

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: P643673

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
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
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49902.6 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - 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

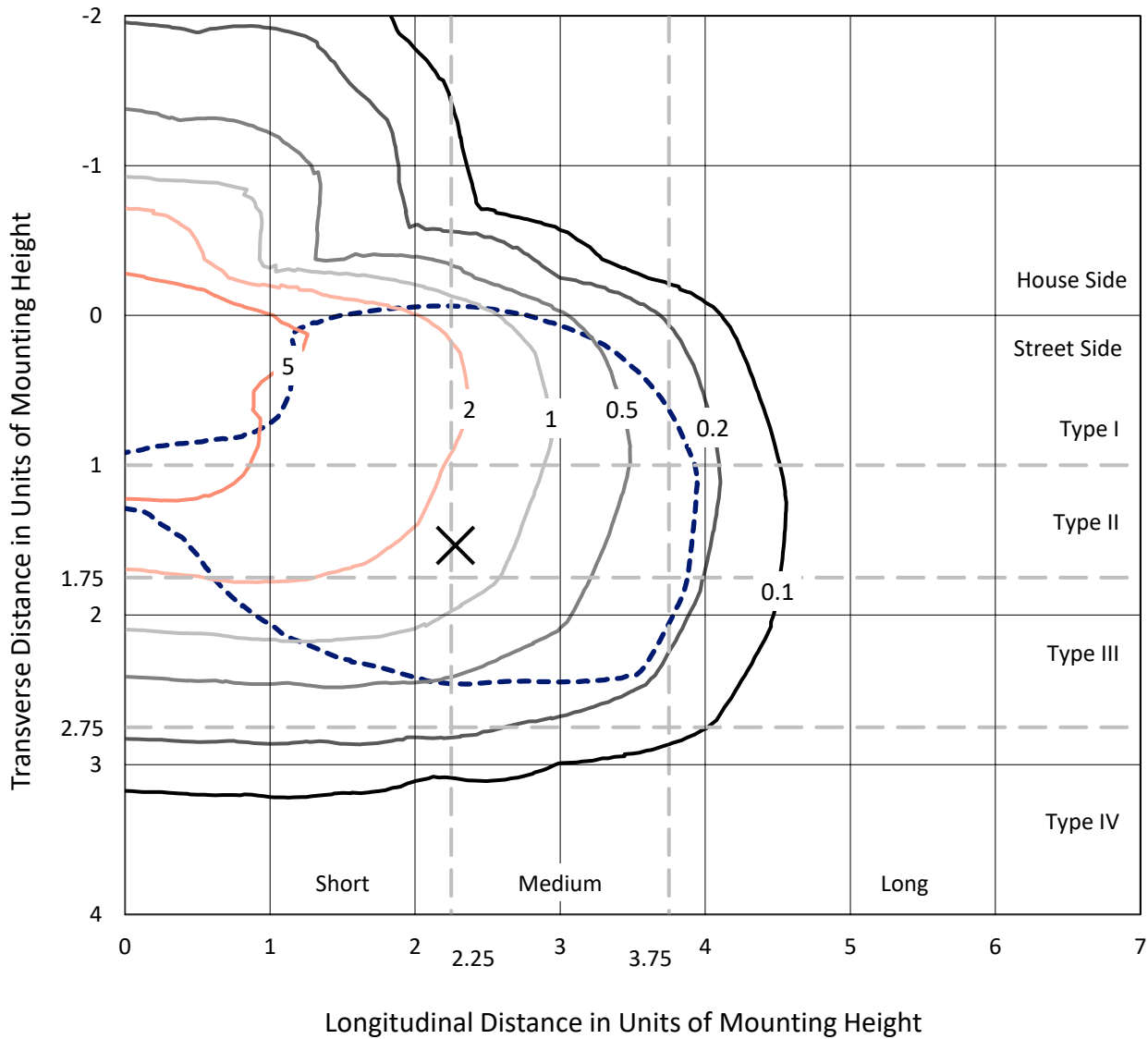


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Iso-Footcandle Lines of Horizontal Illumination

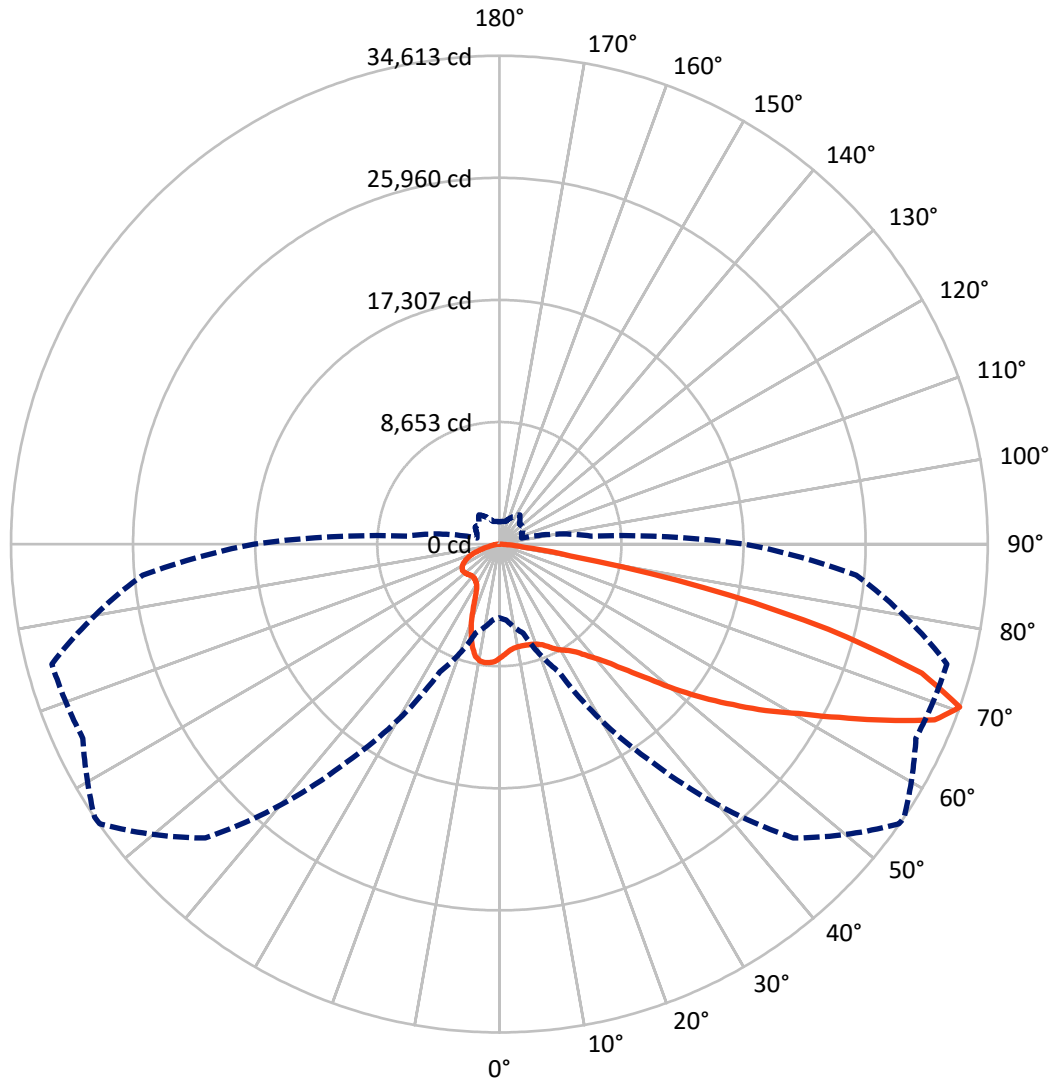
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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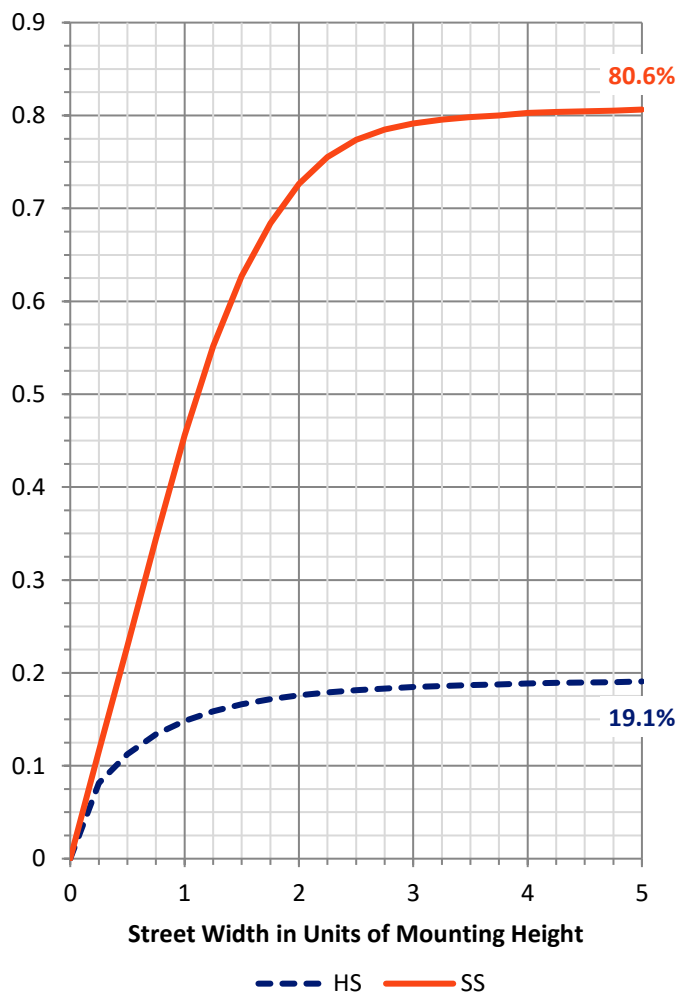
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9593.9	0.0	9593.9
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	40308.7	0.0	40308.7
	% Fixture	80.8	0.0	80.8
Total	Lumens	49902.6	0.0	49902.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.4	1.5
10°-20°	2019.7	4.0
20°-30°	3339.1	6.7
30°-40°	4992.4	10.0
40°-50°	7429.4	14.9
50°-60°	10562.5	21.2
60°-70°	13081.9	26.2
70°-80°	7223.4	14.5
80°-90°	508.7	1.0
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°	49902.6	100.0
0°-180°	49902.6	100.0

Coefficient of Utilization



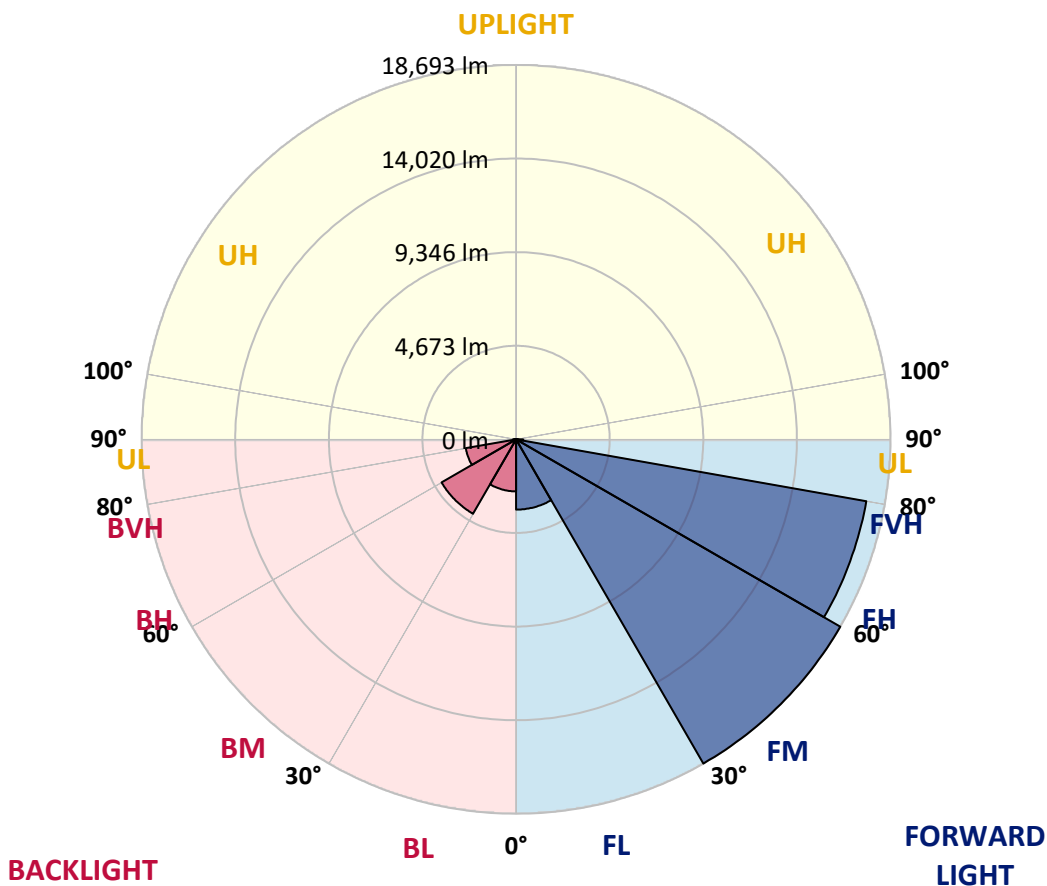
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.1	7.0			
FM (30°-60°)	18692.8	37.5			
FH (60°-80°)	17755.4	35.6			G5
FVH (80°-90°)	353.5	0.7			G3/500
BL (0°-30°)	2597.1	5.2	B4/5000		
BM (30°-60°)	4291.5	8.6	B3/5000		
BH (60°-80°)	2550.0	5.1	B4/5000		G4/5000
BVH (80°-90°)	155.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0
2.5°	7537.8	7495.5	7544.8	7569.4	7632.8	7724.3	7805.2	7808.7	7850.9	7953.0	8051.5
5°	7196.4	7175.3	7189.4	7263.3	7330.1	7446.3	7569.4	7580.0	7699.6	7900.2	8097.3
7.5°	6932.5	6904.3	6957.1	7052.1	7136.6	7266.8	7428.7	7442.7	7611.7	7914.3	8216.9
10°	6552.4	6531.3	6629.8	6756.5	6939.5	7154.2	7368.8	7386.4	7608.1	8005.8	8428.1
12.5°	6387.0	6387.0	6429.3	6548.9	6749.5	7034.5	7358.3	7386.4	7664.4	8146.5	8699.0
15°	6643.9	6661.5	6626.3	6619.3	6700.2	6971.2	7372.4	7414.6	7770.0	8290.8	8966.5
17.5°	7161.2	7178.8	7087.3	6943.0	6862.1	7031.0	7425.1	7470.9	7882.6	8449.2	9255.0
20°	7886.1	7907.2	7706.7	7485.0	7207.0	7203.4	7527.2	7569.4	8026.9	8621.6	9561.2
22.5°	8734.2	8748.3	8494.9	8143.0	7717.2	7523.7	7703.1	7745.4	8213.4	8860.9	9892.0
25°	9716.0	9758.3	9452.1	8941.8	8364.7	7963.6	7995.2	8044.5	8547.7	9181.1	10282.6
27.5°	10764.7	10817.5	10465.6	9902.5	9107.2	8449.2	8371.8	8414.0	8903.1	9378.2	10490.2
30°	11838.0	11876.7	11524.8	10880.8	9906.1	8998.1	8688.5	8713.1	9058.0	9473.2	10701.4
32.5°	13030.9	12999.3	12661.5	11918.9	10828.0	9656.2	8984.1	8977.0	9230.4	9663.2	11004.0
35°	14150.0	14195.7	13836.8	13016.9	11841.5	10469.1	9427.5	9399.3	9596.4	9972.9	11429.8
37.5°	15504.8	15490.7	15061.4	14174.6	12858.5	11246.8	10050.3	10001.1	10071.4	10455.0	12024.5
40°	16472.6	16571.1	16293.1	15466.1	14047.9	12204.0	10778.8	10669.7	10687.3	11049.7	12819.8
42.5°	17264.3	17355.8	17384.0	16856.1	15409.8	13386.4	11686.7	11577.6	11588.1	12101.9	13798.1
45°	17873.1	17996.3	18393.9	18239.1	16944.1	14751.8	12914.8	12802.2	12809.2	13379.3	14980.5
47.5°	18123.0	18256.7	19062.6	19432.1	18573.4	16384.6	14442.1	14276.7	14301.3	14931.2	16331.8
50°	18042.0	18221.5	19312.4	20350.5	19938.8	18045.6	16268.5	16152.3	16057.3	16972.3	17799.2
52.5°	17345.3	17542.3	19287.8	20934.7	21054.3	19615.0	18154.6	18087.8	18066.7	19140.0	19439.1
55°	15293.7	15624.5	18439.7	21089.5	21927.0	21093.0	20199.2	20086.6	20195.7	21462.5	21096.6
57.5°	14157.0	14403.4	16778.7	20917.1	22641.4	22500.6	22240.2	22250.8	22374.0	23985.7	23105.9
60°	13509.5	13798.1	15856.7	20445.5	23327.6	24210.9	24376.3	24376.3	24598.0	26705.9	25146.9
62.5°	12650.9	12943.0	14994.6	19537.6	23961.0	26223.8	27061.3	27050.7	27138.7	29623.1	27142.2
65°	10909.0	11179.9	13263.2	18105.4	24270.7	28440.8	30112.3	30080.6	29904.7	32220.2	28461.9
67.5°	7921.3	8178.2	10159.4	15381.7	23155.2	30228.4	33254.8	33268.9	32216.7	33856.5	28532.3
70°	5222.2	5398.2	6531.3	9990.5	18830.3	29457.8	34570.9	34613.1	32572.1	32836.0	25393.3
72.5°	3258.6	3381.8	4078.5	5957.7	11127.2	23317.1	31192.6	31308.8	29302.9	28856.0	20864.3
75°	2164.2	2248.7	2713.2	3473.3	5148.3	12619.2	23711.2	24084.2	23486.0	22620.3	14537.1
77.5°	1302.0	1372.4	1727.8	2206.4	2280.3	4930.2	13840.3	14804.5	14889.0	11809.8	6087.9
80°	594.7	675.7	953.7	1259.8	1214.1	1717.3	4880.9	5106.1	6024.6	3751.3	1921.4
82.5°	351.9	387.1	633.4	626.4	517.3	834.0	1756.0	1801.7	1530.8	1372.4	819.9
85°	140.8	165.4	267.4	235.8	190.0	271.0	661.6	693.2	665.1	598.2	302.6
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	59.8	63.3	91.5	165.4	91.5
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°	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0	8055.0
2.5°	8114.9	8093.8	8199.3	8280.3	8315.5	8350.6	8319.0	8308.4	8308.4	8238.0	8202.8
5°	8202.8	8213.4	8357.7	8424.5	8424.5	8396.4	8311.9	8252.1	8231.0	8139.5	8114.9
7.5°	8368.2	8414.0	8547.7	8544.2	8445.7	8290.8	8079.7	7917.8	7770.0	7706.7	7668.0
10°	8639.2	8699.0	8790.5	8642.7	8368.2	7960.0	7513.1	7161.2	6950.1	6781.2	6781.2
12.5°	8948.9	9005.2	8987.6	8646.2	8079.7	7316.1	6672.1	6267.4	5971.8	5816.9	5816.9
15°	9258.6	9304.3	9114.3	8484.4	7477.9	6460.9	5757.1	5271.5	5014.6	4870.3	4870.3
17.5°	9571.7	9568.2	9167.1	8111.4	6693.2	5514.3	4824.6	4448.0	4360.1	4335.4	4331.9
20°	9874.4	9793.4	9100.2	7488.5	5781.8	4560.7	4124.3	4148.9	4279.1	4335.4	4342.5
22.5°	10215.7	10015.1	8903.1	6693.2	4747.2	3899.1	3927.2	4131.3	4321.4	4405.8	4416.4
25°	10564.1	10205.2	8572.3	5760.6	3881.5	3656.3	3874.4	4103.2	4317.8	4426.9	4437.5
27.5°	10704.9	10205.2	8009.3	4680.3	3420.5	3554.2	3793.5	4015.2	4240.4	4367.1	4391.7
30°	10821.0	10117.2	7221.0	3705.5	3230.5	3455.7	3663.3	3867.4	4089.1	4243.9	4272.1
32.5°	10982.9	10039.8	6267.4	3114.3	3142.5	3360.7	3504.9	3677.4	3878.0	3980.0	3969.5
35°	11172.9	9920.1	5116.7	2832.8	3068.6	3279.7	3381.8	3483.8	3392.3	3388.8	3399.4
37.5°	11443.9	9814.6	4113.7	2706.1	3019.3	3223.4	3307.9	3089.7	2963.0	2910.2	2889.1
40°	11834.5	9772.3	3244.5	2632.2	3012.3	3219.9	3160.1	2822.3	2649.8	2466.8	2463.3
42.5°	12327.1	9740.7	2681.5	2597.0	3036.9	3300.8	2956.0	2646.3	2290.9	2209.9	2202.9
45°	12960.6	9691.4	2400.0	2590.0	3096.7	3364.2	2934.9	2403.5	2160.7	2125.5	2125.5
47.5°	13724.2	9614.0	2273.3	2590.0	3163.6	3336.0	2871.5	2350.7	2100.9	2139.6	2164.2
50°	14600.4	9515.4	2206.4	2583.0	3230.5	3336.0	2737.8	2340.2	2086.8	2287.4	2368.3
52.5°	15536.5	9402.8	2160.7	2554.8	3276.2	3339.6	2744.8	2375.3	2100.9	2322.6	2389.4
55°	16571.1	9385.2	2097.3	2495.0	3290.3	3248.1	2762.4	2452.8	2122.0	2104.4	2107.9
57.5°	17876.6	9596.4	2051.6	2407.0	3234.0	3061.6	2797.6	2509.1	2097.3	2100.9	2125.5
60°	19242.0	9994.0	2090.3	2322.6	3117.9	2885.6	2822.3	2480.9	1977.7	1921.4	1928.4
62.5°	20403.3	10296.7	2122.0	2283.8	2948.9	2730.8	2797.6	2417.6	1910.8	1896.8	1928.4
65°	20888.9	10046.8	2044.6	2202.9	2702.6	2540.7	2744.8	2336.6	1854.5	1801.7	1805.3
67.5°	20350.5	8875.0	1893.2	2023.4	2424.6	2297.9	2660.4	2231.1	1777.1	1713.8	1699.7
70°	17384.0	6520.8	1632.8	1738.4	2086.8	2012.9	2530.2	2093.8	1653.9	1608.2	1576.5
72.5°	14009.2	4617.0	1354.8	1383.0	1636.3	1696.2	2305.0	1921.4	1513.2	1383.0	1337.2
75°	9751.2	2899.7	1129.6	1101.5	1182.4	1295.0	1798.2	1594.1	1305.6	1168.3	1126.1
77.5°	4194.7	1488.5	883.3	869.2	788.3	897.4	1379.5	1330.2	1094.4	936.1	911.4
80°	1404.1	862.2	636.9	612.3	524.3	629.9	971.3	1062.7	858.6	693.2	651.0
82.5°	703.8	499.7	404.7	366.0	351.9	397.6	573.6	661.6	594.7	478.6	404.7
85°	344.9	285.0	221.7	218.2	183.0	172.4	239.3	281.5	267.4	197.1	186.5
87.5°	126.7	112.6	70.4	56.3	35.2	24.6	14.1	14.1	10.6	10.6	10.6
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)