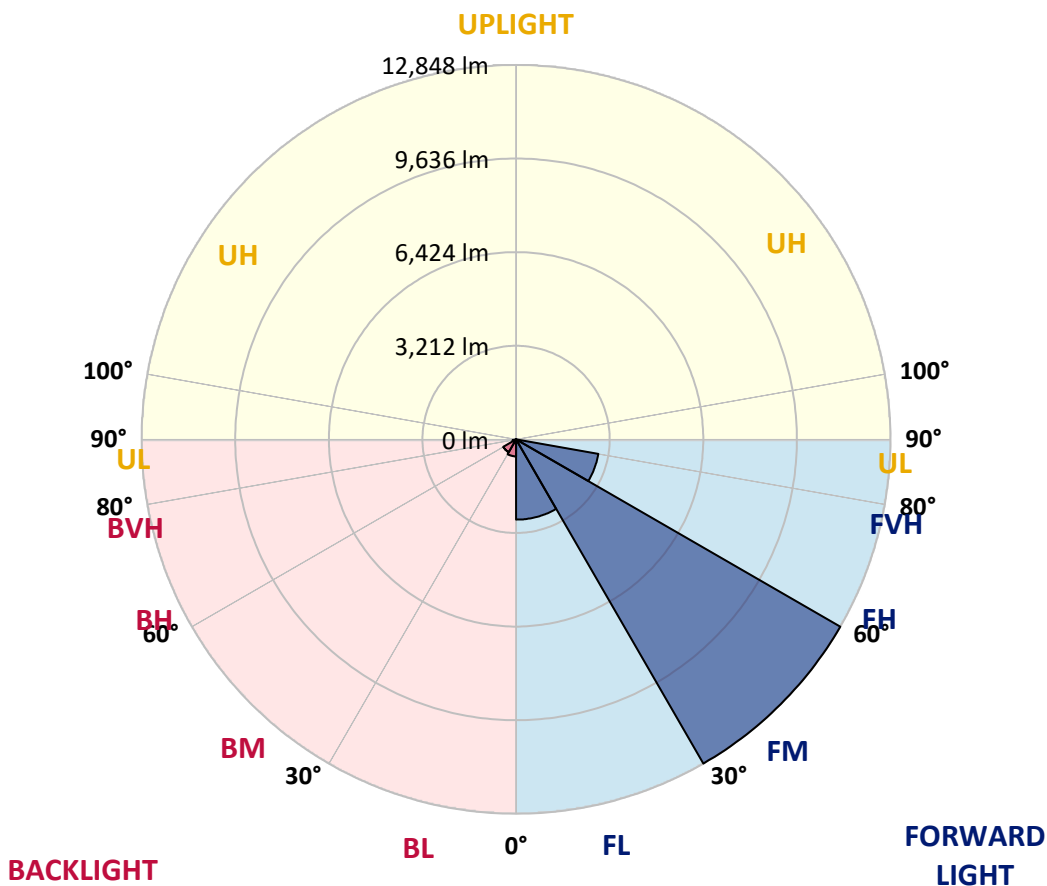
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2755.1	14.0			
FM (30°-60°)	12848.4	65.2			
FH (60°-80°)	2865.0	14.5			G2/5000
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	584.1	3.0	B2/1000		
BM (30°-60°)	508.1	2.6	B1/1000		
BH (60°-80°)	121.9	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1
2.5°	5931.7	5903.0	5946.8	5896.3	5810.4	5738.0	5643.8	5610.1	5458.6	5315.4	5177.4
5°	6652.3	6660.7	6647.2	6576.5	6455.3	6320.6	6130.3	6088.3	5823.9	5551.2	5256.5
7.5°	6830.8	6825.7	6854.3	6881.3	6861.1	6793.7	6586.6	6544.5	6216.2	5807.1	5377.7
10°	6280.2	6283.6	6342.5	6524.3	6749.9	6984.0	6952.0	6928.4	6606.8	6096.7	5512.4
12.5°	5502.3	5532.6	5594.9	5854.2	6236.4	6768.5	7098.5	7122.0	6965.5	6414.9	5670.7
15°	5165.6	5172.3	5222.8	5379.4	5664.0	6320.6	7036.2	7101.8	7265.2	6734.8	5842.4
17.5°	5157.2	5165.6	5187.5	5256.5	5441.7	5968.7	6835.8	6950.3	7490.8	7078.3	6047.8
20°	5473.7	5468.7	5453.5	5416.5	5497.3	5852.5	6650.6	6776.9	7613.7	7413.3	6254.9
22.5°	6047.8	6041.1	5973.8	5820.5	5754.9	5958.6	6559.7	6674.2	7687.8	7711.3	6425.0
25°	6709.5	6756.7	6630.4	6398.1	6236.4	6229.7	6640.5	6721.3	7751.7	7975.7	6541.2
27.5°	7435.2	7450.4	7342.6	7081.6	6847.6	6664.1	6874.5	6935.2	7822.5	8211.4	6606.8
30°	8231.6	8226.6	8103.6	7800.6	7516.0	7251.7	7268.5	7292.1	7987.5	8480.8	6679.2
32.5°	9226.7	9248.6	9029.7	8617.2	8275.4	7910.0	7783.7	7787.1	8285.5	8827.6	6788.7
35°	10578.7	10524.8	10235.2	9647.6	9065.0	8671.0	8455.5	8437.0	8745.1	9294.0	6978.9
37.5°	11866.7	11871.8	11568.7	10922.2	10186.4	9565.1	9260.3	9209.8	9391.7	9940.6	7295.5
40°	12760.8	12777.6	12651.3	12312.9	11533.3	10654.4	10206.6	10154.4	10230.2	10758.8	7709.7
42.5°	13233.9	13281.0	13316.4	13395.5	12804.5	12014.9	11326.2	11321.2	11242.1	11691.6	8189.5
45°	13252.4	13323.1	13538.6	14079.1	14146.4	13567.2	12818.0	12705.2	12400.4	12690.0	8618.9
47.5°	12520.0	12683.3	13141.3	14212.1	14919.3	15111.2	14368.7	14299.7	13444.3	13479.7	8940.4
50°	10812.7	10982.8	11826.3	13530.2	15114.6	16336.9	16070.9	15927.8	14316.5	14001.6	9095.3
52.5°	9061.7	9216.6	9789.0	11907.1	14304.7	16722.5	17505.4	17335.4	15099.4	14183.5	9031.4
55°	6305.5	6512.5	7071.5	8900.0	12439.2	15971.6	17980.2	17944.9	15798.1	14069.0	8932.0
57.5°	3091.3	3296.7	3854.0	5487.2	9214.9	13944.4	17254.5	17441.4	16215.7	13946.1	8851.2
60°	1291.4	1375.6	1567.5	2407.7	5155.5	10538.3	15616.3	15875.6	15959.8	13779.4	8842.8
62.5°	749.2	762.7	782.9	998.4	2005.3	6041.1	12954.4	13323.1	14614.5	13558.8	8709.8
65°	565.7	570.8	562.4	612.9	828.4	2291.5	9359.7	9861.4	12198.4	12696.8	8184.5
67.5°	464.7	464.7	442.8	452.9	520.3	858.7	5167.3	5867.7	9026.3	10435.6	6758.4
70°	370.4	378.8	368.7	355.3	372.1	474.8	1838.6	2279.7	5256.5	6162.3	3941.5
72.5°	281.2	281.2	298.0	287.9	276.1	298.0	641.5	720.6	2109.7	2569.3	1422.7
75°	217.2	223.9	235.7	225.6	208.8	176.8	308.1	326.6	636.4	597.7	318.2
77.5°	111.1	112.8	149.8	165.0	154.9	107.8	134.7	148.2	207.1	185.2	117.9
80°	67.3	70.7	84.2	129.6	102.7	57.2	55.6	58.9	97.7	84.2	48.8
82.5°	28.6	30.3	47.1	47.1	42.1	21.9	21.9	21.9	47.1	43.8	20.2
85°	0.0	0.0	8.4	6.7	6.7	8.4	8.4	8.4	11.8	16.8	10.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	5.1
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°	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1
2.5°	5088.1	4980.4	4835.6	4704.3	4527.5	4428.1	4290.1	4177.3	4081.3	4051.0	4037.5
5°	5089.8	4904.6	4594.8	4285.0	3904.5	3604.8	3296.7	3052.5	2852.2	2788.2	2771.4
7.5°	5123.5	4850.7	4349.0	3786.6	3150.2	2624.9	2155.1	1734.2	1538.9	1473.2	1459.8
10°	5169.0	4805.3	4064.4	3188.9	2274.7	1599.5	1133.1	863.7	735.8	665.1	675.2
12.5°	5227.9	4768.2	3749.6	2542.4	1505.2	878.9	623.0	521.9	495.0	481.5	474.8
15°	5307.0	4724.5	3359.0	1900.9	922.7	565.7	479.9	452.9	442.8	436.1	434.4
17.5°	5387.8	4673.9	2961.6	1336.9	612.9	469.8	431.0	417.6	410.8	405.8	404.1
20°	5473.7	4588.1	2495.2	921.0	483.2	422.6	397.4	382.2	373.8	365.4	363.7
22.5°	5510.7	4450.0	2049.1	644.9	429.3	388.9	356.9	338.4	328.3	321.6	321.6
25°	5475.4	4226.1	1587.7	490.0	390.6	351.9	319.9	299.7	291.3	284.5	284.5
27.5°	5381.1	3938.2	1158.4	405.8	348.5	313.2	282.9	264.3	257.6	254.2	254.2
30°	5276.7	3574.5	816.6	348.5	301.4	272.8	247.5	235.7	234.0	230.7	230.7
32.5°	5187.5	3234.4	562.4	306.4	266.0	237.4	220.6	215.5	217.2	213.8	215.5
35°	5138.6	2901.0	417.6	272.8	237.4	210.5	202.0	202.0	202.0	200.4	200.4
37.5°	5158.9	2572.7	340.1	249.2	212.1	191.9	183.5	186.9	190.3	190.3	190.3
40°	5259.9	2281.4	301.4	227.3	190.3	175.1	168.4	173.4	178.5	181.8	181.8
42.5°	5387.8	2045.7	272.8	208.8	175.1	158.3	154.9	160.0	165.0	168.4	168.4
45°	5468.7	1808.3	244.1	185.2	160.0	139.7	139.7	146.5	144.8	146.5	146.5
47.5°	5505.7	1619.7	215.5	160.0	136.4	121.2	122.9	126.3	122.9	126.3	126.3
50°	5414.8	1429.5	190.3	133.0	112.8	106.1	109.4	107.8	107.8	114.5	114.5
52.5°	5248.1	1288.0	168.4	112.8	96.0	94.3	97.7	90.9	92.6	92.6	90.9
55°	5125.2	1207.2	149.8	97.7	82.5	84.2	82.5	70.7	64.0	57.2	55.6
57.5°	5064.6	1175.2	136.4	87.6	74.1	74.1	67.3	48.8	37.0	28.6	25.3
60°	5051.1	1136.5	122.9	75.8	65.7	62.3	48.8	28.6	18.5	13.5	11.8
62.5°	4923.1	1042.2	111.1	60.6	57.2	50.5	30.3	16.8	10.1	6.7	5.1
65°	4503.9	857.0	99.3	47.1	43.8	37.0	18.5	10.1	5.1	1.7	0.0
67.5°	3582.9	607.8	87.6	35.4	30.3	23.6	11.8	6.7	1.7	0.0	0.0
70°	2065.9	328.3	72.4	25.3	20.2	15.2	8.4	3.4	0.0	0.0	0.0
72.5°	690.3	153.2	55.6	16.8	15.2	11.8	5.1	1.7	0.0	0.0	0.0
75°	151.5	90.9	37.0	11.8	10.1	8.4	3.4	0.0	0.0	0.0	0.0
77.5°	57.2	64.0	18.5	8.4	6.7	5.1	1.7	0.0	0.0	0.0	0.0
80°	21.9	42.1	8.4	5.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	11.8	16.8	5.1	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	8.4	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.7	1.7	0.0	0.0	0.0	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)