

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: P643641

Luminaire Tested: GWS-SA6F-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38912.8 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

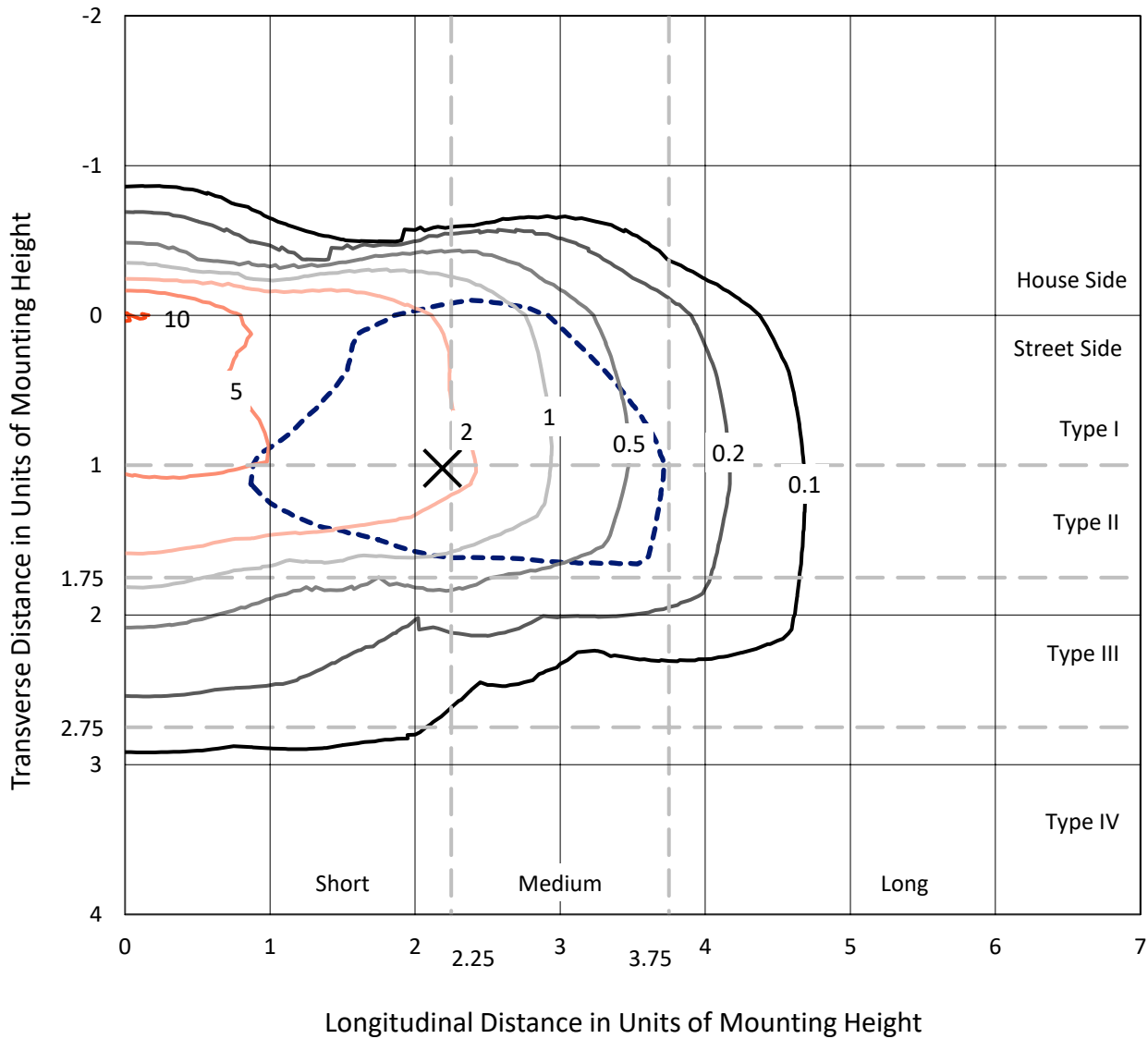
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

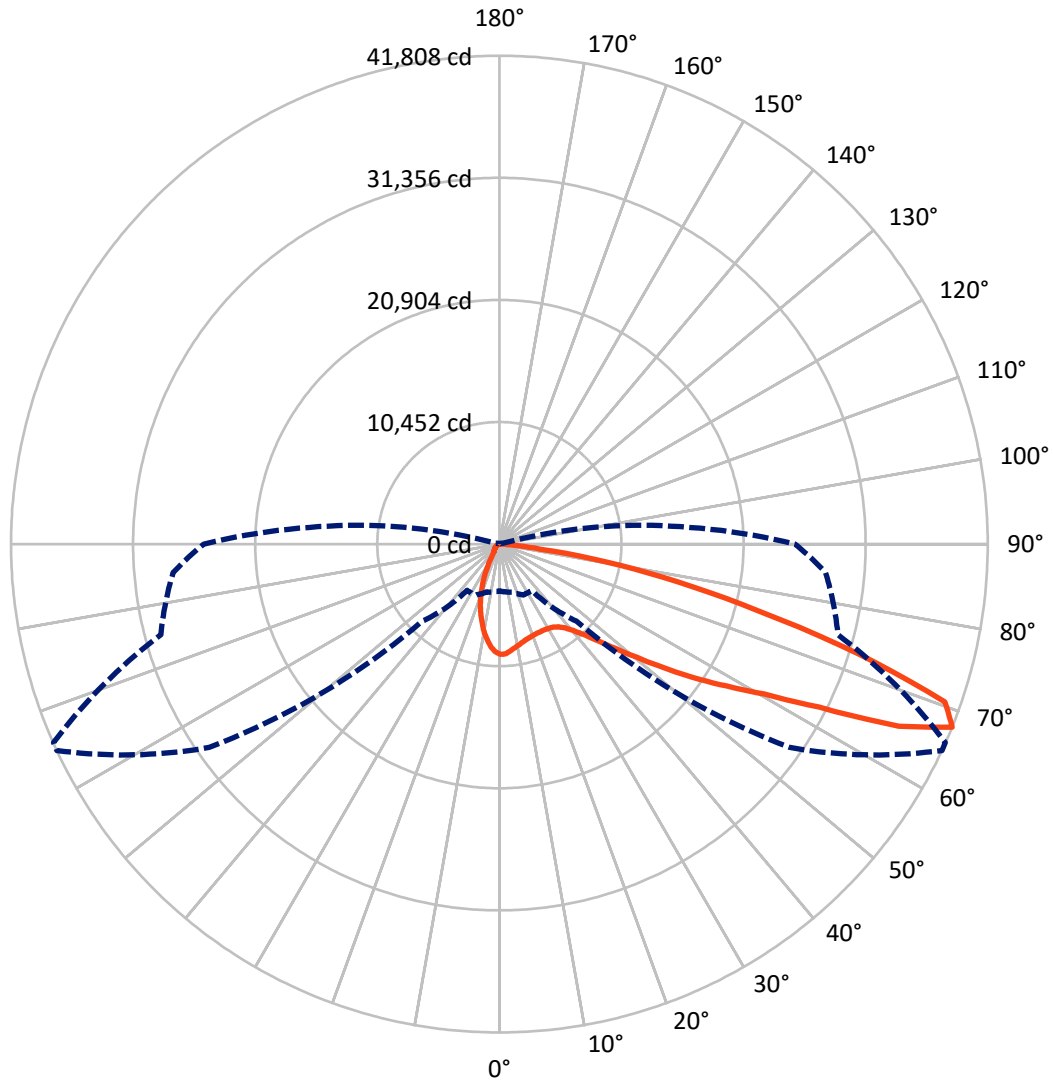
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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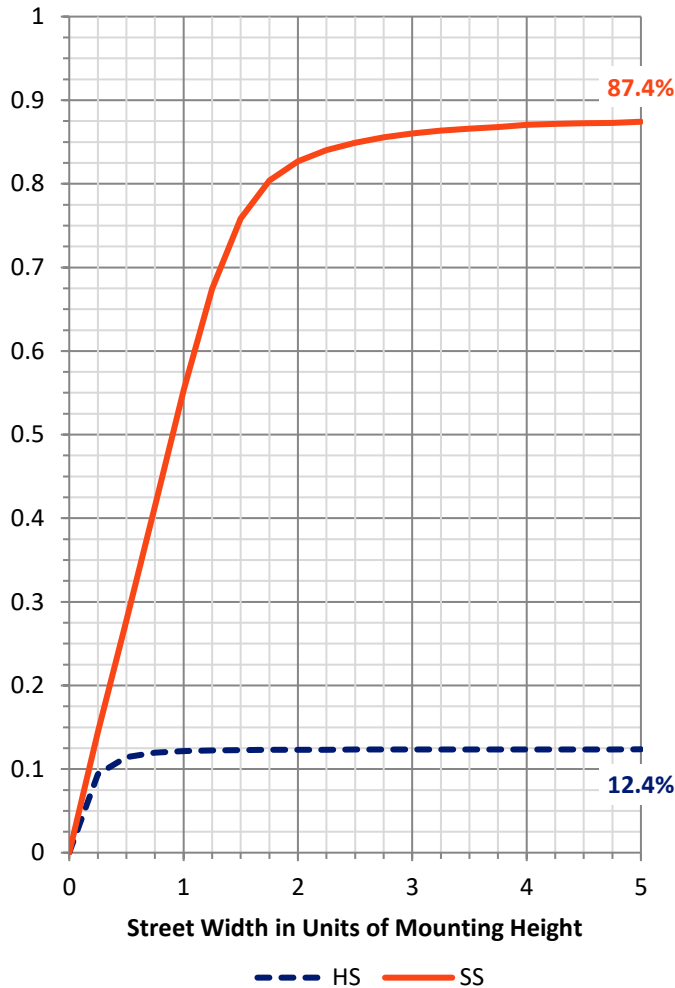
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4859.1	0.0	4859.1
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	34053.7	0.0	34053.7
	% Fixture	87.5	0.0	87.5
Total	Lumens	38912.8	0.0	38912.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.8	2.0
10°-20°	1762.0	4.5
20°-30°	2517.9	6.5
30°-40°	3663.1	9.4
40°-50°	5737.1	14.7
50°-60°	8950.0	23.0
60°-70°	9831.1	25.3
70°-80°	5232.1	13.4
80°-90°	435.6	1.1
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°	38912.8	100.0
0°-180°	38912.8	100.0

Coefficient of Utilization



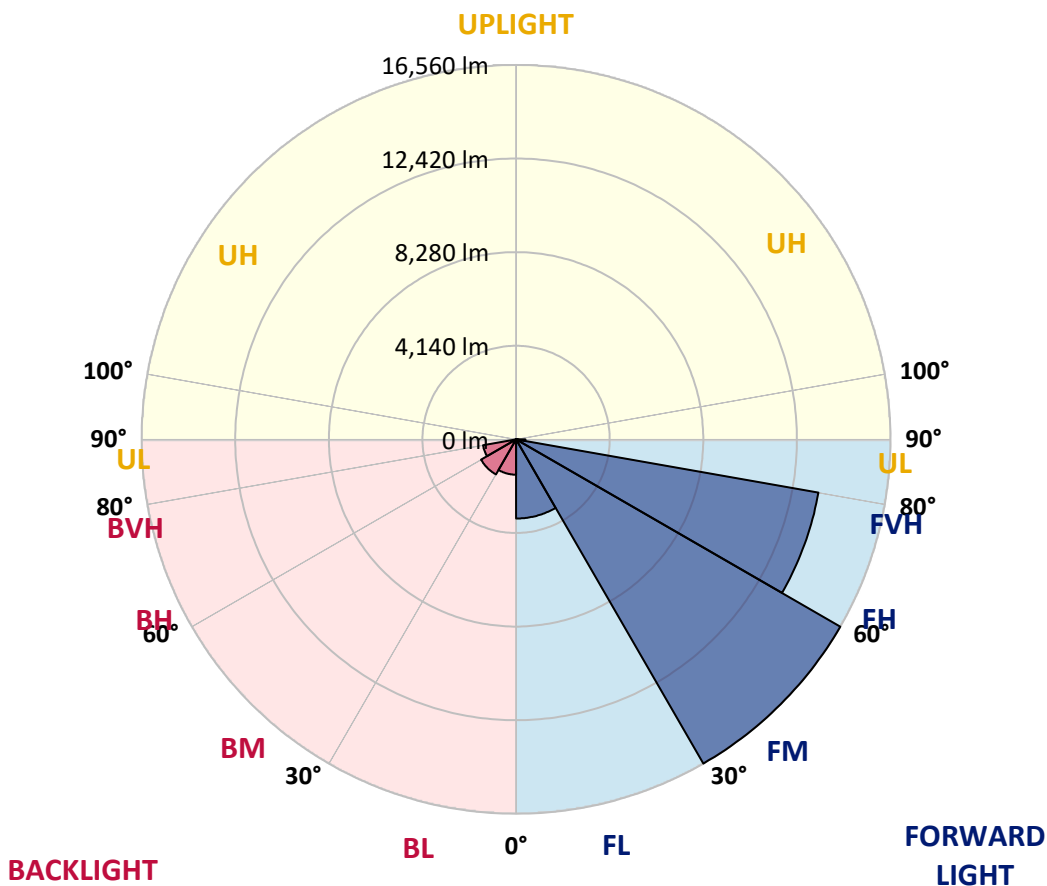
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3501.9	9.0			
FM (30°-60°)	16560.5	42.6			
FH (60°-80°)	13579.1	34.9			G5
FVH (80°-90°)	412.3	1.1			G3/500
BL (0°-30°)	1561.8	4.0	B3/2500		
BM (30°-60°)	1789.8	4.6	B2/2500		
BH (60°-80°)	1484.2	3.8	B3/2500		G3/2500
BVH (80°-90°)	23.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6
2.5°	9110.3	9138.5	9099.8	9194.8	9212.4	9317.9	9377.8	9420.0	9416.5	9469.2	9469.2
5°	8575.5	8603.6	8582.5	8684.5	8765.5	8930.9	9068.1	9226.4	9233.5	9395.4	9455.2
7.5°	8121.5	8125.0	8125.0	8251.7	8357.3	8561.4	8765.5	9008.3	9036.4	9286.3	9444.6
10°	7748.5	7759.1	7762.6	7906.9	8023.0	8269.3	8529.7	8821.8	8853.4	9191.3	9437.6
12.5°	7491.7	7495.2	7509.2	7660.6	7787.2	8044.1	8308.0	8642.3	8684.5	9082.2	9405.9
15°	7368.5	7361.5	7368.5	7495.2	7621.8	7868.2	8139.1	8498.0	8543.8	8990.7	9409.4
17.5°	7361.5	7350.9	7343.9	7438.9	7519.8	7738.0	8012.4	8403.0	8452.3	8948.5	9448.1
20°	7463.5	7456.5	7421.3	7463.5	7481.1	7660.6	7931.5	8329.1	8378.4	8941.4	9532.6
22.5°	7730.9	7713.3	7660.6	7621.8	7526.8	7632.4	7875.2	8276.4	8332.7	8959.0	9641.7
25°	8128.6	8121.5	8054.7	7959.7	7716.9	7674.6	7878.7	8276.4	8329.1	8980.1	9757.8
27.5°	8726.8	8684.5	8600.1	8434.7	8086.3	7840.0	7949.1	8297.5	8350.3	9008.3	9852.8
30°	9335.5	9332.0	9303.9	9135.0	8617.7	8156.7	8096.9	8353.8	8403.0	9032.9	9940.8
32.5°	9965.4	9976.0	10046.3	9916.1	9349.6	8628.2	8364.3	8469.9	8505.1	9082.2	10018.2
35°	10563.6	10584.7	10771.2	10817.0	10239.9	9342.6	8800.7	8702.1	8705.7	9191.3	10120.2
37.5°	11137.2	11207.6	11506.7	11728.4	11348.3	10208.2	9430.5	9096.3	9068.1	9409.4	10275.1
40°	11788.2	11921.9	12298.4	12674.9	12555.3	11351.8	10289.1	9701.5	9641.7	9810.6	10553.1
42.5°	12509.5	12653.8	13153.5	13681.3	13737.6	12734.8	11362.4	10584.7	10482.7	10486.2	11073.8
45°	13283.7	13477.2	14057.8	14817.9	15159.2	14276.0	12685.5	11777.6	11675.6	11524.3	11911.3
47.5°	14300.6	14469.5	15029.0	15905.2	16559.8	15929.9	14420.3	13311.8	13125.3	12903.7	13213.3
50°	15176.8	15324.6	15806.7	16904.6	18266.4	18062.3	16387.3	15229.6	15050.2	14673.6	14930.5
52.5°	15370.4	15486.5	15929.9	17165.0	19571.9	20754.2	18797.7	17548.5	17421.9	16725.1	16823.7
55°	14501.2	14677.2	15074.8	16447.1	19913.2	23386.3	21926.0	20163.1	19899.1	18787.2	18963.1
57.5°	12305.4	12618.6	12991.6	14775.7	18987.8	24786.8	26296.4	22932.4	22693.1	20771.8	20775.3
60°	9018.8	9272.2	9522.0	11154.8	16792.0	24691.8	30262.2	26043.1	25606.7	22394.0	22334.2
62.5°	6559.2	6689.4	6685.8	7266.4	11531.3	23066.1	32345.4	30730.2	29713.2	24128.8	23787.5
65°	5158.6	5155.1	5306.4	5496.5	6439.5	17805.4	32602.2	37574.4	36476.5	26454.8	25744.0
67.5°	4015.0	4092.4	4243.7	4803.2	4838.4	9317.9	30343.1	41807.6	41786.5	30005.3	28034.7
70°	3096.6	3202.2	3416.8	4233.2	4469.0	5214.9	22703.7	40466.9	40808.2	31592.3	26412.6
72.5°	1988.2	1981.1	2297.8	3420.3	4293.0	4345.8	12555.3	32144.8	32531.9	28615.4	21356.0
75°	1112.0	1119.0	1298.5	2093.7	4000.9	4088.9	6217.8	22921.8	23228.0	22309.6	16408.4
77.5°	436.3	450.4	608.8	1101.4	2639.1	3652.6	3694.8	15630.8	15676.5	13825.6	10063.9
80°	175.9	186.5	309.7	682.7	1608.1	2459.7	2639.1	9208.9	9022.4	5352.2	2927.7
82.5°	52.8	56.3	123.2	387.1	841.0	1748.9	1780.5	3532.9	3335.9	1150.7	746.0
85°	3.5	3.5	28.2	119.6	299.1	439.9	1185.9	1150.7	1020.5	288.5	330.8
87.5°	0.0	0.0	3.5	3.5	7.0	14.1	126.7	211.1	214.7	52.8	147.8
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°	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6
2.5°	9469.2	9342.6	9332.0	9233.5	9135.0	9011.8	8867.5	8762.0	8688.1	8557.9	8533.2
5°	9455.2	9286.3	9127.9	8846.4	8533.2	8195.4	7899.8	7625.4	7452.9	7336.8	7287.6
7.5°	9427.0	9212.4	8846.4	8315.1	7790.8	7199.6	6738.6	6316.4	6027.8	5858.9	5785.0
10°	9405.9	9117.4	8522.7	7716.9	6904.0	6087.6	5387.4	4761.0	4412.6	4138.2	4092.4
12.5°	9363.7	8980.1	8107.5	7016.6	5968.0	4884.2	3990.4	3223.3	2691.9	2452.6	2368.2
15°	9321.5	8835.9	7692.2	6277.6	4947.5	3610.3	2526.5	1787.6	1421.6	1309.0	1302.0
17.5°	9314.4	8705.7	7241.8	5577.4	3877.8	2364.7	1439.2	1157.7	1080.3	1052.1	1052.1
20°	9335.5	8596.6	6798.4	4771.6	2825.6	1439.2	1073.3	1002.9	957.1	932.5	932.5
22.5°	9356.6	8484.0	6372.7	3958.7	1875.6	1052.1	946.6	886.8	834.0	805.8	791.7
25°	9370.7	8360.8	5901.1	3142.3	1224.6	914.9	830.5	753.0	689.7	654.5	654.5
27.5°	9367.2	8213.0	5426.1	2343.6	950.1	812.9	710.8	629.9	566.5	527.8	531.3
30°	9339.1	8051.1	4933.4	1636.3	830.5	710.8	608.8	524.3	461.0	429.3	425.8
32.5°	9317.9	7878.7	4363.4	1150.7	746.0	622.8	517.3	436.3	383.6	358.9	355.4
35°	9293.3	7709.8	3821.5	876.2	672.1	538.4	436.3	369.5	327.3	306.1	306.1
37.5°	9300.3	7533.9	3233.8	753.0	598.2	468.0	373.0	316.7	281.5	260.4	256.9
40°	9409.4	7428.3	2656.7	682.7	531.3	404.7	323.7	274.5	239.3	218.2	214.7
42.5°	9680.4	7431.8	2104.3	629.9	471.5	344.8	281.5	235.8	204.1	179.5	175.9
45°	10222.3	7579.6	1615.2	573.6	408.2	299.1	242.8	200.6	168.9	147.8	144.3
47.5°	11109.0	8019.5	1224.6	524.3	355.4	260.4	207.6	168.9	140.8	123.2	119.6
50°	12520.1	8814.7	964.2	464.5	299.1	225.2	175.9	140.8	116.1	98.5	95.0
52.5°	14216.2	10007.6	826.9	411.7	256.9	197.1	151.3	116.1	95.0	80.9	77.4
55°	16165.6	11432.8	763.6	358.9	218.2	168.9	123.2	95.0	77.4	66.9	59.8
57.5°	17953.2	12717.2	760.1	306.1	186.5	144.3	102.0	80.9	66.9	52.8	49.3
60°	19695.1	13790.4	714.3	253.4	161.9	119.6	88.0	66.9	56.3	45.7	42.2
62.5°	21275.0	14663.1	598.2	204.1	137.2	98.5	73.9	59.8	49.3	38.7	38.7
65°	23259.7	15775.0	457.5	165.4	112.6	80.9	63.3	52.8	45.7	35.2	35.2
67.5°	25311.2	16362.7	327.3	137.2	91.5	70.4	56.3	49.3	38.7	31.7	31.7
70°	22925.4	13825.6	235.8	112.6	77.4	59.8	49.3	45.7	38.7	31.7	28.2
72.5°	17904.0	9968.9	175.9	88.0	66.9	56.3	45.7	42.2	35.2	28.2	28.2
75°	13276.7	5813.2	133.7	70.4	52.8	45.7	45.7	42.2	35.2	28.2	24.6
77.5°	7217.2	2026.9	102.0	56.3	42.2	35.2	38.7	38.7	31.7	24.6	21.1
80°	1910.7	556.0	70.4	42.2	35.2	28.2	28.2	35.2	28.2	21.1	21.1
82.5°	556.0	161.9	49.3	35.2	28.2	24.6	24.6	24.6	21.1	17.6	14.1
85°	271.0	59.8	35.2	28.2	24.6	21.1	17.6	17.6	14.1	10.6	10.6
87.5°	119.6	24.6	28.2	24.6	24.6	17.6	14.1	10.6	10.6	7.0	3.5
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)