

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: P641192

Luminaire Tested: GWS-SA5F-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35135.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

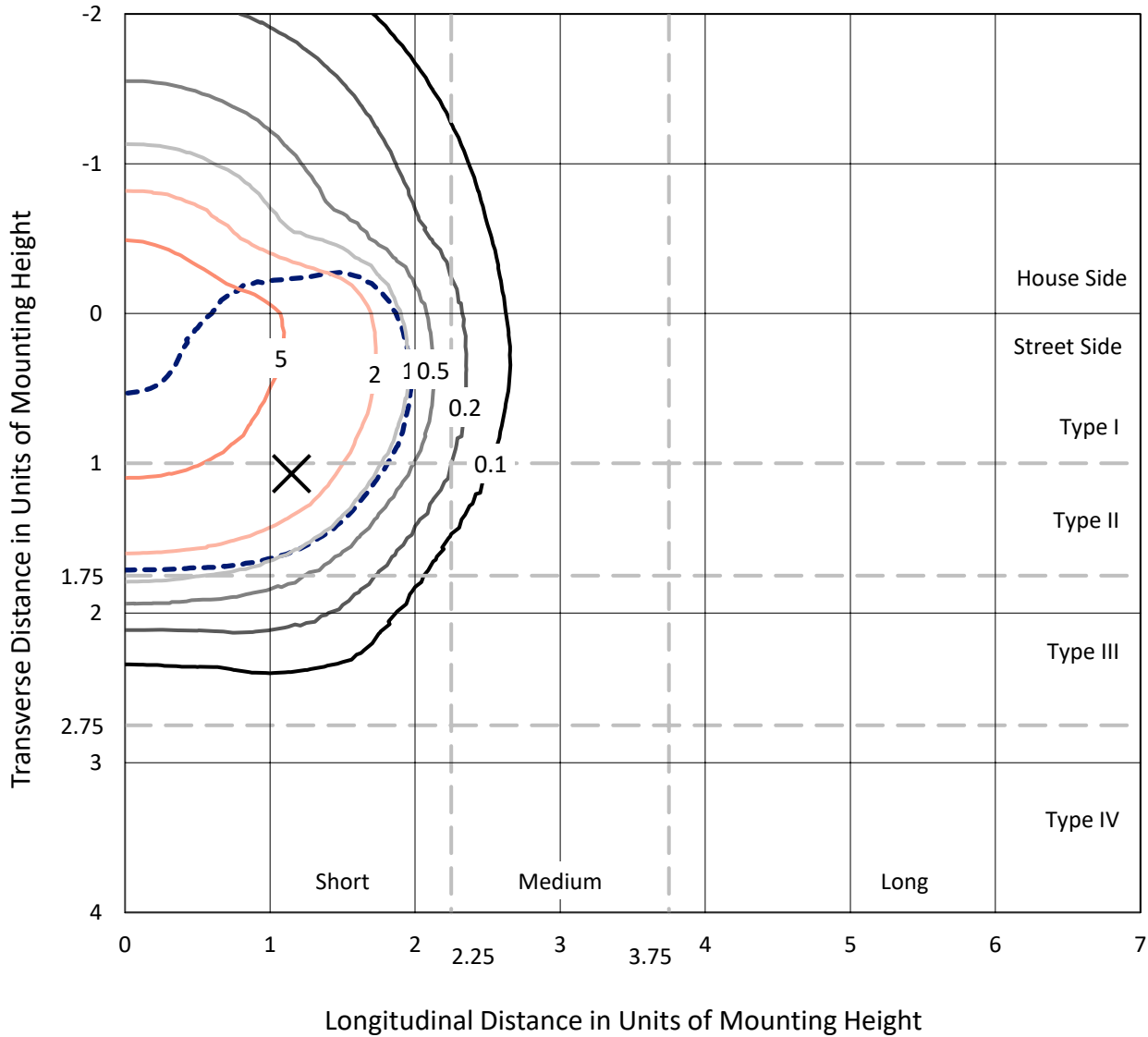
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

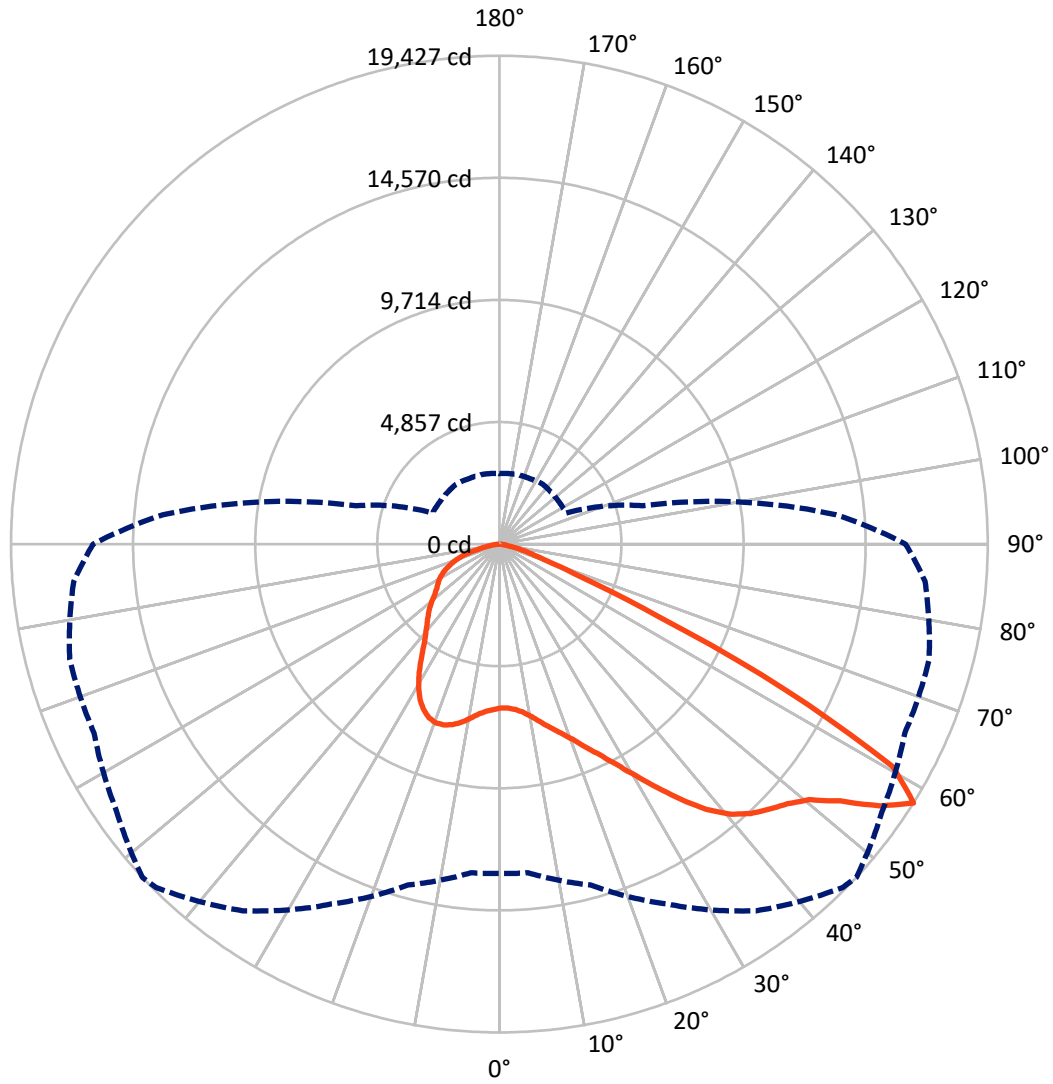
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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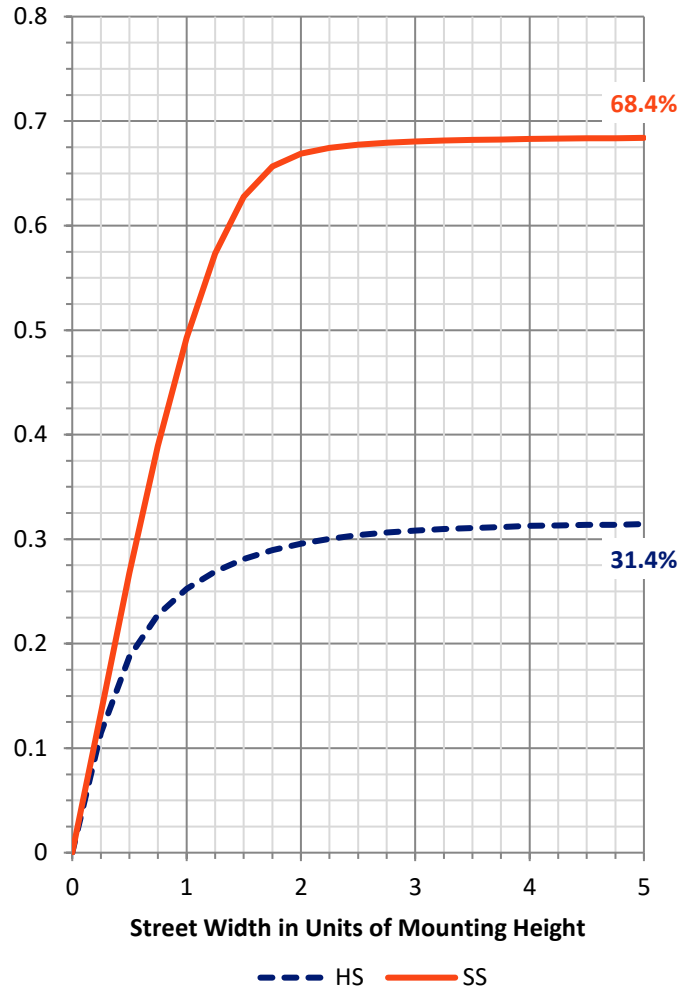
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11120.4	0.0	11120.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24015.4	0.0	24015.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	35135.8	0.0	35135.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.7	1.8
10°-20°	2113.8	6.0
20°-30°	3806.2	10.8
30°-40°	5748.8	16.4
40°-50°	7741.4	22.0
50°-60°	9302.3	26.5
60°-70°	4530.4	12.9
70°-80°	1116.1	3.2
80°-90°	134.1	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°	35135.8	100.0
0°-180°	35135.8	100.0

Coefficient of Utilization



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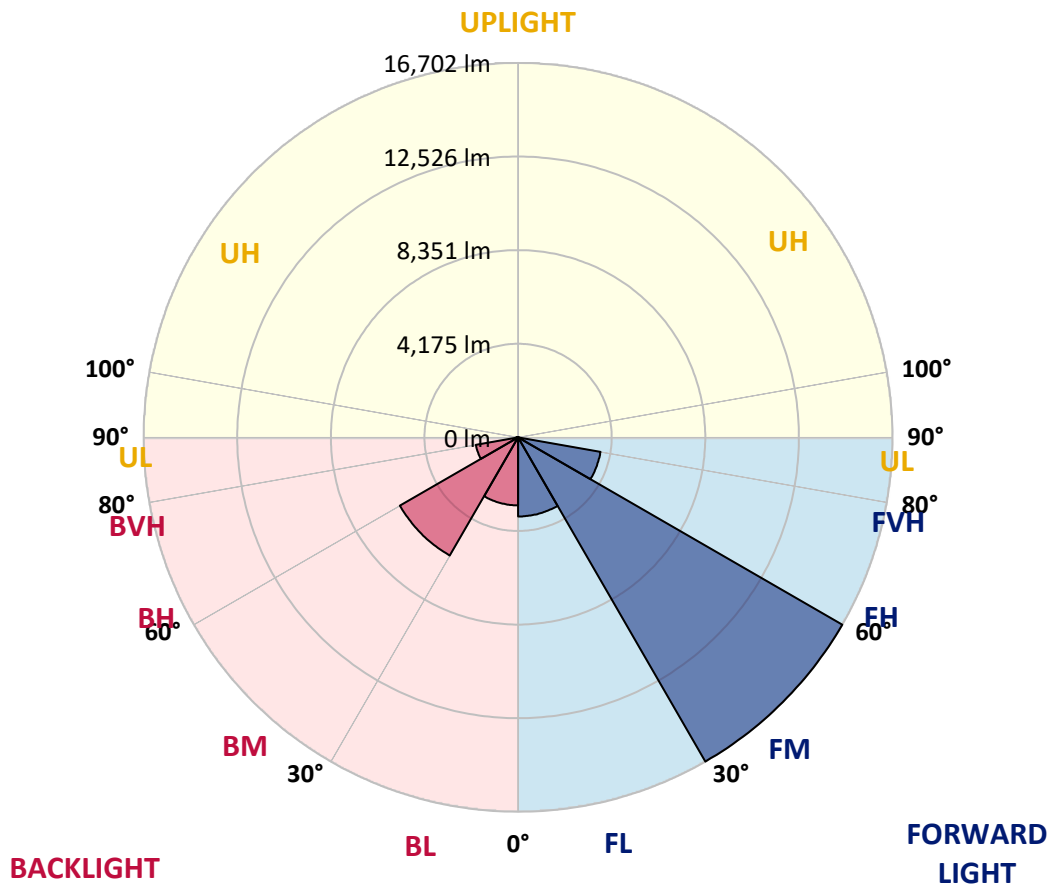
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3529.2	10.0			
FM (30°-60°)	16701.9	47.5			
FH (60°-80°)	3733.9	10.6			G2/5000
FVH (80°-90°)	50.4	0.1			G1/100
BL (0°-30°)	3033.4	8.6	B4/5000		
BM (30°-60°)	6090.6	17.3	B4/8500		
BH (60°-80°)	1912.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	83.7	0.2			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°	47°	55°	65°	75°	85°
0°	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0
2.5°	6504.2	6501.2	6501.2	6518.9	6518.9	6524.8	6533.7	6542.5	6545.5	6530.7	6498.3
5°	6575.0	6575.0	6575.0	6589.8	6589.8	6595.7	6607.5	6610.4	6607.5	6583.9	6551.4
7.5°	6687.1	6687.1	6690.1	6707.8	6722.6	6731.4	6752.1	6749.1	6740.3	6701.9	6660.6
10°	6870.1	6879.0	6887.8	6908.5	6938.0	6958.6	6973.4	6973.4	6961.6	6902.6	6849.5
12.5°	7129.8	7141.6	7150.5	7168.2	7191.8	7227.2	7259.7	7259.7	7244.9	7171.1	7091.4
15°	7433.8	7445.6	7442.6	7448.5	7492.8	7543.0	7569.5	7587.2	7593.1	7489.8	7365.9
17.5°	7782.0	7793.8	7782.0	7764.3	7770.2	7849.9	7897.1	7962.0	8000.4	7861.7	7664.0
20°	8097.8	8086.0	8086.0	8097.8	8115.5	8212.9	8283.7	8389.9	8437.1	8268.9	7962.0
22.5°	8431.2	8457.8	8446.0	8446.0	8516.8	8679.1	8764.7	8903.4	8953.6	8735.2	8322.0
25°	8862.1	8885.7	8879.8	8885.7	8968.3	9198.5	9284.1	9540.8	9591.0	9278.2	8720.4
27.5°	9334.3	9372.6	9390.3	9384.4	9517.2	9818.2	9924.5	10281.6	10373.0	9886.1	9145.4
30°	9948.1	9989.4	10004.2	9998.3	10154.7	10564.9	10685.9	11093.1	11223.0	10606.2	9685.4
32.5°	10659.3	10700.6	10744.9	10762.6	10963.3	11382.3	11556.4	11978.4	12164.4	11438.4	10337.6
35°	11364.6	11400.0	11485.6	11624.3	11898.8	12326.7	12480.1	12896.2	13076.2	12303.1	11125.6
37.5°	12143.7	12167.3	12241.1	12432.9	12828.3	13235.6	13389.1	13787.4	13808.1	13138.2	12016.8
40°	12996.6	12996.6	12981.8	13170.7	13583.8	13994.0	14126.8	14357.0	14236.0	13781.5	12884.4
42.5°	13719.6	13707.8	13719.6	13896.6	14203.5	14537.0	14652.1	14607.8	14454.4	14274.4	13669.4
45°	14371.8	14380.6	14486.9	14622.6	14782.0	14979.7	15047.6	14796.7	14658.0	14669.8	14298.0
47.5°	14814.4	14823.3	15071.2	15298.4	15395.8	15457.8	15428.2	15080.0	15009.2	15142.0	14782.0
50°	14873.4	14920.7	15348.6	15814.8	16056.8	16065.7	15983.0	15558.1	15537.4	15687.9	15041.7
52.5°	14885.2	14932.5	15466.6	16307.7	16936.2	17069.0	16974.6	16532.0	16316.5	16166.0	15360.4
55°	14841.0	14894.1	15484.3	16638.2	17842.2	18373.4	18382.3	17756.6	17069.0	16968.7	16269.3
57.5°	13102.8	13123.5	14038.3	15797.1	17806.8	19311.9	19427.0	18577.0	17792.1	17697.6	16998.2
60°	9127.7	9210.3	10204.8	12527.3	14959.0	17612.0	17983.9	17736.0	17210.7	16523.1	14584.2
62.5°	4571.2	4642.0	5639.5	7835.1	10317.0	12412.2	12810.6	13073.3	13197.2	12459.5	9930.4
65°	1968.4	2021.5	2641.2	4093.1	5840.2	6852.4	6991.1	7306.9	8080.1	7209.5	5350.3
67.5°	1316.2	1351.6	1667.4	2496.6	3441.0	3505.9	3485.2	3553.1	3721.3	3072.1	2416.9
70°	1009.3	1038.8	1251.3	1829.7	2473.0	2115.9	2003.8	1817.9	1974.3	2012.6	1959.5
72.5°	731.9	755.5	914.8	1248.3	1549.3	1351.6	1333.9	1428.3	1640.8	1699.8	1667.4
75°	472.2	484.0	581.4	684.7	799.7	867.6	903.0	1074.2	1289.6	1333.9	1295.5
77.5°	315.8	324.6	380.7	439.7	454.5	457.4	469.2	545.9	693.5	776.1	767.3
80°	165.3	165.3	185.9	185.9	212.5	253.8	265.6	315.8	383.6	425.0	427.9
82.5°	64.9	67.9	79.7	88.5	106.2	129.8	138.7	165.3	200.7	230.2	256.7
85°	26.6	29.5	32.5	38.4	47.2	59.0	62.0	70.8	94.4	118.0	132.8
87.5°	0.0	0.0	3.0	3.0	5.9	8.9	8.9	11.8	14.8	26.6	35.4
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°	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0	6516.0
2.5°	6536.6	6498.3	6536.6	6548.4	6580.9	6592.7	6572.1	6569.1	6569.1	6539.6	6530.7
5°	6580.9	6545.5	6583.9	6601.6	6648.8	6678.3	6684.2	6707.8	6722.6	6710.8	6707.8
7.5°	6690.1	6645.8	6687.1	6713.7	6775.7	6822.9	6843.6	6896.7	6935.0	6929.1	6926.2
10°	6881.9	6822.9	6870.1	6914.4	6982.3	7038.3	7041.3	7070.8	7109.2	7097.3	7091.4
12.5°	7103.2	7047.2	7100.3	7144.6	7224.2	7247.9	7209.5	7197.7	7203.6	7188.8	7177.0
15°	7374.7	7295.1	7342.3	7392.5	7436.7	7410.2	7327.5	7295.1	7292.1	7271.5	7259.7
17.5°	7646.2	7545.9	7581.3	7607.9	7587.2	7504.6	7401.3	7345.2	7318.7	7277.4	7265.6
20°	7914.8	7787.9	7782.0	7761.3	7666.9	7516.4	7377.7	7265.6	7197.7	7141.6	7121.0
22.5°	8221.7	8044.6	7956.1	7861.7	7655.1	7410.2	7200.6	7041.3	6932.1	6861.3	6837.7
25°	8552.2	8301.4	8118.4	7929.6	7537.1	7182.9	6890.8	6672.4	6542.5	6465.8	6439.3
27.5°	8879.8	8534.5	8260.1	7938.4	7301.0	6855.4	6462.9	6167.8	6037.9	5975.9	5955.3
30°	9322.5	8844.4	8428.3	7823.3	6991.1	6400.9	5911.0	5613.0	5527.4	5483.1	5465.4
32.5°	9833.0	9236.9	8652.6	7581.3	6595.7	5869.7	5353.3	5146.7	5087.7	5002.1	4999.1
35°	10505.8	9797.6	8865.0	7224.2	6096.9	5300.1	4925.4	4777.8	4671.6	4535.8	4524.0
37.5°	11290.8	10497.0	8980.1	6769.8	5515.6	4830.9	4606.6	4441.4	4270.2	4090.2	4066.6
40°	12102.4	11314.4	8989.0	6232.7	4946.0	4521.1	4332.2	4116.8	3904.3	3703.6	3677.0
42.5°	12955.2	12075.8	8832.6	5613.0	4479.7	4252.5	4060.7	3789.2	3550.1	3414.4	3399.6
45°	13716.6	12689.6	8478.5	4960.8	4134.5	4028.2	3783.3	3491.1	3364.2	3266.8	3246.2
47.5°	14315.7	13096.9	8000.4	4376.5	3854.1	3798.0	3479.3	3328.8	3231.4	3142.9	3122.2
50°	14610.8	13188.4	7377.7	3901.3	3594.4	3526.5	3308.2	3193.1	3128.1	3057.3	3039.6
52.5°	14976.7	13291.7	6840.6	3502.9	3340.6	3249.1	3166.5	3075.0	3027.8	2983.5	2968.8
55°	15817.8	13681.2	6557.3	3184.2	3098.6	3057.3	3045.5	2968.8	2954.0	2924.5	2898.0
57.5°	16160.1	13430.4	5887.4	2924.5	2906.8	2912.7	2942.2	2871.4	2856.6	2821.2	2803.5
60°	12996.6	10151.7	3986.9	2700.2	2747.5	2785.8	2815.3	2744.5	2723.8	2717.9	2694.3
62.5°	8327.9	6244.5	2782.9	2490.7	2561.5	2608.8	2626.5	2558.6	2543.8	2591.0	2594.0
65°	4335.1	3402.6	2257.6	2266.4	2325.5	2396.3	2431.7	2408.1	2402.2	2452.3	2455.3
67.5°	2213.3	2080.5	1968.4	2000.8	2048.0	2139.5	2222.2	2325.5	2360.9	2366.8	2369.7
70°	1885.7	1826.7	1770.6	1791.3	1841.5	1891.6	1971.3	2021.5	1962.5	1947.7	1941.8
72.5°	1605.4	1561.1	1534.6	1558.2	1584.7	1575.9	1552.3	1575.9	1584.7	1587.7	1590.6
75°	1248.3	1215.8	1195.2	1198.1	1198.1	1165.7	1121.4	1094.9	1065.3	1041.7	1041.7
77.5°	764.3	770.2	790.9	787.9	785.0	773.2	728.9	705.3	634.5	613.8	613.8
80°	436.8	445.6	466.3	472.2	472.2	457.4	413.2	386.6	354.1	339.4	336.4
82.5°	265.6	277.4	289.2	295.1	298.1	280.4	242.0	221.3	203.6	188.9	188.9
85°	138.7	144.6	156.4	159.4	150.5	132.8	112.1	103.3	85.6	82.6	82.6
87.5°	38.4	41.3	47.2	38.4	35.4	26.6	14.8	11.8	5.9	3.0	3.0
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)