

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: P643780

Luminaire Tested: GWS-SA6F-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31930.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

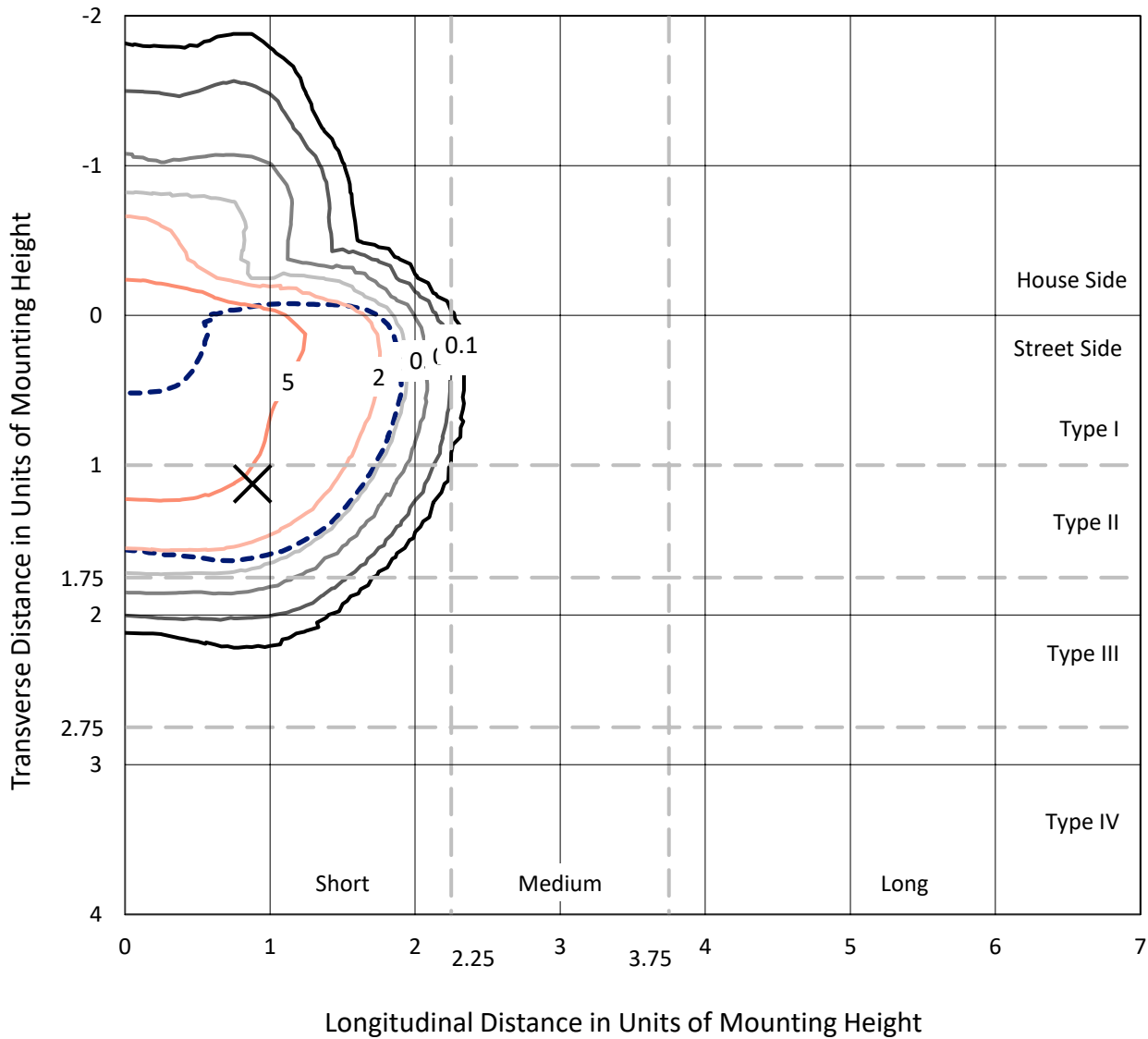
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

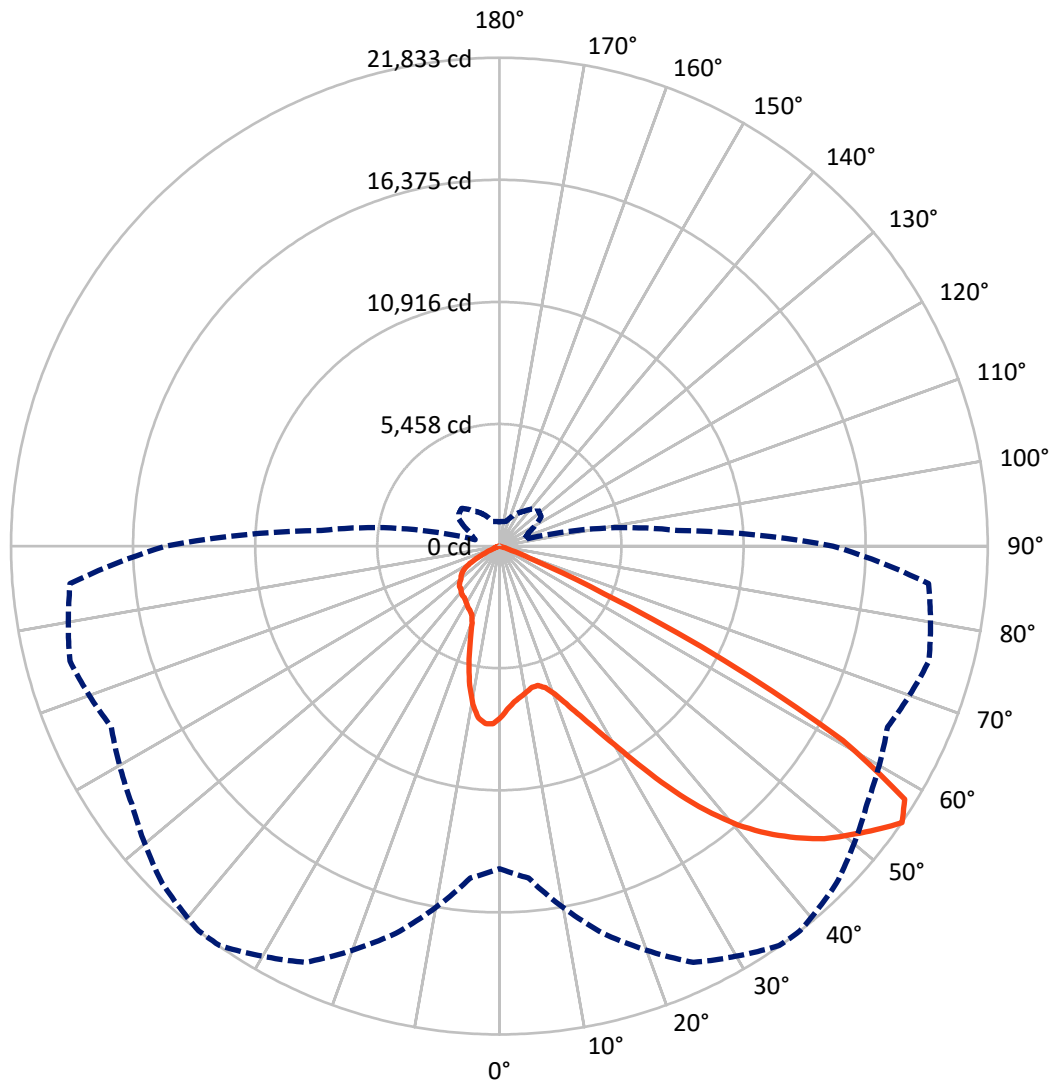
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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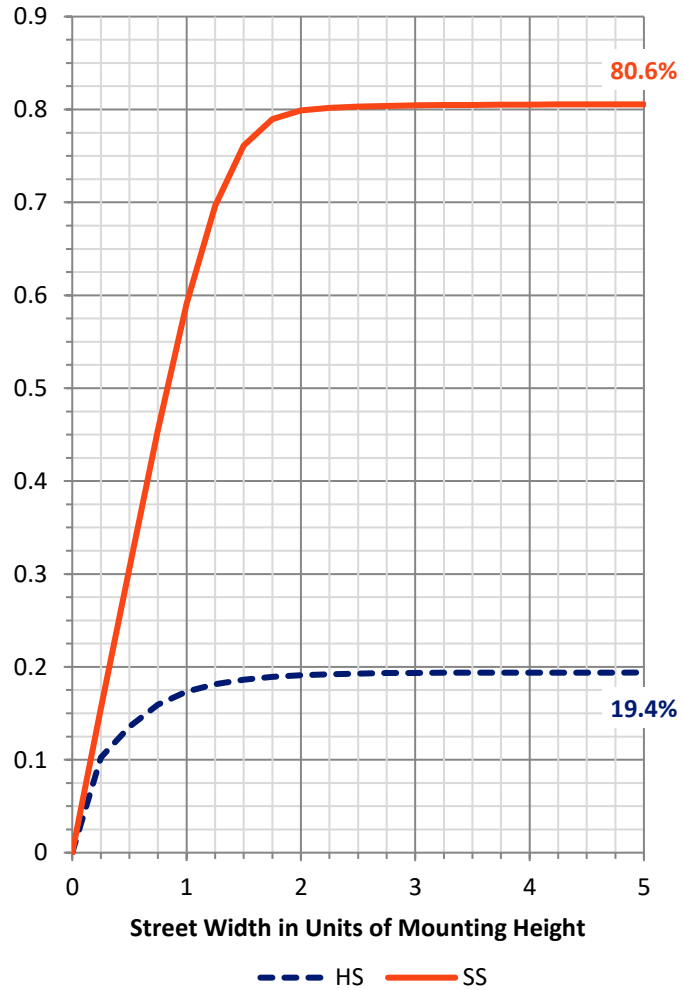
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6221.1	0.0	6221.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25709.5	0.0	25709.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	31930.6	0.0	31930.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.0	2.2
10°-20°	1906.1	6.0
20°-30°	3270.9	10.2
30°-40°	5425.0	17.0
40°-50°	7975.0	25.0
50°-60°	9319.0	29.2
60°-70°	3158.8	9.9
70°-80°	161.5	0.5
80°-90°	6.3	0.0
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°	31930.6	100.0
0°-180°	31930.6	100.0

Coefficient of Utilization



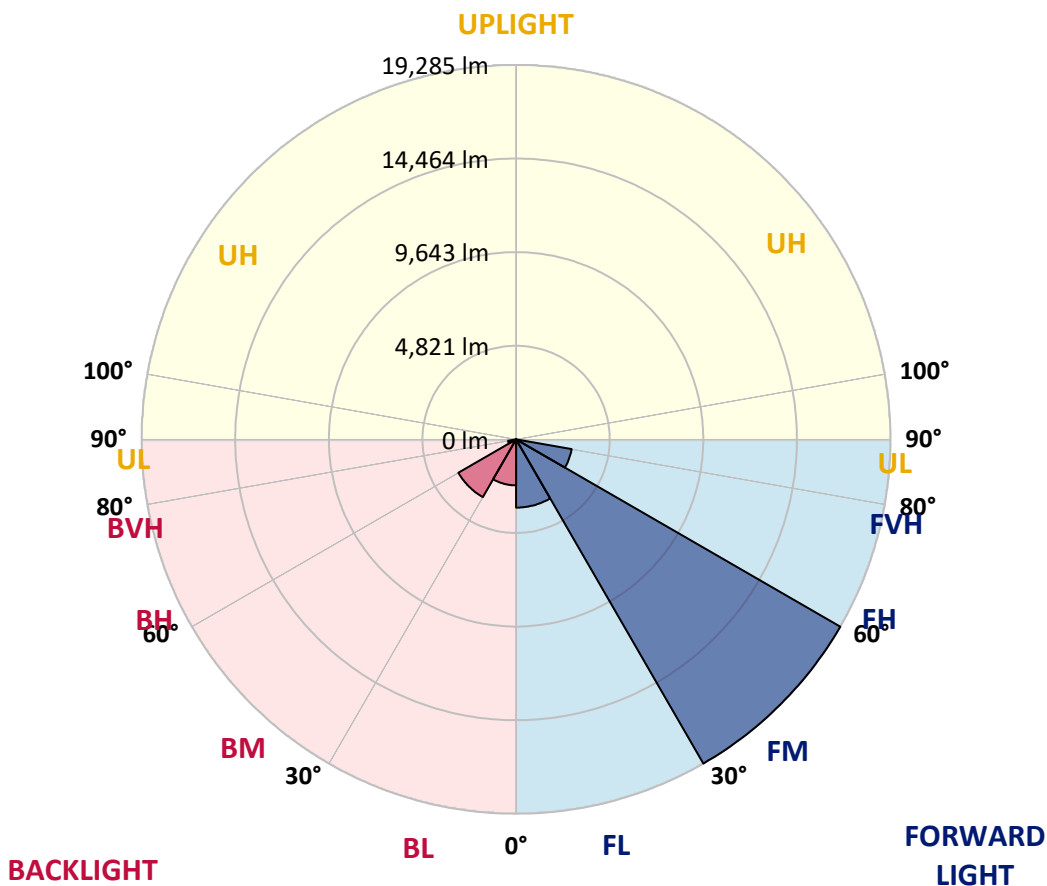
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3514.8	11.0			
FM (30°-60°)	19285.2	60.4			
FH (60°-80°)	2906.2	9.1			G2/5000
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2370.2	7.4	B3/2500		
BM (30°-60°)	3433.8	10.8	B3/5000		
BH (60°-80°)	414.1	1.3	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2
2.5°	7131.6	7117.0	7146.2	7204.6	7259.4	7277.6	7332.4	7409.0	7456.5	7569.6	7660.9
5°	6810.5	6803.2	6832.4	6883.5	6956.4	6982.0	7065.9	7193.7	7321.4	7518.5	7711.9
7.5°	6518.5	6514.8	6558.6	6671.8	6777.6	6810.5	6912.7	7069.6	7241.1	7544.1	7828.7
10°	6135.3	6138.9	6222.8	6383.4	6576.9	6642.6	6806.8	7033.1	7255.7	7646.3	8040.4
12.5°	6011.2	6018.5	6062.3	6186.3	6398.0	6482.0	6711.9	7055.0	7339.7	7792.2	8314.2
15°	6314.1	6314.1	6277.6	6292.2	6387.1	6463.7	6704.6	7128.0	7482.0	7967.4	8584.2
17.5°	6901.7	6879.8	6788.6	6664.5	6631.6	6657.2	6850.6	7284.9	7682.8	8171.8	8890.8
20°	7697.3	7704.6	7525.8	7266.7	7058.6	7055.0	7171.8	7562.3	7971.1	8416.4	9223.0
22.5°	8660.9	8631.7	8394.5	8040.4	7679.1	7649.9	7697.3	7985.7	8387.2	8803.2	9631.7
25°	9777.7	9763.1	9427.3	8952.9	8474.7	8405.4	8405.4	8690.1	8982.1	9354.3	10120.8
27.5°	10945.6	10945.6	10620.8	10073.3	9438.3	9314.2	9295.9	9631.7	9825.2	9898.2	10533.2
30°	12146.4	12131.8	11810.6	11248.6	10569.7	10442.0	10390.9	10639.1	10777.7	10558.8	11047.8
32.5°	13365.4	13391.0	13066.2	12544.2	11938.4	11854.4	11697.5	11697.5	11810.6	11504.1	11858.1
35°	14675.7	14668.4	14412.9	14058.9	13540.6	13445.7	13186.6	12781.5	12953.0	12818.0	12978.6
37.5°	15832.7	15887.4	15763.3	15500.5	15080.8	14985.9	14558.9	13825.3	13956.7	14168.4	14310.7
40°	17007.9	17051.7	17175.8	17091.8	16562.6	16387.4	15628.3	14423.9	14569.9	15296.2	15704.9
42.5°	18161.2	18183.1	18435.0	18573.6	17865.6	17559.0	16438.5	14788.8	14942.1	16179.4	16894.8
45°	18894.8	18942.3	19358.3	19781.7	19015.3	18595.5	17142.9	15256.0	15321.7	16792.6	17774.3
47.5°	18865.6	18975.1	19756.2	20526.3	20004.4	19551.8	17989.7	16004.2	15894.7	17369.2	18354.7
50°	18278.0	18409.4	19529.9	20752.6	20716.1	20296.3	18931.3	17088.2	16745.1	17880.2	18427.7
52.5°	17059.0	17438.6	19132.1	20781.7	21289.1	21077.4	20095.6	18548.1	17894.8	18613.8	18544.4
55°	14423.9	14891.0	17924.0	20533.6	21807.3	21832.9	21318.3	20070.0	19143.0	19876.6	19263.4
57.5°	10949.3	11321.6	13796.1	18278.0	20949.6	21369.4	21792.7	20873.0	19913.1	20738.0	19431.3
60°	6598.8	7029.4	8639.0	13412.9	16920.3	17635.7	19296.3	19117.5	17960.5	18314.5	15934.9
62.5°	2675.3	2901.6	3989.2	7390.8	10650.0	11317.9	12909.2	13179.3	12894.6	12533.3	9664.6
65°	978.1	1069.4	1598.6	3054.9	4898.0	5142.5	5982.0	6460.1	6854.3	5836.0	3595.0
67.5°	605.9	664.3	1040.2	1569.4	1781.1	1657.0	1686.2	2011.0	1919.8	1186.2	642.4
70°	448.9	496.4	813.9	1087.6	719.0	554.8	375.9	401.5	361.3	317.5	313.9
72.5°	310.2	354.0	609.5	642.4	277.4	197.1	138.7	193.4	219.0	215.3	222.6
75°	204.4	237.2	383.2	251.8	69.3	54.7	47.4	102.2	131.4	131.4	135.0
77.5°	120.4	138.7	135.0	51.1	14.6	14.6	10.9	18.2	29.2	32.8	40.1
80°	14.6	10.9	7.3	7.3	7.3	7.3	7.3	7.3	10.9	10.9	10.9
82.5°	3.6	3.6	3.6	7.3	7.3	7.3	7.3	7.3	7.3	10.9	10.9
85°	0.0	0.0	3.6	3.6	7.3	7.3	7.3	7.3	7.3	10.9	10.9
87.5°	0.0	0.0	3.6	3.6	7.3	7.3	7.3	7.3	7.3	10.9	10.9
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°	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2	7657.2
2.5°	7730.2	7704.6	7810.5	7887.1	7949.2	7978.4	7938.2	7934.6	7934.6	7854.3	7832.4
5°	7821.4	7832.4	7982.0	8047.7	8058.7	8022.2	7930.9	7868.9	7832.4	7748.4	7701.0
7.5°	7996.6	8033.1	8175.5	8164.5	8066.0	7898.1	7657.2	7471.1	7350.6	7219.2	7138.9
10°	8248.5	8317.8	8405.4	8252.1	7938.2	7511.2	7014.8	6660.8	6449.1	6299.5	6208.2
12.5°	8555.0	8624.4	8595.2	8233.9	7580.6	6817.8	6179.0	5668.1	5423.5	5288.5	5193.6
15°	8865.3	8909.1	8719.3	8014.9	6949.1	5923.6	5211.9	4704.5	4405.3	4295.8	4215.5
17.5°	9182.8	9171.9	8741.2	7584.2	6106.1	4916.2	4215.5	3868.7	3784.8	3766.6	3759.3
20°	9514.9	9416.4	8653.6	6967.4	5091.4	3919.8	3522.0	3543.9	3697.2	3770.2	3784.8
22.5°	9894.5	9646.3	8434.6	6131.6	4054.9	3266.5	3306.7	3522.0	3730.1	3828.6	3843.2
25°	10299.6	9858.0	8069.6	5058.6	3197.2	3003.8	3241.0	3489.2	3711.8	3832.3	3846.9
27.5°	10566.1	9909.1	7471.1	3978.2	2744.6	2901.6	3153.4	3390.6	3620.6	3752.0	3770.2
30°	10854.4	9887.2	6657.2	3065.8	2591.3	2814.0	3033.0	3248.3	3460.0	3606.0	3620.6
32.5°	11277.8	9872.6	5664.4	2489.1	2529.3	2744.6	2905.2	3084.0	3230.0	3314.0	3303.0
35°	11832.5	9854.4	4507.5	2244.6	2492.8	2689.9	2817.6	2901.6	2741.0	2689.9	2700.8
37.5°	12544.2	9898.2	3533.0	2142.4	2481.8	2675.3	2784.8	2543.9	2295.7	2200.8	2186.2
40°	13332.6	10011.3	2693.5	2102.3	2518.3	2711.8	2660.7	2262.9	1956.3	1770.1	1730.0
42.5°	14124.6	10135.4	2131.5	2087.7	2580.4	2814.0	2456.3	2058.5	1598.6	1492.8	1478.2
45°	14712.2	10113.5	1843.1	2062.1	2635.1	2872.4	2401.5	1766.5	1427.1	1379.6	1383.3
47.5°	15007.8	9872.6	1686.2	2003.7	2657.0	2814.0	2266.5	1646.0	1310.3	1361.4	1405.2
50°	14850.9	9248.5	1540.2	1890.6	2609.6	2737.3	2051.2	1554.8	1251.9	1463.6	1562.1
52.5°	14661.1	8482.0	1379.6	1715.4	2496.4	2631.5	1967.2	1529.3	1215.4	1412.5	1485.5
55°	14912.9	7996.6	1116.8	1445.3	2273.8	2383.3	1901.5	1525.6	1131.4	1098.6	1087.6
57.5°	14558.9	7029.4	799.3	1040.2	1744.6	1886.9	1854.1	1500.1	1003.7	1000.0	1014.6
60°	11252.2	4288.5	547.5	660.6	1069.4	1204.4	1682.5	1434.4	865.0	795.6	799.3
62.5°	6394.4	1824.9	375.9	408.8	547.5	649.7	1284.7	1303.0	799.3	759.2	799.3
65°	2226.4	653.3	292.0	273.7	302.9	346.7	737.3	1007.3	726.3	657.0	664.3
67.5°	459.9	324.8	259.1	226.3	226.3	226.3	375.9	627.8	598.6	521.9	529.2
70°	292.0	277.4	226.3	193.4	186.1	171.5	215.3	346.7	412.4	379.6	383.2
72.5°	215.3	211.7	178.8	156.9	138.7	124.1	135.0	171.5	211.7	219.0	222.6
75°	131.4	135.0	116.8	98.5	87.6	76.6	80.3	80.3	80.3	73.0	80.3
77.5°	40.1	43.8	36.5	29.2	25.5	25.5	25.5	21.9	18.2	10.9	10.9
80°	10.9	10.9	10.9	10.9	10.9	7.3	7.3	3.6	3.6	0.0	0.0
82.5°	10.9	10.9	10.9	10.9	7.3	7.3	3.6	3.6	0.0	0.0	0.0
85°	10.9	10.9	10.9	10.9	7.3	7.3	3.6	3.6	0.0	0.0	0.0
87.5°	10.9	10.9	10.9	10.9	7.3	7.3	3.6	3.6	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)