

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: P638684

Luminaire Tested: GWS-SA4F-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638684
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-SA4F-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28141.8 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

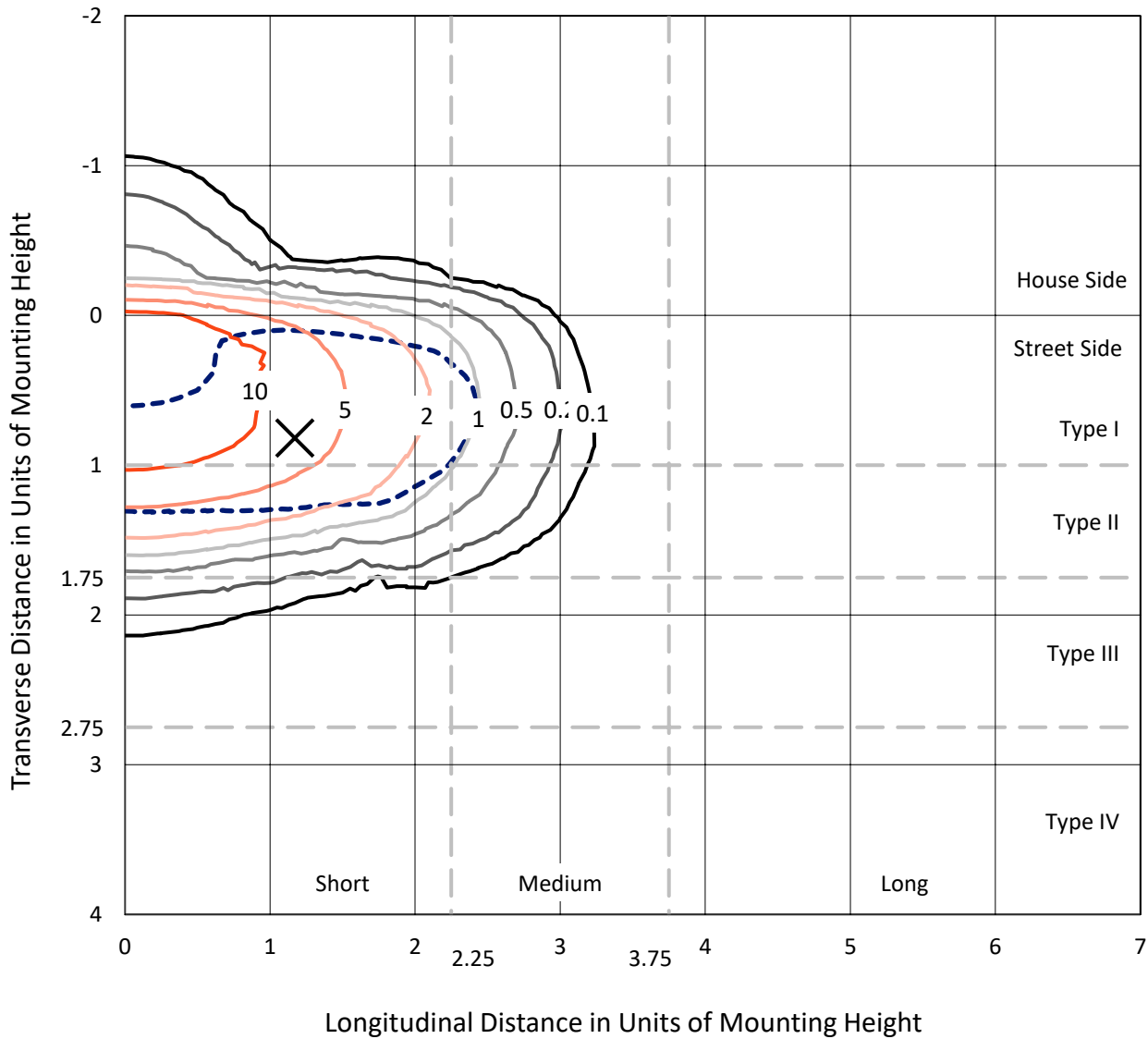
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

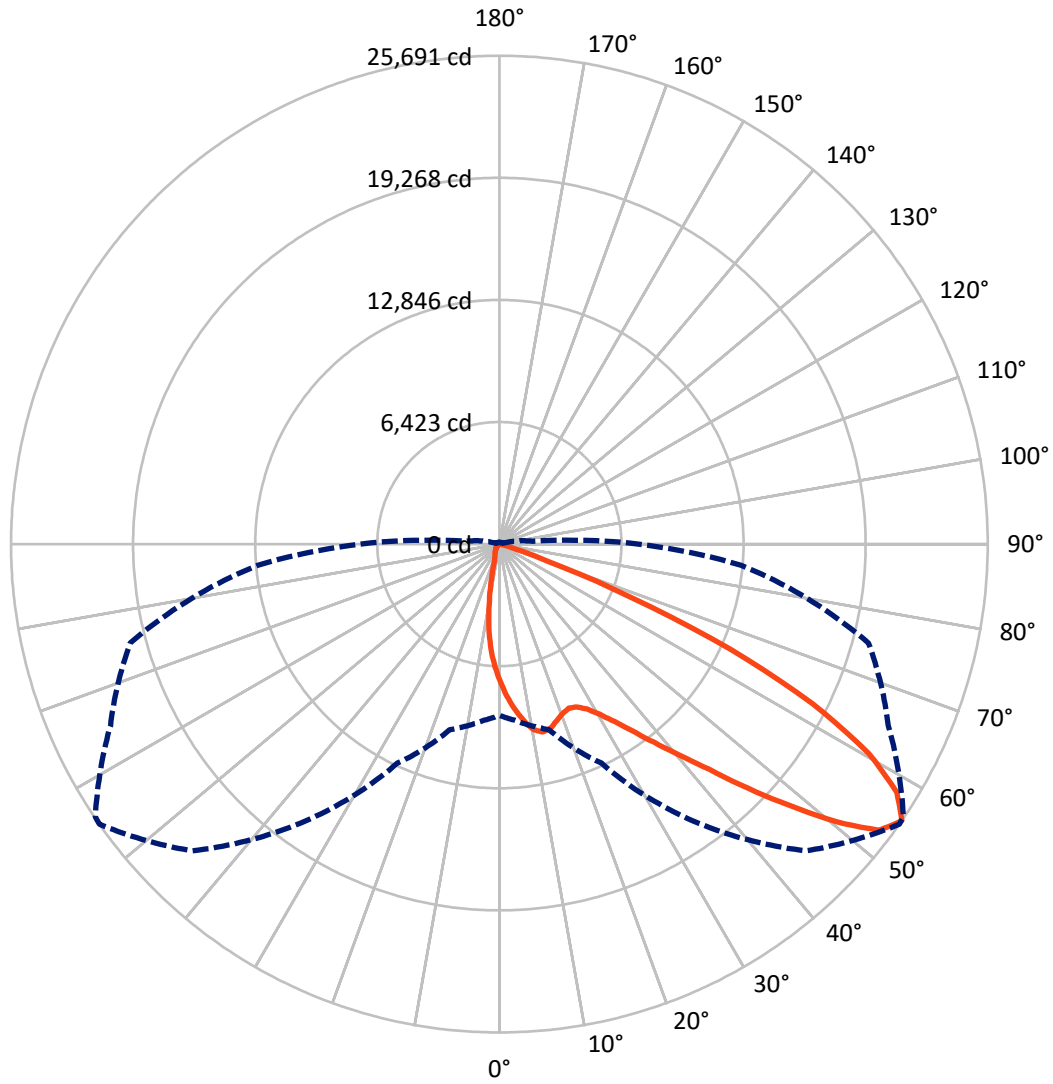
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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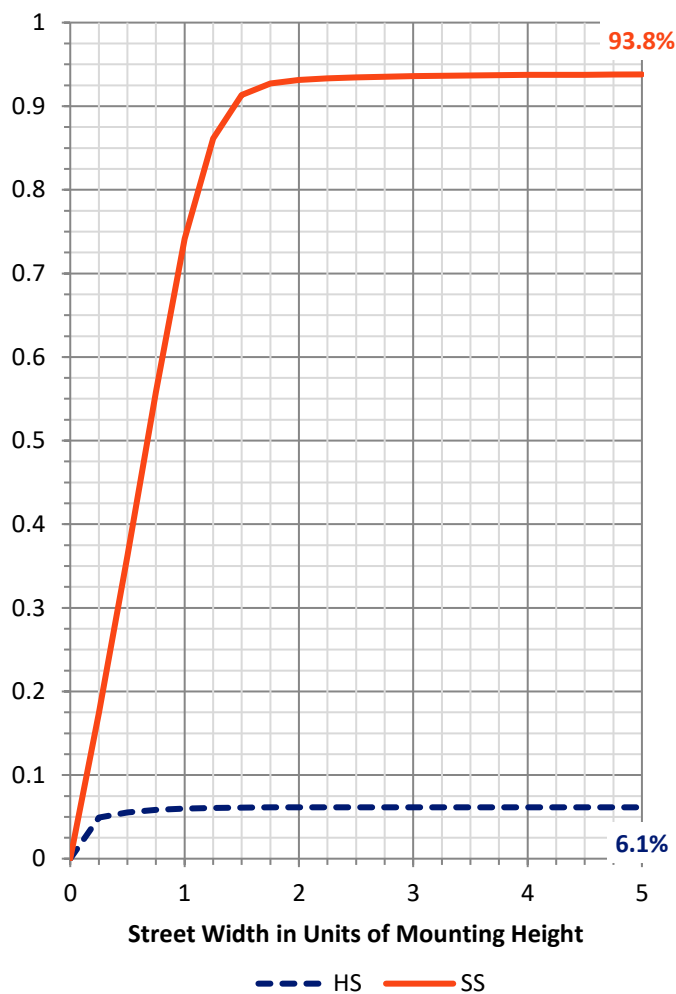
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.5	0.0	1736.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	26405.3	0.0	26405.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	28141.8	0.0	28141.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.5	2.3
10°-20°	1549.0	5.5
20°-30°	2579.7	9.2
30°-40°	4396.0	15.6
40°-50°	7175.8	25.5
50°-60°	7512.7	26.7
60°-70°	3789.3	13.5
70°-80°	478.6	1.7
80°-90°	18.2	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°	28141.8	100.0
0°-180°	28141.8	100.0

Coefficient of Utilization



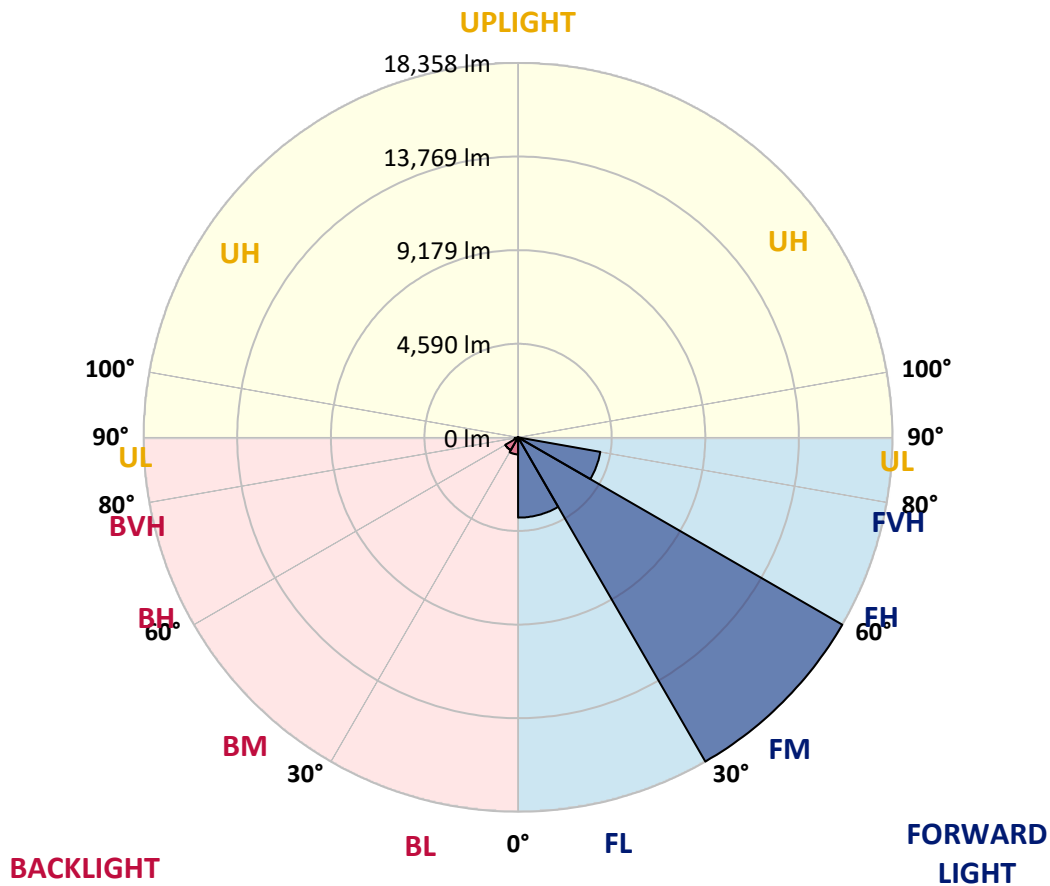
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3936.6	14.0			
FM (30°-60°)	18358.5	65.2			
FH (60°-80°)	4093.7	14.5			G2/5000
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	834.6	3.0	B2/1000		
BM (30°-60°)	726.0	2.6	B1/1000		
BH (60°-80°)	174.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.6	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°	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2
2.5°	8475.5	8434.6	8497.1	8425.0	8302.3	8198.8	8064.1	8016.0	7799.5	7595.0	7397.7
5°	9505.1	9517.2	9497.9	9396.9	9223.7	9031.2	8759.4	8699.2	8321.5	7931.8	7510.8
7.5°	9760.1	9752.9	9793.8	9832.3	9803.5	9707.2	9411.3	9351.2	8882.0	8297.5	7684.0
10°	8973.5	8978.3	9062.5	9322.3	9644.7	9979.1	9933.4	9899.7	9440.2	8711.2	7876.4
12.5°	7862.0	7905.3	7994.3	8364.8	8910.9	9671.1	10142.7	10176.3	9952.6	9165.9	8102.6
15°	7380.9	7390.5	7462.7	7686.4	8093.0	9031.2	10053.7	10147.5	10380.8	9623.0	8348.0
17.5°	7368.8	7380.9	7412.1	7510.8	7775.4	8528.4	9767.4	9931.0	10703.2	10113.8	8641.5
20°	7821.1	7813.9	7792.2	7739.3	7854.8	8362.4	9502.7	9683.2	10878.8	10592.5	8937.4
22.5°	8641.5	8631.9	8535.6	8316.7	8222.9	8514.0	9372.8	9536.4	10984.7	11018.4	9180.4
25°	9586.9	9654.3	9473.9	9141.9	8910.9	8901.3	9488.3	9603.8	11076.1	11396.1	9346.4
27.5°	10623.8	10645.5	10491.5	10118.6	9784.2	9522.0	9822.7	9909.3	11177.1	11732.9	9440.2
30°	11761.7	11754.5	11578.9	11145.9	10739.3	10361.6	10385.6	10419.3	11412.9	12117.8	9543.6
32.5°	13183.5	13214.8	12902.1	12312.7	11824.3	11302.2	11121.8	11126.6	11838.7	12613.4	9700.0
35°	15115.4	15038.4	14624.6	13785.0	12952.6	12389.6	12081.7	12055.2	12495.5	13279.8	9971.9
37.5°	16955.8	16963.0	16529.9	15606.1	14554.8	13667.1	13231.7	13159.5	13419.3	14203.6	10424.1
40°	18233.2	18257.3	18076.8	17593.3	16479.4	15223.6	14583.7	14509.1	14617.4	15372.8	11016.0
42.5°	18909.2	18976.6	19027.1	19140.2	18295.8	17167.5	16183.5	16176.3	16063.2	16705.6	11701.6
45°	18935.7	19036.7	19344.7	20116.9	20213.2	19385.6	18315.0	18153.8	17718.4	18132.2	12315.1
47.5°	17889.2	18122.6	18776.9	20307.0	21317.4	21591.7	20530.7	20432.1	19210.0	19260.5	12774.6
50°	15449.8	15692.7	16898.0	19332.7	21596.5	23343.0	22962.9	22758.4	20456.1	20006.3	12995.9
52.5°	12947.8	13169.1	13987.1	17013.5	20439.3	23894.0	25012.6	24769.7	21574.8	20266.1	12904.5
55°	9009.6	9305.5	10104.2	12716.8	17773.7	22821.0	25691.1	25640.5	22573.2	20102.5	12762.5
57.5°	4417.0	4710.5	5506.8	7840.4	13166.7	19924.5	24654.2	24921.2	23169.8	19926.9	12647.1
60°	1845.2	1965.5	2239.8	3440.2	7366.4	15057.6	22313.4	22683.9	22804.2	19688.7	12635.0
62.5°	1070.6	1089.8	1118.7	1426.6	2865.3	8631.9	18509.9	19036.7	20882.0	19373.5	12445.0
65°	808.3	815.6	803.5	875.7	1183.6	3274.2	13373.6	14090.5	17429.7	18141.8	11694.4
67.5°	664.0	664.0	632.7	647.1	743.4	1226.9	7383.3	8384.1	12897.3	14910.9	9656.7
70°	529.3	541.3	526.9	507.6	531.7	678.4	2627.1	3257.4	7510.8	8805.1	5631.9
72.5°	401.8	401.8	425.8	411.4	394.5	425.8	916.6	1029.7	3014.4	3671.2	2032.9
75°	310.3	320.0	336.8	322.4	298.3	252.6	440.3	466.7	909.4	854.0	454.7
77.5°	158.8	161.2	214.1	235.8	221.3	154.0	192.5	211.7	295.9	264.6	168.4
80°	96.2	101.0	120.3	185.2	146.8	81.8	79.4	84.2	139.5	120.3	69.8
82.5°	40.9	43.3	67.4	67.4	60.1	31.3	31.3	31.3	67.4	62.5	28.9
85°	0.0	0.0	12.0	9.6	9.6	12.0	12.0	12.0	16.8	24.1	14.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.2	7.2
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°	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2	7270.2
2.5°	7270.2	7116.2	6909.3	6721.7	6469.1	6327.1	6129.9	5968.7	5831.6	5788.2	5769.0
5°	7272.6	7008.0	6565.3	6122.6	5578.9	5150.7	4710.5	4361.6	4075.3	3983.9	3959.9
7.5°	7320.7	6931.0	6214.1	5410.5	4501.2	3750.6	3079.4	2477.9	2198.9	2105.0	2085.8
10°	7385.7	6866.0	5807.5	4556.5	3250.2	2285.5	1619.1	1234.2	1051.3	950.3	964.7
12.5°	7469.9	6813.1	5357.6	3632.7	2150.7	1255.8	890.1	745.8	707.3	688.0	678.4
15°	7582.9	6750.5	4799.5	2716.1	1318.4	808.3	685.6	647.1	632.7	623.1	620.7
17.5°	7698.4	6678.4	4231.7	1910.2	875.7	671.2	615.9	596.6	587.0	579.8	577.4
20°	7821.1	6555.7	3565.3	1315.9	690.5	603.8	567.8	546.1	534.1	522.0	519.6
22.5°	7874.0	6358.4	2927.8	921.4	613.5	555.7	510.0	483.6	469.1	459.5	459.5
25°	7823.5	6038.4	2268.6	700.1	558.1	502.8	457.1	428.2	416.2	406.6	406.6
27.5°	7688.8	5627.1	1655.2	579.8	498.0	447.5	404.2	377.7	368.1	363.3	363.3
30°	7539.6	5107.4	1166.8	498.0	430.6	389.7	353.6	336.8	334.4	329.6	329.6
32.5°	7412.1	4621.5	803.5	437.8	380.1	339.2	315.2	307.9	310.3	305.5	307.9
35°	7342.4	4145.1	596.6	389.7	339.2	300.7	288.7	288.7	288.7	286.3	286.3
37.5°	7371.2	3676.0	486.0	356.1	303.1	274.3	262.2	267.0	271.9	271.9	271.9
40°	7515.6	3259.8	430.6	324.8	271.9	250.2	240.6	247.8	255.0	259.8	259.8
42.5°	7698.4	2923.0	389.7	298.3	250.2	226.1	221.3	228.5	235.8	240.6	240.6
45°	7813.9	2583.8	348.8	264.6	228.5	199.7	199.7	209.3	206.9	209.3	209.3
47.5°	7866.8	2314.3	307.9	228.5	194.9	173.2	175.6	180.4	175.6	180.4	180.4
50°	7736.9	2042.5	271.9	190.1	161.2	151.6	156.4	154.0	154.0	163.6	163.6
52.5°	7498.7	1840.4	240.6	161.2	137.1	134.7	139.5	129.9	132.3	132.3	129.9
55°	7323.1	1724.9	214.1	139.5	117.9	120.3	117.9	101.0	91.4	81.8	79.4
57.5°	7236.5	1679.2	194.9	125.1	105.9	105.9	96.2	69.8	52.9	40.9	36.1
60°	7217.3	1623.9	175.6	108.3	93.8	89.0	69.8	40.9	26.5	19.2	16.8
62.5°	7034.4	1489.2	158.8	86.6	81.8	72.2	43.3	24.1	14.4	9.6	7.2
65°	6435.4	1224.5	141.9	67.4	62.5	52.9	26.5	14.4	7.2	2.4	0.0
67.5°	5119.4	868.5	125.1	50.5	43.3	33.7	16.8	9.6	2.4	0.0	0.0
70°	2951.9	469.1	103.4	36.1	28.9	21.7	12.0	4.8	0.0	0.0	0.0
72.5°	986.4	218.9	79.4	24.1	21.7	16.8	7.2	2.4	0.0	0.0	0.0
75°	216.5	129.9	52.9	16.8	14.4	12.0	4.8	0.0	0.0	0.0	0.0
77.5°	81.8	91.4	26.5	12.0	9.6	7.2	2.4	0.0	0.0	0.0	0.0
80°	31.3	60.1	12.0	7.2	7.2	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.8	24.1	7.2	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.6	12.0	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	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)