

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: P643743

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 46186.1 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

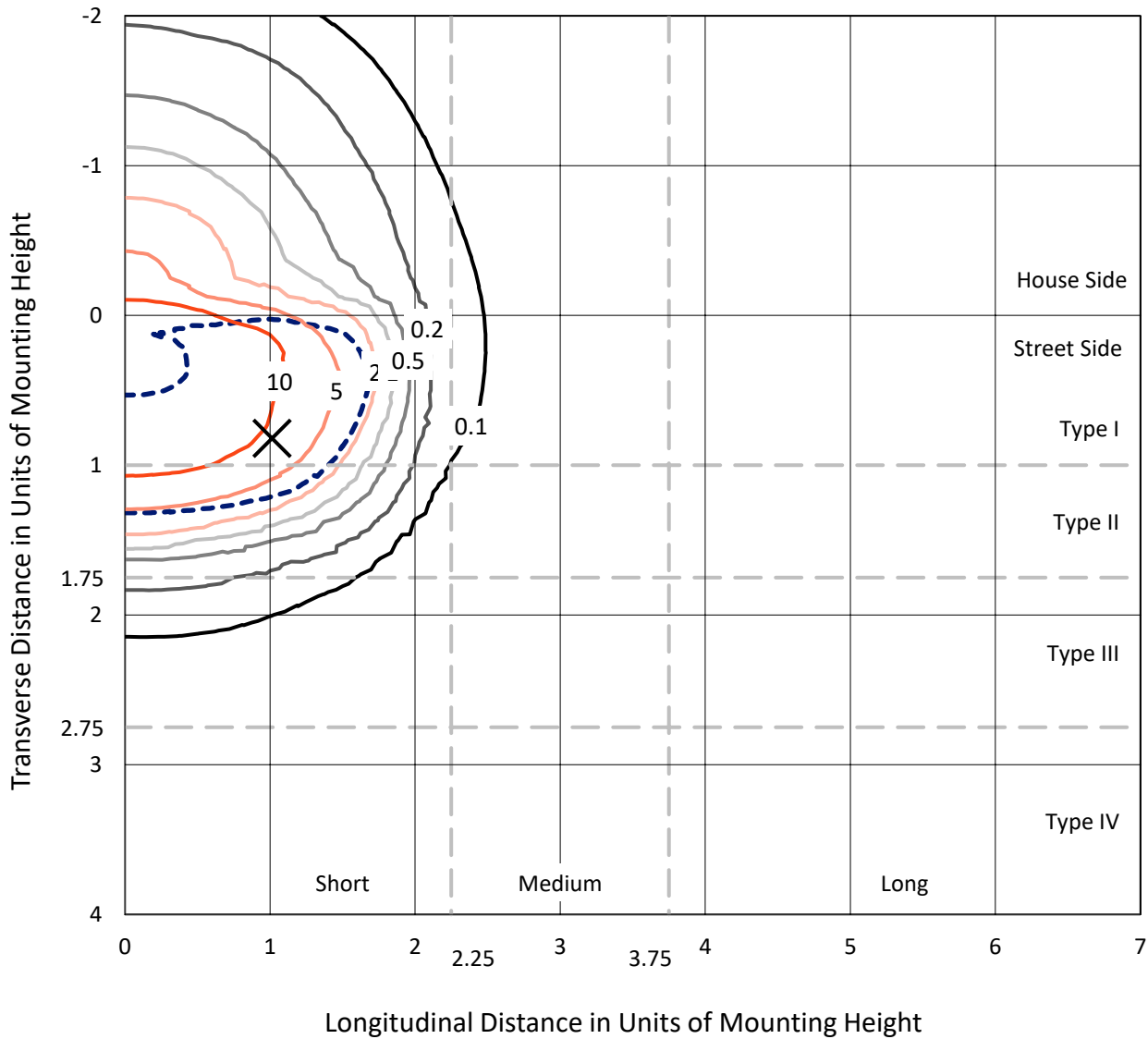
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

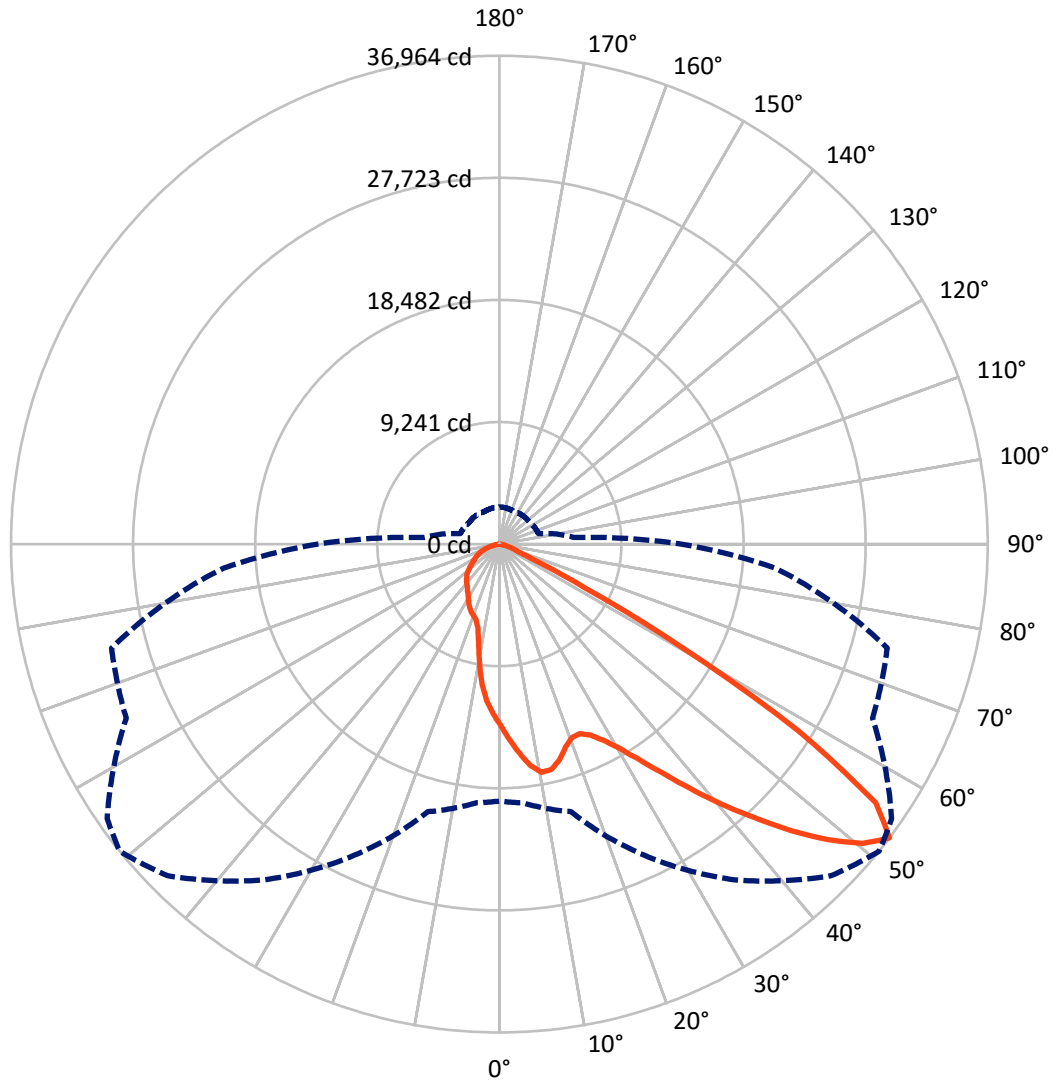
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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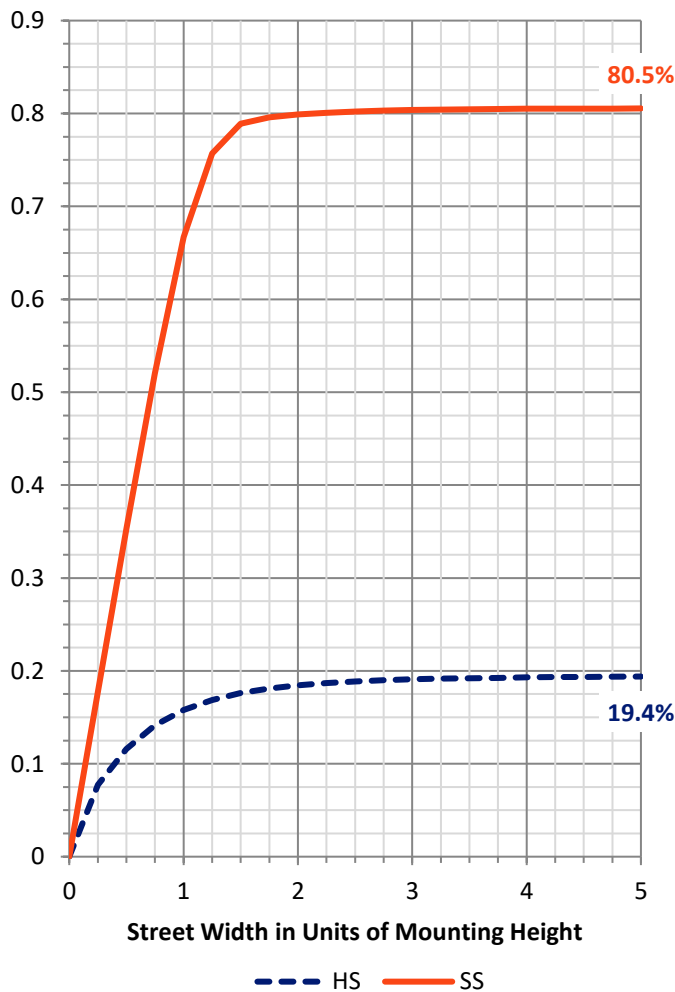
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8999.0	0.0	8999.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	37187.1	0.0	37187.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	46186.1	0.0	46186.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1283.2	2.8
10°-20°	3334.4	7.2
20°-30°	5421.4	11.7
30°-40°	8591.7	18.6
40°-50°	12958.2	28.1
50°-60°	11209.9	24.3
60°-70°	2541.4	5.5
70°-80°	749.3	1.6
80°-90°	96.5	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°	46186.1	100.0
0°-180°	46186.1	100.0

Coefficient of Utilization



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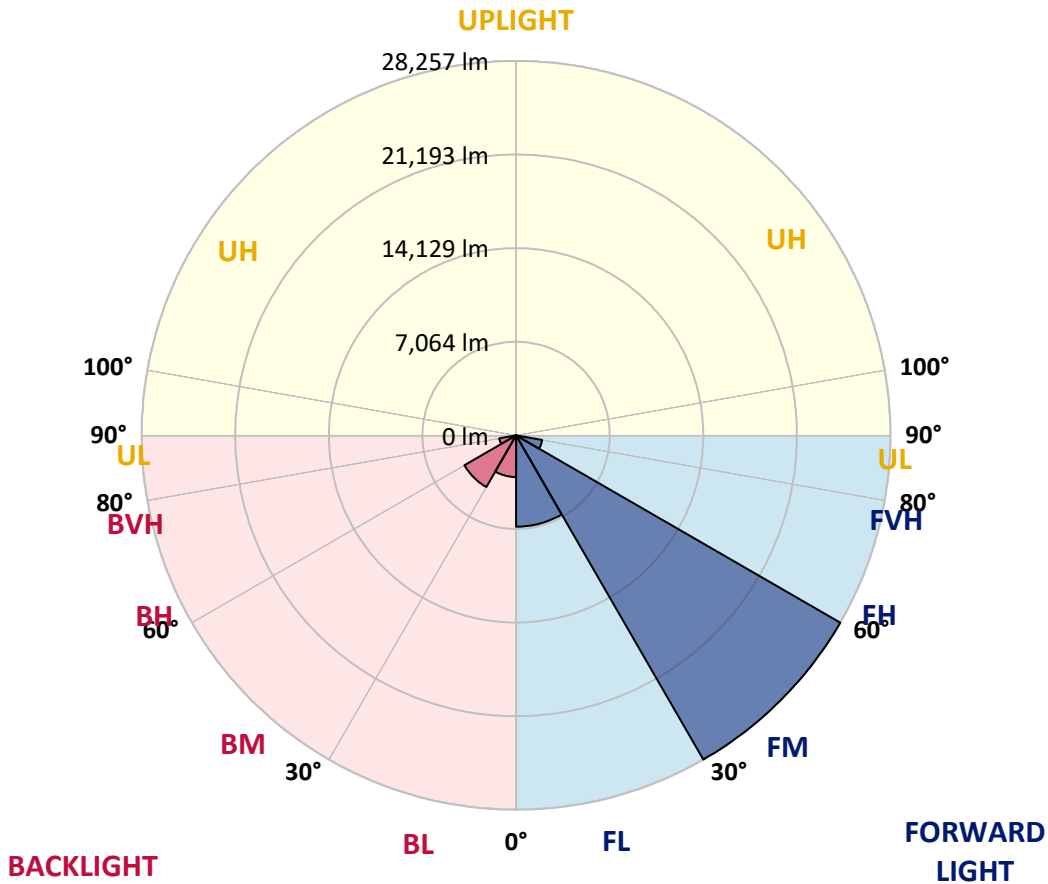
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6893.4	14.9			
FM (30°-60°)	28257.3	61.2			
FH (60°-80°)	2000.0	4.3			G2/5000
FVH (80°-90°)	36.4	0.1			G1/100
BL (0°-30°)	3145.7	6.8	B4/5000		
BM (30°-60°)	4502.5	9.7	B3/5000		
BH (60°-80°)	1290.7	2.8	B3/2500		G3/2500
BVH (80°-90°)	60.1	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°	51°	55°	65°	75°	85°
0°	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9
2.5°	15324.9	15412.5	15277.5	15226.4	15142.4	14996.4	14828.6	14781.1	14419.8	14182.6	13916.1
5°	16865.1	16912.5	16803.0	16693.5	16485.5	16226.4	15901.6	15832.2	15175.3	14631.5	14065.8
7.5°	17208.1	17189.9	17284.8	17346.8	17321.3	17219.1	16930.8	16795.7	16011.0	15149.7	14314.0
10°	15850.5	15748.3	16098.6	16514.7	17014.7	17591.3	17558.5	17547.5	16865.1	15846.8	14631.5
12.5°	14051.2	14000.1	14284.8	14806.7	15751.9	17029.3	17507.4	17879.7	17635.1	16511.0	14985.5
15°	13022.0	13003.7	13197.2	13573.1	14324.9	15938.1	16960.0	17697.2	18295.7	17222.7	15361.4
17.5°	12835.8	12846.8	12912.5	13127.8	13668.0	14996.4	16178.9	17208.1	18810.3	18003.8	15832.2
20°	13379.6	13452.6	13339.5	13372.3	13664.3	14657.0	15646.1	16715.4	19138.8	18788.4	16339.5
22.5°	14587.7	14562.1	14314.0	14168.0	14171.6	14865.1	15587.7	16485.5	19354.1	19551.2	16799.4
25°	15956.3	15927.1	15631.5	15306.7	15102.3	15430.7	16007.4	16730.0	19547.6	20248.3	17168.0
27.5°	17573.1	17481.9	17153.4	16737.3	16284.8	16427.1	16817.6	17390.6	19846.8	20934.4	17412.5
30°	19138.8	19244.6	18773.8	18281.1	17803.0	17715.4	17941.7	18460.0	20456.3	21737.4	17704.5
32.5°	21215.5	21179.0	20657.1	20014.7	19332.2	19266.5	19445.4	19919.8	21551.2	22846.9	18149.7
35°	23730.1	23737.4	22996.5	22127.9	21157.1	20981.9	21281.1	21741.0	23182.6	24350.5	18854.1
37.5°	26343.2	26332.3	25686.3	24700.9	23376.1	23127.9	23470.9	23814.0	25222.8	26398.0	19949.0
40°	28175.3	28248.3	27945.4	27427.2	26171.7	25565.8	25868.8	26106.0	27441.8	28806.7	21390.6
42.5°	29215.5	29325.0	29390.7	29700.9	29040.3	28394.3	28284.8	28408.9	29423.5	31044.0	22744.7
45°	29438.1	29584.1	30062.2	31211.9	31467.3	31284.9	30927.2	30627.9	30901.6	32631.6	23631.5
47.5°	28456.4	28711.8	29733.8	31744.7	33237.4	33810.4	33412.6	32956.4	31755.7	33040.3	23540.3
50°	24565.8	24865.1	27168.0	30657.1	33489.2	35576.9	35613.3	34938.2	31653.5	31861.5	22394.3
52.5°	19449.0	19653.4	20970.9	25989.2	31018.4	35503.9	36963.7	36241.1	31160.8	30387.0	20960.0
55°	11624.2	11952.6	13182.6	17146.1	24164.4	31467.3	34576.8	34927.2	30919.9	29149.8	19981.9
57.5°	3923.4	4084.0	5259.2	7573.0	14241.0	23040.3	26715.5	28138.9	28069.5	27259.3	18073.1
60°	1868.6	1905.1	2142.3	2872.3	5700.8	12040.2	15814.0	17456.3	18952.7	19102.3	11244.6
62.5°	1423.4	1445.3	1565.7	1722.6	2292.0	5073.0	7248.2	8503.7	9084.0	7795.7	4094.9
65°	1189.8	1208.0	1299.3	1397.8	1558.4	2197.1	2781.0	3208.0	2890.5	2251.8	1952.6
67.5°	992.7	1007.3	1076.6	1182.5	1292.0	1470.8	1543.8	1587.6	1664.2	1868.6	1795.6
70°	777.4	792.0	865.0	956.2	1062.1	1105.8	1175.2	1219.0	1372.3	1635.0	1627.7
72.5°	598.5	616.8	656.9	715.3	802.9	846.7	923.4	974.5	1062.1	1273.7	1361.3
75°	438.0	448.9	485.4	503.7	514.6	503.7	580.3	638.7	755.5	835.8	857.7
77.5°	178.8	200.7	193.4	193.4	229.9	277.4	317.5	354.0	434.3	481.8	485.4
80°	73.0	80.3	94.9	105.8	127.7	164.2	189.8	204.4	240.9	270.1	292.0
82.5°	43.8	47.4	54.7	58.4	73.0	94.9	109.5	120.4	149.6	178.8	189.8
85°	21.9	21.9	25.5	29.2	36.5	43.8	51.1	58.4	76.6	94.9	105.8
87.5°	3.6	3.6	3.6	7.3	10.9	14.6	18.2	21.9	25.5	29.2	36.5
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°	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9	13751.9
2.5°	13759.2	13562.1	13332.2	13149.7	12938.0	12781.1	12558.5	12419.8	12288.4	12178.9	12098.6
5°	13773.8	13441.7	12963.6	12540.2	12102.3	11686.2	11259.2	10912.5	10602.3	10343.1	10321.2
7.5°	13857.7	13379.6	12631.5	11890.6	11036.6	10211.7	9386.9	8715.4	8204.4	7938.0	7883.3
10°	14000.1	13372.3	12292.0	11109.6	9653.3	8324.9	7346.8	6835.8	6540.2	6434.3	6397.8
12.5°	14149.7	13354.1	11857.7	10007.4	7985.4	6821.2	6284.7	6222.7	6277.4	6284.7	6281.1
15°	14332.2	13343.1	11310.3	8715.4	6766.5	6124.1	6160.6	6292.0	6419.7	6448.9	6448.9
17.5°	14554.8	13317.6	10565.8	7452.6	6003.7	5989.1	6182.5	6357.7	6478.1	6500.0	6500.0
20°	14788.4	13251.9	9649.7	6423.4	5693.5	5905.1	6113.2	6248.2	6332.2	6361.4	6365.0
22.5°	14949.0	13076.7	8594.9	5660.6	5500.0	5744.6	5894.2	6032.9	6032.9	5959.9	5938.0
25°	14981.8	12700.8	7452.6	5138.7	5270.1	5496.4	5649.7	5569.4	5419.7	5361.3	5357.7
27.5°	14861.4	12153.4	6324.9	4766.5	4992.7	5219.0	5193.5	5076.7	5011.0	4952.6	4974.5
30°	14715.4	11496.4	5346.7	4459.9	4671.6	4894.2	4806.6	4766.5	4719.0	4653.3	4667.9
32.5°	14616.9	10762.8	4594.9	4222.7	4456.2	4492.7	4554.8	4551.1	4507.3	4383.2	4375.9
35°	14646.1	10022.0	4091.3	4029.2	4277.4	4262.8	4379.6	4357.7	4054.8	3883.2	3872.3
37.5°	14879.7	9310.3	3795.6	3875.9	3992.7	4084.0	4186.2	3923.4	3817.5	3708.1	3715.4
40°	15324.9	8649.7	3635.1	3792.0	3821.2	3956.2	3719.0	3715.4	3667.9	3569.4	3565.7
42.5°	15828.6	8091.3	3525.6	3751.8	3711.7	3737.2	3485.4	3514.6	3511.0	3448.9	3430.7
45°	16135.1	7576.7	3438.0	3602.2	3613.2	3357.7	3281.0	3313.9	3332.1	3299.3	3295.6
47.5°	15817.6	6985.4	3346.7	3372.3	3467.2	3186.2	3091.3	3094.9	3127.8	3131.4	3116.8
50°	14927.1	6324.9	3237.2	3175.2	3113.2	3007.3	2919.7	2901.5	2934.3	2967.2	2978.1
52.5°	13777.5	5693.5	3054.8	2959.9	2813.9	2813.9	2773.7	2715.3	2759.1	2802.9	2817.5
55°	12934.4	5226.3	2795.6	2689.8	2529.2	2584.0	2576.7	2525.6	2584.0	2616.8	2627.8
57.5°	11208.1	4200.8	2459.9	2427.0	2292.0	2357.7	2372.3	2306.6	2277.4	2284.7	2295.6
60°	6653.3	2711.7	2219.0	2215.3	2094.9	2171.5	2215.3	2149.6	2062.1	2073.0	2087.6
62.5°	2985.4	2073.0	1916.1	1901.5	1897.8	1996.4	2043.8	1981.8	1857.7	1868.6	1883.2
65°	1879.6	1792.0	1664.2	1664.2	1722.6	1806.6	1843.1	1792.0	1649.6	1631.4	1646.0
67.5°	1744.5	1667.9	1536.5	1511.0	1540.2	1609.5	1613.1	1514.6	1430.7	1416.1	1416.1
70°	1565.7	1507.3	1379.6	1328.5	1317.5	1313.9	1302.9	1277.4	1222.6	1208.0	1215.3
72.5°	1295.6	1255.5	1175.2	1120.4	1091.2	1087.6	1043.8	1021.9	974.5	967.2	963.5
75°	857.7	868.6	868.6	861.3	835.8	824.8	777.4	755.5	700.7	678.8	675.2
77.5°	507.3	518.3	532.8	536.5	532.8	532.8	489.1	463.5	408.8	379.6	372.3
80°	310.2	317.5	324.8	335.8	321.2	310.2	270.1	244.5	219.0	200.7	197.1
82.5°	200.7	208.0	211.7	219.0	211.7	197.1	164.2	149.6	131.4	116.8	113.1
85°	113.1	116.8	124.1	124.1	113.1	102.2	83.9	73.0	62.0	54.7	54.7
87.5°	40.1	40.1	40.1	43.8	36.5	32.8	21.9	14.6	10.9	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

(END OF REPORT)