

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: P643773

Luminaire Tested: GWS-SA6F-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44806.5 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

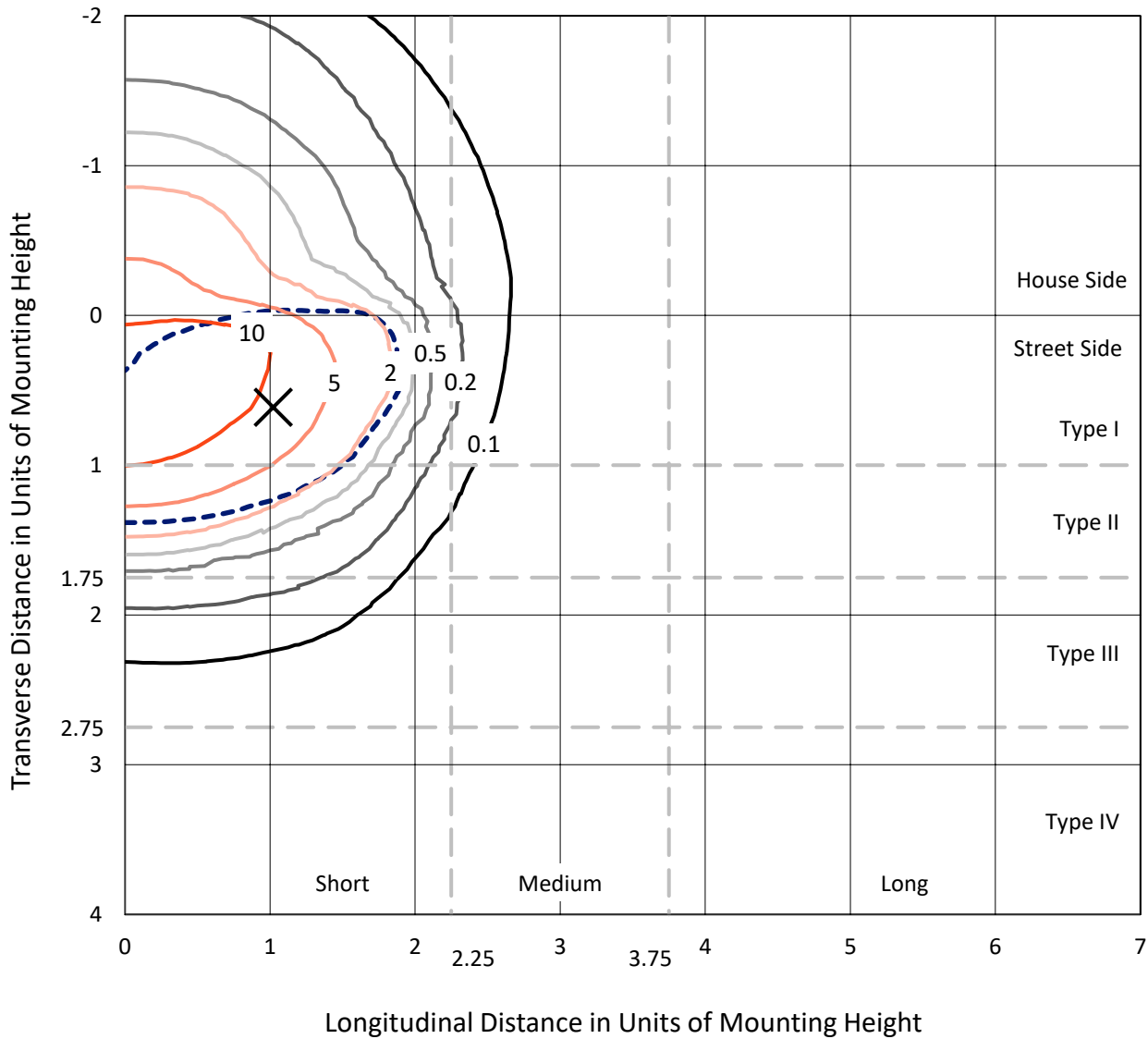
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

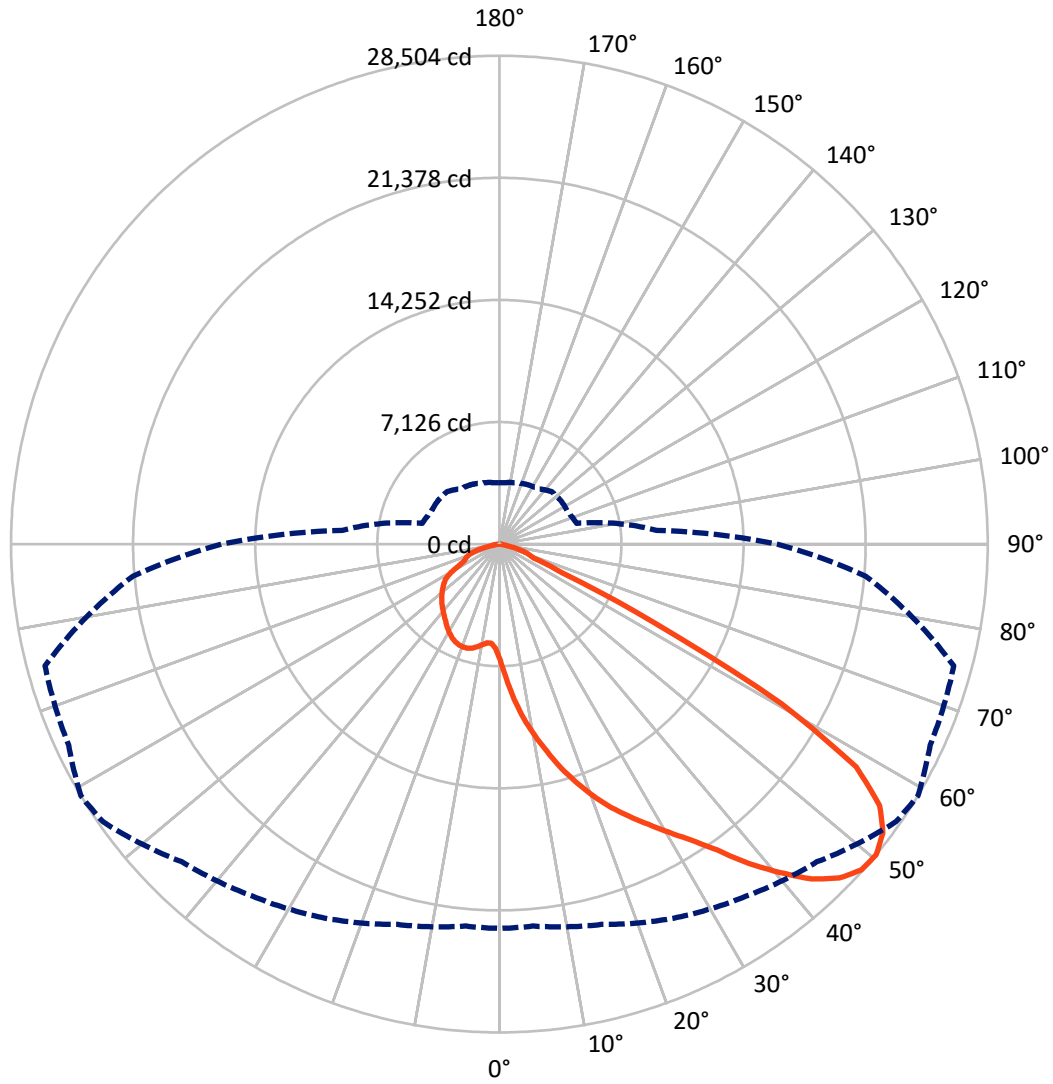
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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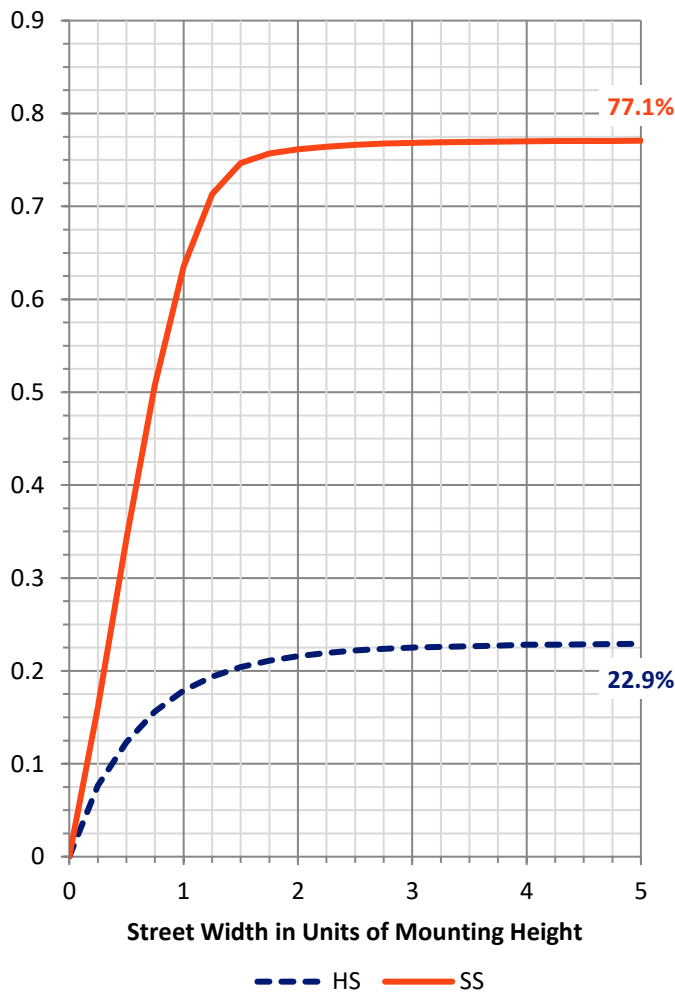
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10306.3	0.0	10306.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	34500.1	0.0	34500.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	44806.5	0.0	44806.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.5	1.7
10°-20°	2764.6	6.2
20°-30°	5235.0	11.7
30°-40°	8681.2	19.4
40°-50°	11859.0	26.5
50°-60°	10764.9	24.0
60°-70°	3584.8	8.0
70°-80°	1045.6	2.3
80°-90°	109.8	0.2
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°	44806.5	100.0
0°-180°	44806.5	100.0

Coefficient of Utilization



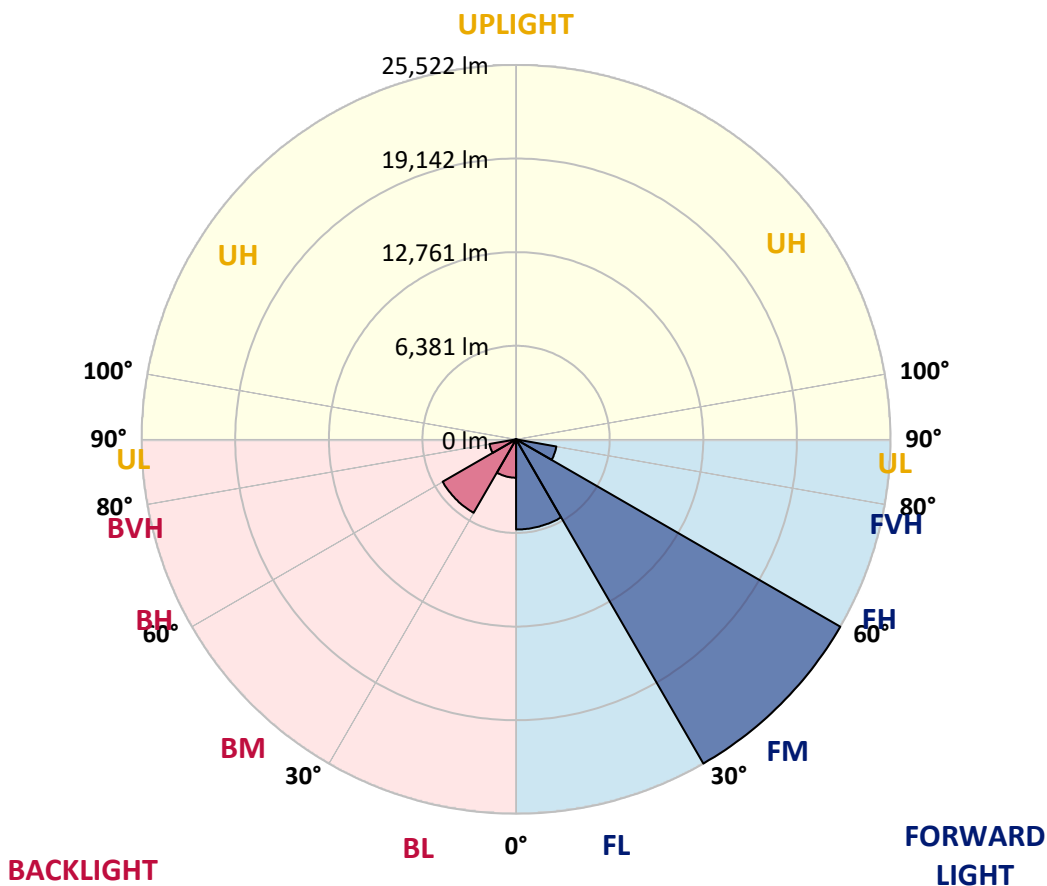
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6144.1	13.7			
FM (30°-60°)	25522.3	57.0			
FH (60°-80°)	2790.8	6.2			G2/5000
FVH (80°-90°)	42.9	0.1			G1/100
BL (0°-30°)	2617.0	5.8	B4/5000		
BM (30°-60°)	5782.9	12.9	B4/8500		
BH (60°-80°)	1839.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	66.9	0.1			G1/100
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°	59°	65°	75°	85°
0°	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5
2.5°	8795.9	8861.5	8759.4	8766.7	8511.2	8394.4	8065.9	7872.5	7744.7	7387.1	7062.2
5°	10569.6	10493.0	10412.7	10365.2	10142.6	9828.7	9420.0	9095.1	8795.9	8095.1	7419.9
7.5°	11657.2	11617.1	11562.4	11533.2	11314.2	10985.7	10576.9	10299.5	9865.2	8916.3	7854.2
10°	12580.6	12533.2	12500.3	12522.2	12343.4	12131.7	11686.4	11368.9	10879.9	9784.9	8379.8
12.5°	13296.0	13321.5	13332.5	13449.3	13372.6	13244.9	12785.0	12449.2	11905.4	10701.0	8996.6
15°	13861.7	13854.4	13982.1	14204.8	14328.8	14248.6	13879.9	13598.9	12934.7	11602.5	9660.8
17.5°	13993.1	14000.4	14201.1	14591.6	14996.7	15193.8	14985.8	14650.0	13993.1	12493.0	10350.6
20°	14098.9	14113.5	14321.5	14766.8	15358.1	15909.2	15942.0	15701.1	15135.4	13456.6	11051.4
22.5°	14766.8	14799.7	14854.4	15135.4	15668.3	16365.4	16748.6	16697.5	16223.1	14467.5	11806.9
25°	16522.3	16423.8	16157.4	16077.1	16281.5	16847.2	17500.5	17599.0	17365.4	15580.7	12620.8
27.5°	18690.3	18584.4	18190.3	17774.2	17332.6	17529.7	18226.8	18522.4	18526.0	16807.0	13438.3
30°	20657.5	20573.5	20252.4	19657.5	18894.7	18610.0	19124.6	19522.4	19759.6	18223.1	14369.0
32.5°	22340.0	22263.4	21829.0	21343.6	20599.1	20026.1	20212.2	20595.4	21150.2	20055.3	15526.0
35°	23756.1	23679.5	23263.4	22774.3	22084.5	21741.5	21675.8	21938.5	22657.5	21967.7	16854.5
37.5°	24905.8	24829.1	24394.8	23934.9	23409.4	23431.3	23529.8	23657.6	24070.0	24015.2	18274.2
40°	25650.3	25570.0	25259.8	24931.3	24599.2	24862.0	25351.0	25197.8	25416.7	25668.6	19580.8
42.5°	25982.4	25880.2	25701.4	25628.4	25526.2	25935.0	26876.6	26723.3	26460.6	26770.8	20551.6
45°	25650.3	25562.7	25559.1	25781.7	26018.9	26544.5	27931.4	27807.3	27143.1	27303.6	21131.9
47.5°	24632.0	24555.4	24763.4	25347.4	25931.3	26697.8	28402.2	28424.1	27628.5	27526.3	21507.9
50°	22431.3	22380.2	22982.4	24088.2	25095.6	26219.7	28252.6	28504.4	27745.3	27456.9	21460.4
52.5°	17956.7	18193.9	19504.2	21350.9	23307.2	25380.2	27697.8	28026.3	27183.2	27000.7	21204.9
55°	12292.3	12401.8	13712.0	16409.2	19511.5	23562.7	26424.1	26931.4	26519.0	26924.1	21471.4
57.5°	6365.1	6452.7	7485.6	9879.8	13233.9	18620.9	22887.5	24551.7	25179.5	27310.9	22299.9
60°	2613.2	2686.2	3113.2	4270.2	6675.4	10843.4	16471.2	18938.5	20413.0	24942.3	19803.4
62.5°	1897.9	1934.4	2138.7	2547.5	3496.4	5314.0	9321.4	10230.2	11266.7	15631.8	12573.3
65°	1598.6	1638.7	1803.0	2051.1	2551.2	3259.2	3981.9	4003.8	4412.5	6368.8	4660.7
67.5°	1339.5	1375.9	1521.9	1733.6	2062.1	2313.9	2138.7	2142.4	2135.1	2310.3	2233.6
70°	1043.8	1073.0	1219.0	1445.3	1616.8	1485.4	1671.6	1850.4	1773.8	1843.1	1949.0
72.5°	762.8	795.6	923.4	1094.9	1051.1	1058.4	1354.1	1536.5	1492.7	1569.4	1667.9
75°	551.1	573.0	638.7	547.5	576.7	697.1	952.6	1051.1	1094.9	1160.6	1248.2
77.5°	178.8	178.8	200.7	251.8	313.9	386.9	485.4	525.6	591.3	664.3	726.3
80°	91.2	94.9	113.1	138.7	175.2	222.6	284.7	302.9	335.8	375.9	401.5
82.5°	43.8	47.4	54.7	69.3	91.2	116.8	156.9	175.2	197.1	222.6	240.9
85°	10.9	10.9	14.6	21.9	29.2	43.8	58.4	69.3	87.6	105.8	116.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	10.9	14.6	18.2	21.9	29.2
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°	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5
2.5°	6916.2	6711.9	6449.1	6226.4	6022.1	5865.1	5730.1	5664.4	5602.3	5558.5	5573.1
5°	7106.0	6755.7	6266.6	5927.2	5719.1	5613.3	5540.3	5503.8	5496.5	5467.3	5456.3
7.5°	7383.4	6883.4	6230.1	5887.0	5748.3	5693.6	5653.4	5631.5	5642.5	5613.3	5602.3
10°	7726.5	7095.1	6321.3	6018.4	5898.0	5857.8	5814.0	5784.8	5770.2	5726.4	5719.1
12.5°	8153.5	7357.9	6485.6	6186.3	6065.9	5996.5	5938.1	5887.0	5854.2	5799.4	5784.8
15°	8613.4	7649.8	6679.0	6350.5	6208.2	6106.0	6011.1	5934.5	5876.1	5803.1	5792.1
17.5°	9113.4	7956.4	6839.6	6463.7	6281.2	6146.1	6007.5	5894.3	5814.0	5719.1	5708.2
20°	9635.3	8266.6	6960.0	6518.4	6284.8	6102.4	5916.2	5766.6	5664.4	5569.5	5562.2
22.5°	10175.5	8551.3	7033.0	6503.8	6226.4	6000.2	5777.5	5609.6	5489.2	5376.1	5368.8
25°	10719.3	8825.1	7051.3	6445.4	6109.7	5846.9	5624.2	5427.2	5292.1	5164.4	5149.8
27.5°	11270.4	9055.0	7007.5	6328.6	5952.7	5668.0	5445.4	5252.0	5113.3	4985.5	4963.6
30°	11858.0	9252.1	6912.6	6175.3	5770.2	5478.2	5259.3	5113.3	4981.9	4854.1	4832.2
32.5°	12485.7	9423.6	6777.6	5989.2	5558.5	5288.5	5127.9	4996.5	4865.1	4752.0	4730.1
35°	13233.9	9536.7	6576.8	5748.3	5361.5	5149.8	5040.3	4887.0	4726.4	4602.3	4591.4
37.5°	14007.7	9624.3	6335.9	5518.4	5189.9	5069.5	4978.2	4770.2	4569.5	4419.8	4401.6
40°	14755.9	9697.3	6036.7	5303.1	5033.0	5011.1	4887.0	4627.9	4281.1	4113.2	4098.6
42.5°	15453.0	9719.2	5722.8	5073.1	4890.6	4879.7	4741.0	4339.5	4073.1	3967.3	3952.7
45°	15931.1	9701.0	5398.0	4857.8	4748.3	4689.9	4543.9	4131.5	3967.3	3872.4	3854.1
47.5°	16285.1	9606.1	5033.0	4631.5	4587.7	4507.4	4193.5	4000.1	3846.8	3751.9	3733.7
50°	16223.1	9211.9	4664.4	4412.5	4394.3	4324.9	3938.1	3835.9	3700.8	3598.6	3584.0
52.5°	15901.9	8463.7	4288.4	4171.6	4208.1	4073.1	3755.6	3638.8	3522.0	3405.2	3379.7
55°	15982.2	7923.6	4003.8	3938.1	4003.8	3697.2	3551.2	3427.1	3317.6	3204.5	3182.6
57.5°	16332.6	7390.7	3700.8	3686.2	3755.6	3408.8	3288.4	3131.5	2974.5	2883.3	2883.3
60°	13715.7	5387.0	3168.0	3204.5	3361.4	3175.3	3069.4	2908.8	2737.3	2657.0	2657.0
62.5°	8109.7	3379.7	2627.8	2587.7	2686.2	2803.0	2861.4	2730.0	2525.6	2419.8	2423.4
65°	3573.1	2459.9	2317.6	2284.7	2255.5	2335.8	2496.4	2507.4	2292.0	2167.9	2171.6
67.5°	2200.8	2226.3	2167.9	2142.4	2116.8	2102.2	2087.6	2094.9	2036.6	1923.4	1919.8
70°	1985.5	2054.8	2014.7	1992.8	1959.9	1934.4	1846.8	1704.4	1605.9	1576.7	1609.5
72.5°	1708.1	1803.0	1781.1	1770.1	1730.0	1667.9	1551.1	1412.4	1295.7	1222.7	1237.3
75°	1288.4	1365.0	1375.9	1379.6	1335.8	1277.4	1157.0	1040.2	938.0	861.3	879.6
77.5°	740.9	784.7	795.6	806.6	773.7	751.8	671.6	587.6	532.9	452.6	474.5
80°	412.4	430.7	430.7	434.3	416.1	390.5	335.8	288.3	262.8	226.3	229.9
82.5°	248.2	255.5	259.1	262.8	251.8	226.3	186.1	153.3	138.7	120.4	116.8
85°	120.4	127.7	127.7	131.4	113.1	98.5	76.6	58.4	51.1	36.5	40.1
87.5°	29.2	32.8	32.8	29.2	25.5	18.2	10.9	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)