

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: P643671

Luminaire Tested: GWS-SA6F-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43037.1 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

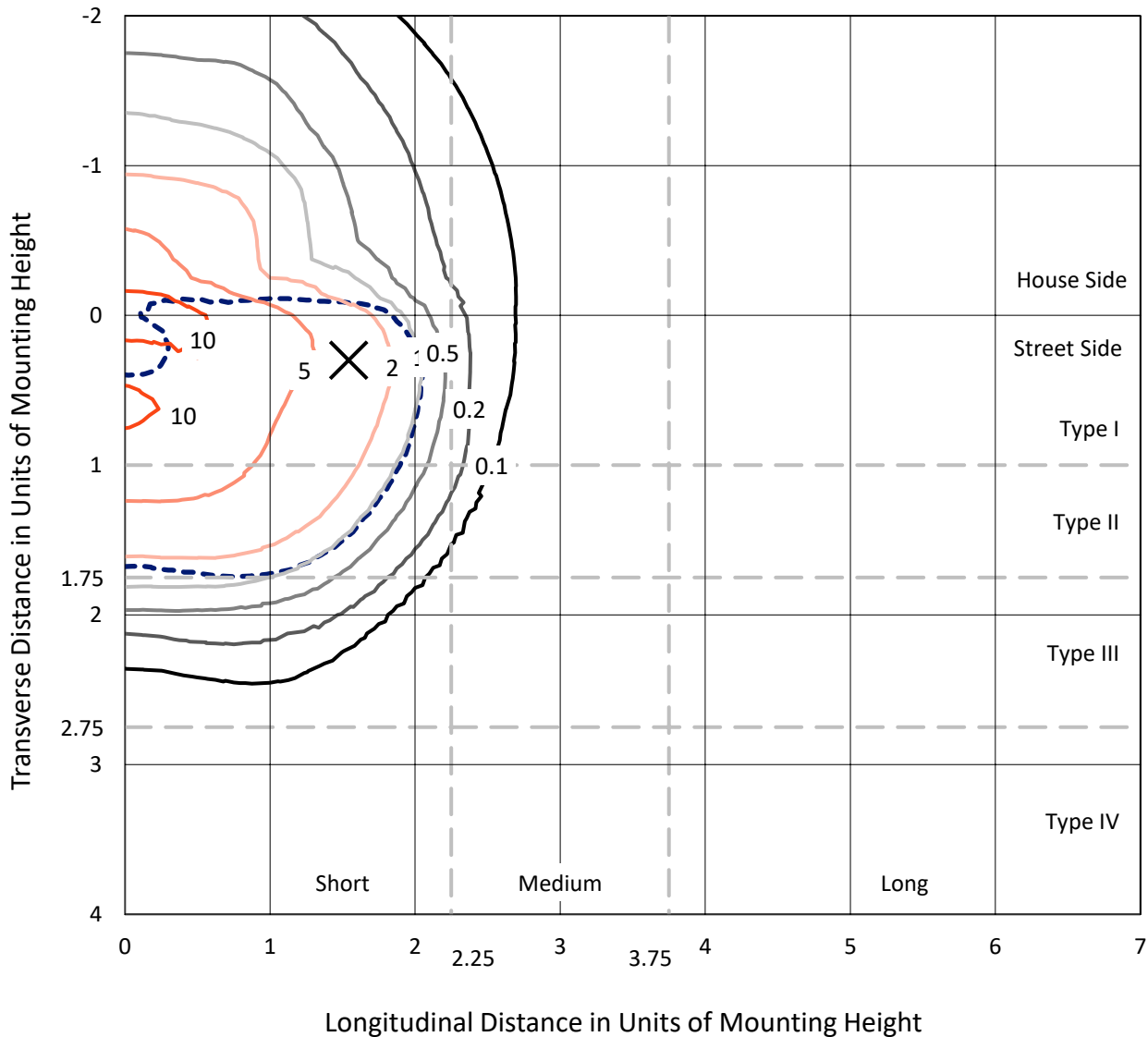
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

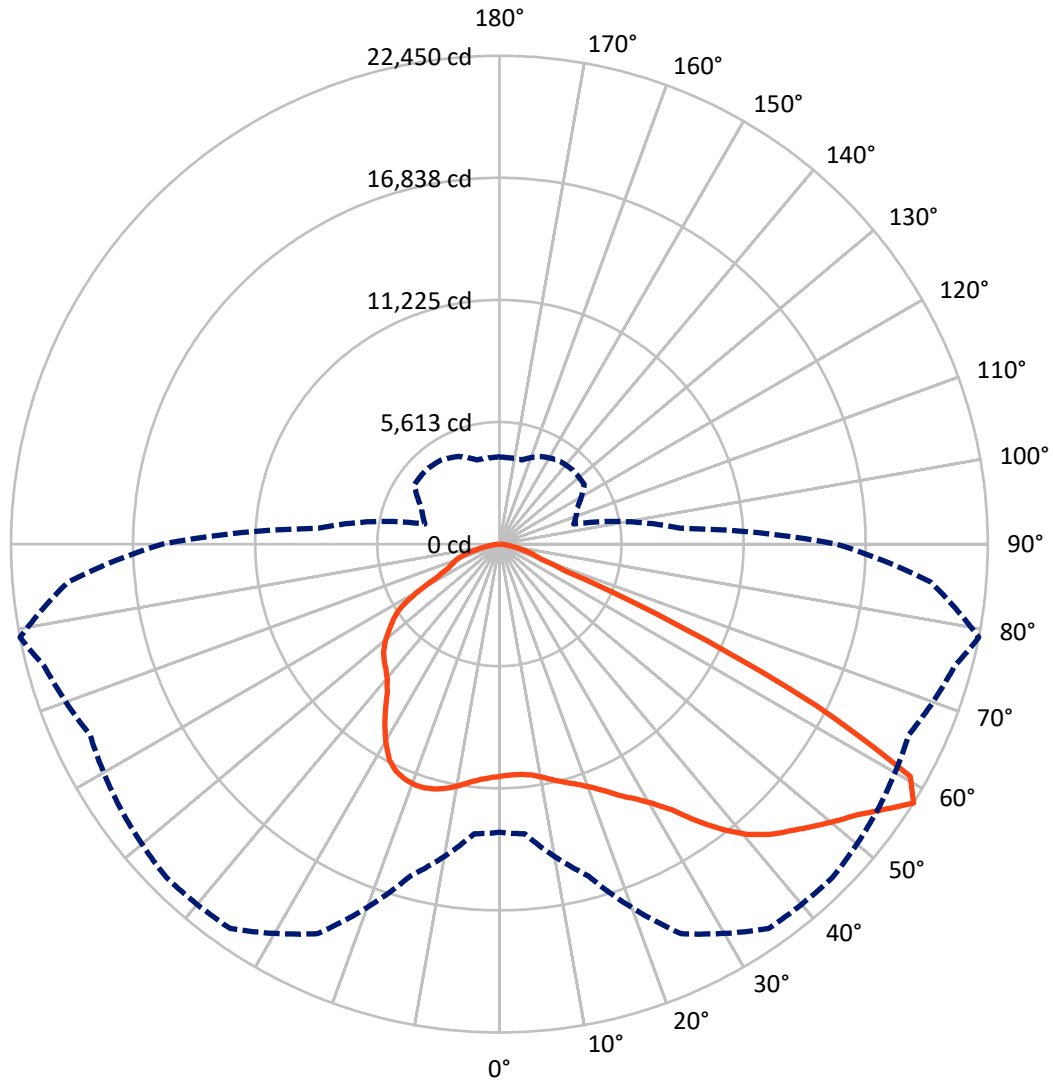
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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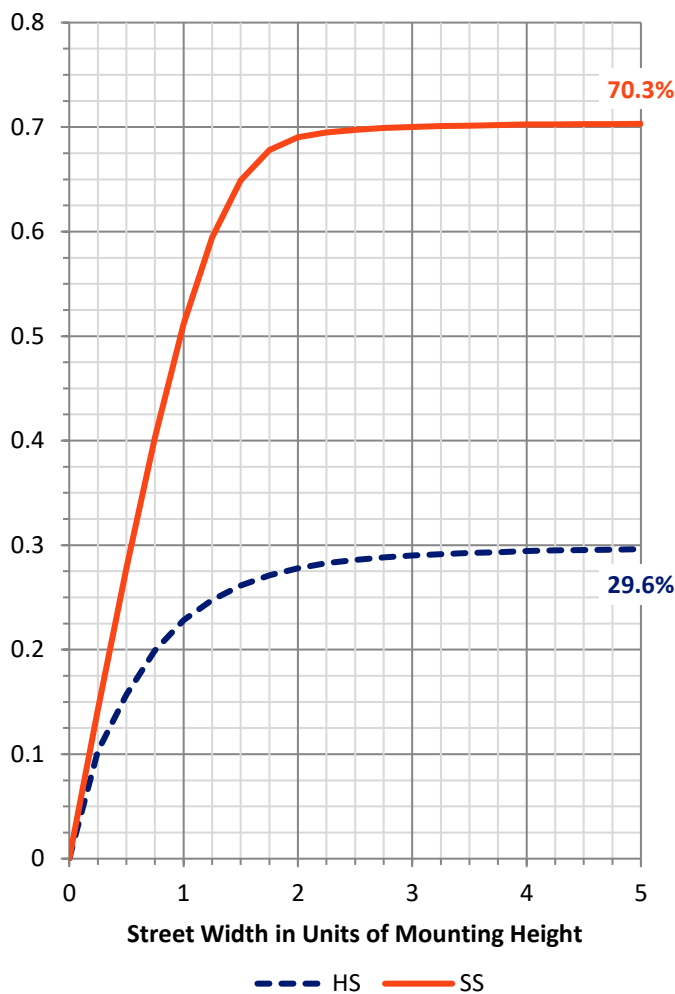
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12793.0	0.0	12793.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	30244.2	0.0	30244.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	43037.1	0.0	43037.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.7	2.3
10°-20°	2744.9	6.4
20°-30°	4652.7	10.8
30°-40°	7121.6	16.5
40°-50°	9495.9	22.1
50°-60°	10967.1	25.5
60°-70°	5698.9	13.2
70°-80°	1211.4	2.8
80°-90°	156.9	0.4
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°	43037.1	100.0
0°-180°	43037.1	100.0

Coefficient of Utilization



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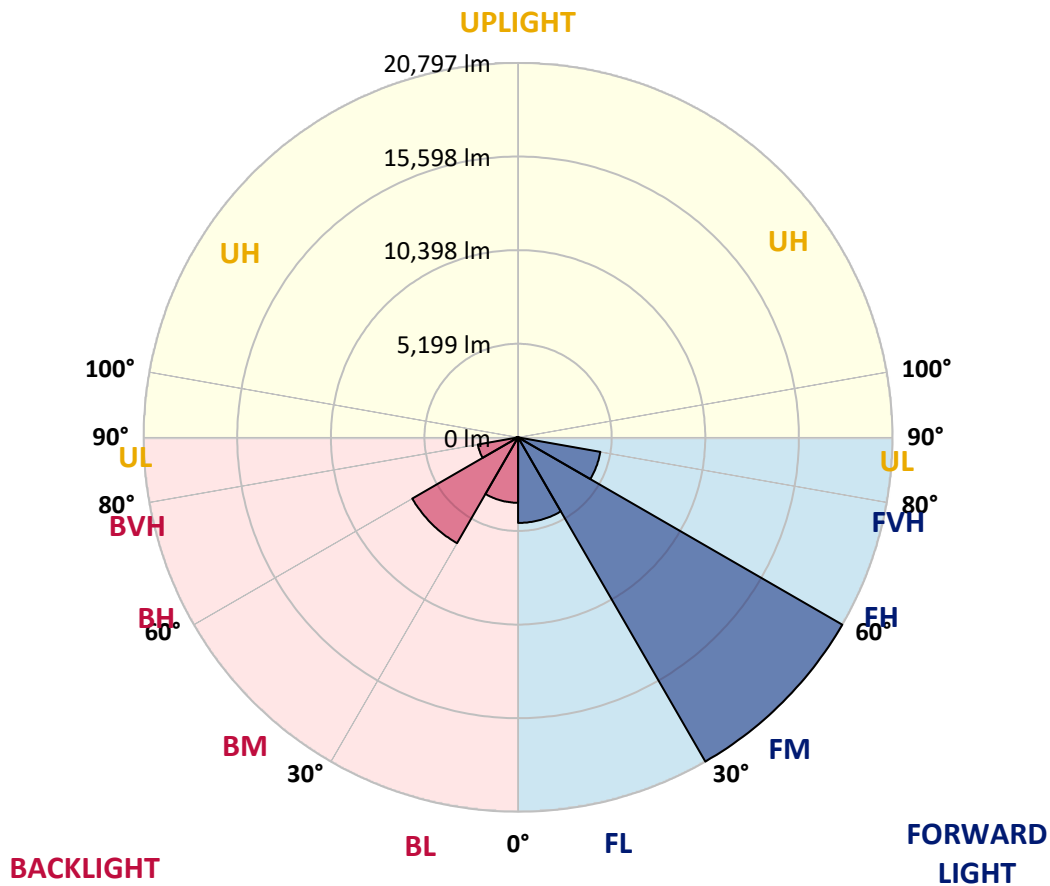
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4752.3	11.0			
FM (30°-60°)	20796.7	48.3			
FH (60°-80°)	4640.5	10.8			G2/5000
FVH (80°-90°)	54.7	0.1			G1/100
BL (0°-30°)	3633.1	8.4	B4/5000		
BM (30°-60°)	6787.9	15.8	B4/8500		
BH (60°-80°)	2269.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	102.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6
2.5°	10180.0	10158.9	10165.9	10194.1	10299.6	10377.0	10458.0	10531.9	10602.2	10623.4	10641.0
5°	9817.5	9778.8	9789.4	9835.1	9958.3	10088.5	10232.8	10408.7	10577.6	10633.9	10707.8
7.5°	9560.7	9553.6	9571.2	9641.6	9771.8	9895.0	10081.5	10331.3	10623.4	10718.4	10848.6
10°	9219.3	9205.3	9275.6	9419.9	9634.6	9831.6	10053.3	10348.9	10757.1	10897.8	11098.4
12.5°	8948.4	8941.4	9015.3	9215.8	9490.3	9803.5	10109.6	10440.4	10936.5	11130.1	11376.4
15°	9106.7	9075.1	9078.6	9219.3	9465.7	9835.1	10250.4	10605.8	11116.0	11362.3	11679.0
17.5°	9567.7	9511.4	9469.2	9493.8	9634.6	10018.1	10465.0	10827.5	11323.6	11612.2	11999.2
20°	10204.6	10173.0	10056.8	9979.4	10011.1	10348.9	10802.8	11140.6	11594.6	11918.3	12333.5
22.5°	11059.7	10982.3	10823.9	10700.8	10605.8	10869.7	11288.4	11580.5	11971.1	12308.9	12741.7
25°	12118.9	12006.3	11756.4	11562.9	11358.8	11629.7	12002.7	12224.4	12488.3	12801.5	13213.2
27.5°	13199.1	13104.1	12826.2	12565.8	12312.4	12481.3	12924.7	13051.4	13023.2	13251.9	13603.8
30°	14349.8	14230.2	13966.3	13684.7	13357.5	13466.6	13864.2	13927.5	13628.4	13818.5	14057.7
32.5°	15563.8	15447.7	15219.0	14891.7	14522.2	14564.5	14673.5	14733.4	14448.3	14557.4	14740.4
35°	16798.9	16689.8	16457.6	16133.9	15862.9	15606.0	15331.6	15570.8	15405.5	15616.6	15602.5
37.5°	17928.5	17819.4	17675.1	17425.3	16960.8	16454.1	15820.7	16116.3	16373.1	16640.6	16594.8
40°	18692.1	18618.2	18653.3	18614.6	18016.4	17013.6	16060.0	16383.7	17083.9	17541.4	17516.8
42.5°	19350.1	19276.2	19480.3	19628.1	18924.3	17530.8	16176.1	16485.7	17537.9	18252.2	18217.0
45°	19642.1	19621.0	19958.8	20426.8	19754.7	18079.8	16475.2	16696.9	17882.7	18797.6	18663.9
47.5°	19293.8	19367.7	20032.7	20824.5	20444.4	18730.8	17087.5	17143.8	18333.1	19388.8	19012.3
50°	18600.6	18762.4	19659.7	20835.0	20947.6	19466.2	17935.5	17794.7	18938.4	20018.7	19195.2
52.5°	17590.7	17759.6	19223.4	20754.1	21236.2	20317.8	19065.0	18864.5	19702.0	20648.5	19226.9
55°	15271.7	15500.5	18224.0	20571.1	21517.7	21091.9	20338.9	19930.7	20687.2	21514.2	19540.1
57.5°	13248.4	13368.1	15789.0	19758.3	21574.0	21661.9	21246.7	20761.1	21665.5	22450.2	19892.0
60°	9722.5	9750.7	11928.9	16348.5	19846.2	21331.2	21172.8	20451.5	21201.0	21700.7	18280.3
62.5°	5492.9	5496.4	7234.7	10911.9	14824.9	17386.6	17485.1	16848.2	16218.3	16366.1	12724.1
65°	2062.0	2255.6	3304.2	5362.7	8547.2	10264.4	10672.6	10820.4	9771.8	9120.8	6823.0
67.5°	1379.4	1425.1	1928.3	2758.8	3803.9	4391.5	4912.3	4926.4	3603.3	3212.7	2688.4
70°	1052.1	1097.9	1516.6	1974.1	1928.3	1780.5	1924.8	1872.0	1935.4	1988.1	2044.4
72.5°	784.7	830.4	1175.3	1393.5	1157.7	1140.1	1291.4	1435.7	1569.4	1625.7	1713.7
75°	520.8	556.0	791.7	746.0	640.4	756.5	943.0	1087.3	1164.7	1231.6	1298.5
77.5°	330.8	355.4	422.3	341.3	355.4	443.4	548.9	679.1	753.0	819.9	855.1
80°	151.3	147.8	144.3	161.9	200.6	260.4	330.8	408.2	464.5	492.6	513.7
82.5°	59.8	66.9	73.9	88.0	109.1	140.8	186.5	239.3	285.0	292.1	309.7
85°	24.6	28.2	31.7	38.7	49.3	63.3	77.4	109.1	137.2	147.8	158.3
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	10.6	17.6	31.7	35.2	38.7
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°	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6	10665.6
2.5°	10736.0	10690.2	10767.6	10820.4	10869.7	10816.9	10799.3	10753.6	10746.5	10746.5	10771.2
5°	10834.5	10802.8	10883.8	10915.4	10911.9	10795.8	10725.4	10633.9	10588.2	10588.2	10595.2
7.5°	11010.4	10992.8	11038.6	10989.3	10876.7	10641.0	10408.7	10215.2	10085.0	10018.1	10039.2
10°	11302.5	11281.4	11242.7	11059.7	10736.0	10246.8	9771.8	9419.9	9208.8	9089.2	9096.2
12.5°	11587.5	11552.3	11415.1	11010.4	10345.4	9567.7	8944.9	8550.8	8318.5	8177.8	8146.1
15°	11900.7	11809.2	11513.6	10757.1	9708.5	8737.3	8086.3	7660.5	7410.7	7326.2	7322.7
17.5°	12199.8	12037.9	11503.1	10306.7	8944.9	7868.1	7213.6	6949.7	6907.5	6946.2	6956.7
20°	12502.4	12242.0	11386.9	9683.8	8037.0	7002.5	6664.7	6773.8	6932.1	7037.7	7062.3
22.5°	12815.6	12410.9	11123.0	8881.5	7079.9	6418.4	6559.1	6798.4	6995.4	7136.2	7150.3
25°	13167.5	12569.3	10728.9	7899.8	6312.8	6256.5	6534.5	6787.8	6999.0	7160.8	7189.0
27.5°	13368.1	12572.8	10176.5	6889.9	5960.9	6193.1	6474.7	6713.9	6925.1	7101.0	7132.7
30°	13565.1	12477.8	9300.3	6070.0	5858.9	6119.3	6372.6	6594.3	6794.9	6967.3	7006.0
32.5°	13843.1	12389.8	8290.4	5598.5	5799.0	6048.9	6256.5	6453.5	6608.4	6685.8	6706.9
35°	14187.9	12277.2	7217.1	5394.4	5760.3	5992.6	6175.6	6281.1	6080.5	6038.3	6084.1
37.5°	14670.0	12171.6	6147.4	5306.4	5735.7	5971.5	6133.3	5862.4	5616.1	5517.5	5552.7
40°	15190.8	12111.8	5422.5	5236.0	5746.3	5992.6	5957.4	5556.2	5200.8	4993.2	4986.2
42.5°	15634.2	12020.3	4958.0	5190.3	5774.4	6073.5	5718.1	5285.3	4757.5	4634.3	4637.8
45°	15933.3	11788.1	4711.7	5141.0	5799.0	6091.1	5605.5	4912.3	4535.8	4458.4	4454.8
47.5°	16056.4	11365.8	4553.4	5063.6	5795.5	5946.8	5376.8	4757.5	4380.9	4359.8	4373.9
50°	15975.5	10672.6	4391.5	4912.3	5711.1	5795.5	5112.9	4620.2	4275.4	4391.5	4476.0
52.5°	15676.4	9775.3	4198.0	4704.7	5559.8	5623.1	4979.2	4535.8	4198.0	4352.8	4419.7
55°	15599.0	9046.9	3951.7	4433.7	5334.6	5317.0	4838.4	4493.6	4145.2	4085.4	4095.9
57.5°	15496.9	8336.1	3543.5	3948.1	4764.5	4792.7	4704.7	4444.3	4008.0	3990.4	4008.0
60°	13463.1	6390.2	3159.9	3406.2	3912.9	4064.3	4553.4	4352.8	3786.3	3712.4	3708.9
62.5°	8793.6	3870.7	2811.5	2969.9	3188.1	3364.0	4152.2	4088.9	3543.5	3497.7	3529.4
65°	4729.3	2758.8	2558.2	2653.2	2772.8	2906.6	3441.4	3642.0	3202.1	3040.3	3043.8
67.5°	2417.4	2347.1	2368.2	2435.0	2526.5	2593.4	2776.4	2952.3	2730.6	2593.4	2589.9
70°	2069.1	2125.4	2157.0	2195.8	2255.6	2245.0	2262.6	2294.3	2276.7	2209.8	2206.3
72.5°	1762.9	1850.9	1857.9	1865.0	1886.1	1836.8	1805.2	1752.4	1755.9	1766.5	1770.0
75°	1340.7	1425.1	1446.2	1435.7	1456.8	1393.5	1351.2	1298.5	1235.1	1224.6	1231.6
77.5°	872.7	939.5	971.2	964.2	974.7	925.5	904.3	848.0	774.1	746.0	746.0
80°	527.8	566.5	591.2	598.2	608.8	573.6	538.4	489.1	457.4	425.8	425.8
82.5°	320.2	344.8	362.4	362.4	373.0	334.3	306.1	271.0	256.9	228.7	228.7
85°	161.9	179.5	186.5	183.0	175.9	144.3	133.7	116.1	109.1	95.0	95.0
87.5°	38.7	49.3	49.3	35.2	35.2	17.6	10.6	3.5	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)