

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: P639179

Luminaire Tested: GWS-SA5B-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639179
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-SA5B-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: 14685.9 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

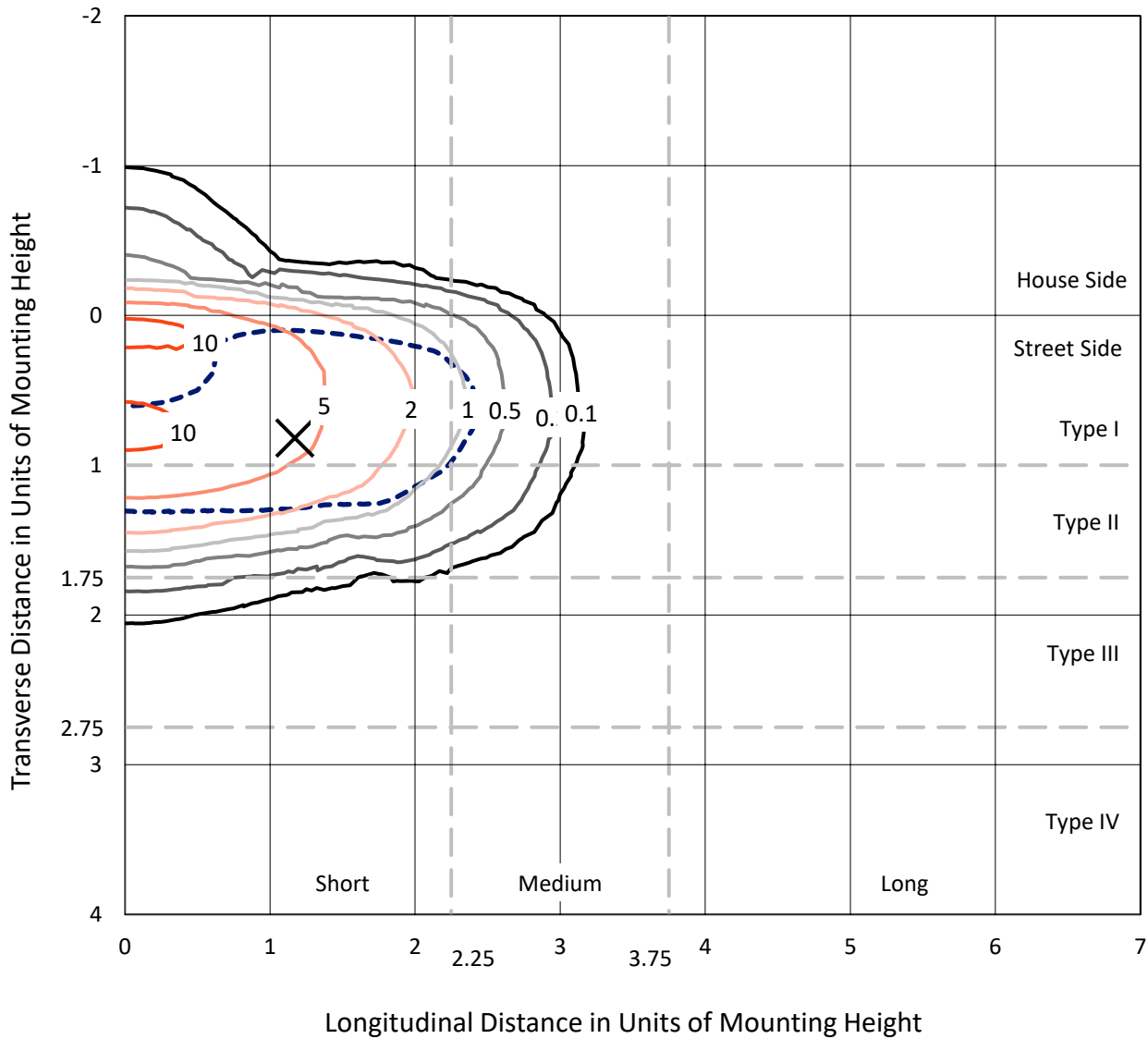
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

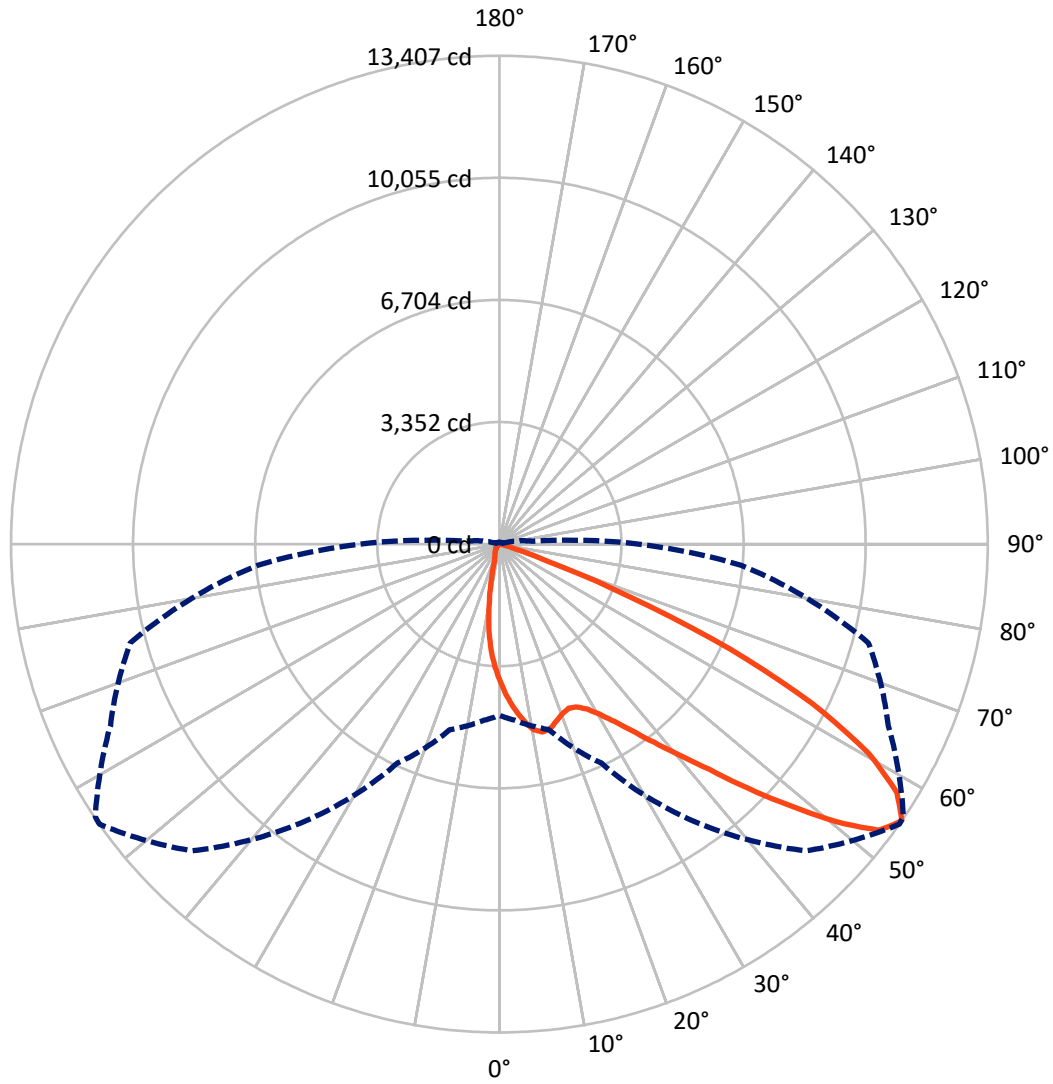
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 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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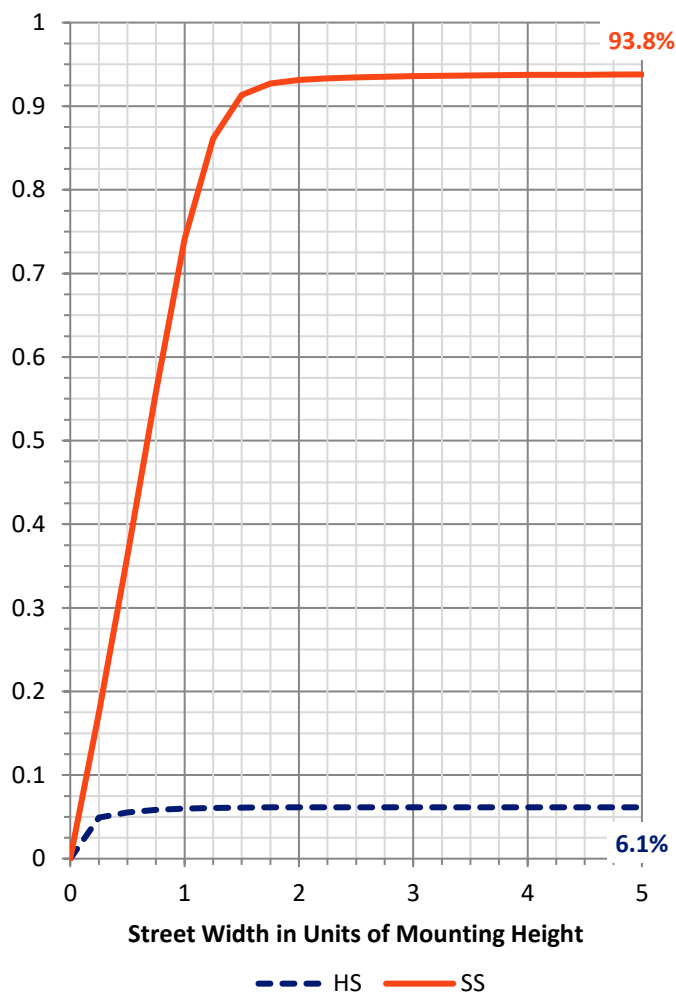
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.2	0.0	906.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13779.7	0.0	13779.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	14685.9	0.0	14685.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	2.3
10°-20°	808.4	5.5
20°-30°	1346.2	9.2
30°-40°	2294.1	15.6
40°-50°	3744.7	25.5
50°-60°	3920.5	26.7
60°-70°	1977.4	13.5
70°-80°	249.8	1.7
80°-90°	9.5	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°	14685.9	100.0
0°-180°	14685.9	100.0

Coefficient of Utilization



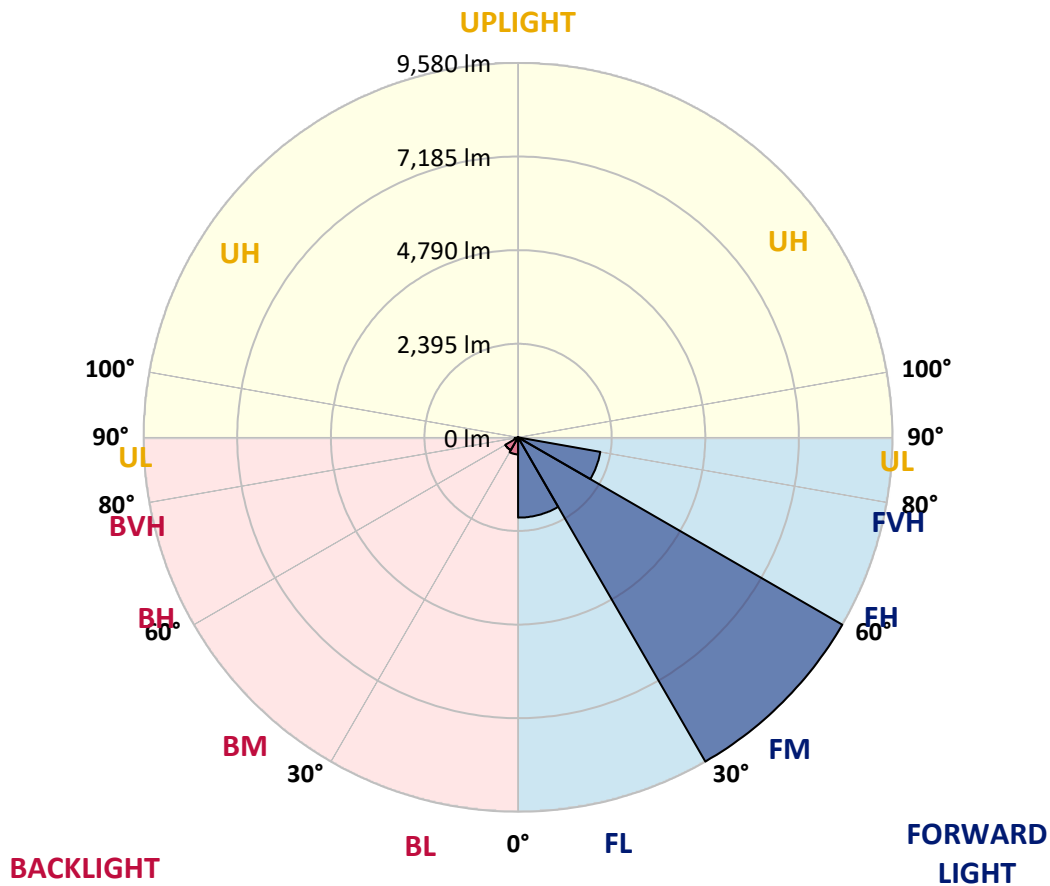
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.4	14.0			
FM (30°-60°)	9580.4	65.2			
FH (60°-80°)	2136.3	14.5			G2/5000
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	435.5	3.0	B1/500		
BM (30°-60°)	378.9	2.6	B1/1000		
BH (60°-80°)	90.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0
2.5°	4423.0	4401.6	4434.3	4396.6	4332.6	4278.6	4208.3	4183.2	4070.2	3963.5	3860.5
5°	4960.3	4966.6	4956.5	4903.8	4813.4	4713.0	4571.1	4539.7	4342.6	4139.2	3919.5
7.5°	5093.4	5089.6	5110.9	5131.0	5116.0	5065.7	4911.3	4879.9	4635.1	4330.1	4009.9
10°	4682.8	4685.3	4729.3	4864.9	5033.1	5207.6	5183.8	5166.2	4926.4	4546.0	4110.4
12.5°	4102.8	4125.4	4171.9	4365.2	4650.2	5046.9	5293.0	5310.6	5193.8	4783.3	4228.4
15°	3851.7	3856.7	3894.4	4011.2	4223.3	4713.0	5246.5	5295.5	5417.3	5021.8	4356.4
17.5°	3845.4	3851.7	3868.0	3919.5	4057.6	4450.6	5097.1	5182.5	5585.5	5277.9	4509.6
20°	4081.5	4077.7	4066.4	4038.8	4099.1	4364.0	4959.0	5053.2	5677.2	5527.8	4664.0
22.5°	4509.6	4504.6	4454.3	4340.1	4291.1	4443.0	4891.2	4976.6	5732.4	5750.0	4790.8
25°	5003.0	5038.1	4944.0	4770.7	4650.2	4645.2	4951.5	5011.8	5780.1	5947.1	4877.4
27.5°	5544.1	5555.4	5475.0	5280.4	5105.9	4969.1	5126.0	5171.2	5832.8	6122.8	4926.4
30°	6137.9	6134.1	6042.5	5816.5	5604.3	5407.2	5419.8	5437.4	5955.9	6323.7	4980.4
32.5°	6879.9	6896.2	6733.0	6425.4	6170.5	5898.1	5804.0	5806.5	6178.1	6582.3	5062.0
35°	7888.0	7847.8	7631.9	7193.7	6759.4	6465.6	6304.9	6291.1	6520.8	6930.1	5203.8
37.5°	8848.4	8852.2	8626.2	8144.1	7595.5	7132.2	6905.0	6867.3	7002.9	7412.2	5439.9
40°	9515.1	9527.6	9433.5	9181.1	8599.8	7944.5	7610.6	7571.6	7628.1	8022.3	5748.7
42.5°	9867.9	9903.0	9929.4	9988.4	9547.7	8958.9	8445.4	8441.7	8382.7	8717.9	6106.5
45°	9881.7	9934.4	10095.1	10498.1	10548.3	10116.4	9557.8	9473.6	9246.4	9462.3	6426.7
47.5°	9335.5	9457.3	9798.8	10597.3	11124.6	11267.7	10714.0	10662.6	10024.8	10051.1	6666.5
50°	8062.5	8189.3	8818.3	10088.8	11270.2	12181.7	11983.3	11876.6	10675.1	10440.3	6782.0
52.5°	6756.8	6872.3	7299.2	8878.6	10666.3	12469.2	13052.9	12926.1	11258.9	10575.9	6734.2
55°	4701.7	4856.1	5272.9	6636.3	9275.3	11909.2	13407.0	13380.6	11779.9	10490.6	6660.2
57.5°	2305.0	2458.2	2873.7	4091.5	6871.1	10397.7	12865.9	13005.2	12091.3	10398.9	6599.9
60°	962.9	1025.7	1168.8	1795.3	3844.2	7857.9	11644.3	11837.7	11900.4	10274.6	6593.6
62.5°	558.7	568.7	583.8	744.5	1495.2	4504.6	9659.4	9934.4	10897.3	10110.2	6494.5
65°	421.8	425.6	419.3	457.0	617.7	1708.7	6979.1	7353.2	9095.8	9467.4	6102.8
67.5°	346.5	346.5	330.2	337.7	387.9	640.3	3853.0	4375.3	6730.5	7781.3	5039.4
70°	276.2	282.5	274.9	264.9	277.5	354.0	1371.0	1699.9	3919.5	4595.0	2939.0
72.5°	209.7	209.7	222.2	214.7	205.9	222.2	478.3	537.3	1573.1	1915.8	1060.9
75°	162.0	167.0	175.8	168.2	155.7	131.8	229.7	243.6	474.6	445.7	237.3
77.5°	82.9	84.1	111.7	123.0	115.5	80.3	100.4	110.5	154.4	138.1	87.9
80°	50.2	52.7	62.8	96.7	76.6	42.7	41.4	43.9	72.8	62.8	36.4
82.5°	21.3	22.6	35.2	35.2	31.4	16.3	16.3	16.3	35.2	32.6	15.1
85°	0.0	0.0	6.3	5.0	5.0	6.3	6.3	6.3	8.8	12.6	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	3.8
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°	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0
2.5°	3794.0	3713.6	3605.7	3507.7	3375.9	3301.8	3198.9	3114.8	3043.2	3020.6	3010.6
5°	3795.2	3657.1	3426.1	3195.1	2911.4	2687.9	2458.2	2276.1	2126.7	2079.0	2066.5
7.5°	3820.3	3617.0	3242.8	2823.5	2349.0	1957.2	1607.0	1293.1	1147.5	1098.5	1088.5
10°	3854.2	3583.1	3030.7	2377.8	1696.1	1192.7	844.9	644.0	548.6	495.9	503.4
12.5°	3898.2	3555.4	2795.9	1895.7	1122.4	655.3	464.5	389.2	369.1	359.1	354.0
15°	3957.2	3522.8	2504.6	1417.4	688.0	421.8	357.8	337.7	330.2	325.2	323.9
17.5°	4017.4	3485.1	2208.3	996.8	457.0	350.3	321.4	311.4	306.3	302.6	301.3
20°	4081.5	3421.1	1860.6	686.7	360.3	315.1	296.3	285.0	278.7	272.4	271.2
22.5°	4109.1	3318.2	1527.9	480.8	320.1	290.0	266.2	252.3	244.8	239.8	239.8
25°	4082.7	3151.2	1183.9	365.3	291.3	262.4	238.5	223.5	217.2	212.2	212.2
27.5°	4012.4	2936.5	863.8	302.6	259.9	233.5	210.9	197.1	192.1	189.6	189.6
30°	3934.6	2665.3	608.9	259.9	224.7	203.4	184.6	175.8	174.5	172.0	172.0
32.5°	3868.0	2411.7	419.3	228.5	198.4	177.0	164.5	160.7	162.0	159.4	160.7
35°	3831.6	2163.1	311.4	203.4	177.0	156.9	150.7	150.7	150.7	149.4	149.4
37.5°	3846.7	1918.3	253.6	185.8	158.2	143.1	136.8	139.4	141.9	141.9	141.9
40°	3922.0	1701.1	224.7	169.5	141.9	130.6	125.5	129.3	133.1	135.6	135.6
42.5°	4017.4	1525.4	203.4	155.7	130.6	118.0	115.5	119.3	123.0	125.5	125.5
45°	4077.7	1348.4	182.0	138.1	119.3	104.2	104.2	109.2	108.0	109.2	109.2
47.5°	4105.3	1207.7	160.7	119.3	101.7	90.4	91.6	94.2	91.6	94.2	94.2
50°	4037.5	1065.9	141.9	99.2	84.1	79.1	81.6	80.3	80.3	85.4	85.4
52.5°	3913.2	960.4	125.5	84.1	71.6	70.3	72.8	67.8	69.0	69.0	67.8
55°	3821.6	900.2	111.7	72.8	61.5	62.8	61.5	52.7	47.7	42.7	41.4
57.5°	3776.4	876.3	101.7	65.3	55.2	55.2	50.2	36.4	27.6	21.3	18.8
60°	3766.4	847.4	91.6	56.5	49.0	46.5	36.4	21.3	13.8	10.0	8.8
62.5°	3670.9	777.1	82.9	45.2	42.7	37.7	22.6	12.6	7.5	5.0	3.8
65°	3358.3	639.0	74.1	35.2	32.6	27.6	13.8	7.5	3.8	1.3	0.0
67.5°	2671.6	453.2	65.3	26.4	22.6	17.6	8.8	5.0	1.3	0.0	0.0
70°	1540.4	244.8	54.0	18.8	15.1	11.3	6.3	2.5	0.0	0.0	0.0
72.5°	514.7	114.2	41.4	12.6	11.3	8.8	3.8	1.3	0.0	0.0	0.0
75°	113.0	67.8	27.6	8.8	7.5	6.3	2.5	0.0	0.0	0.0	0.0
77.5°	42.7	47.7	13.8	6.3	5.0	3.8	1.3	0.0	0.0	0.0	0.0
80°	16.3	31.4	6.3	3.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.8	12.6	3.8	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	6.3	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	1.3	1.3	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)