

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: P641031

Luminaire Tested: GWS-SA5F-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641031
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-SA5F-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26954.6 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

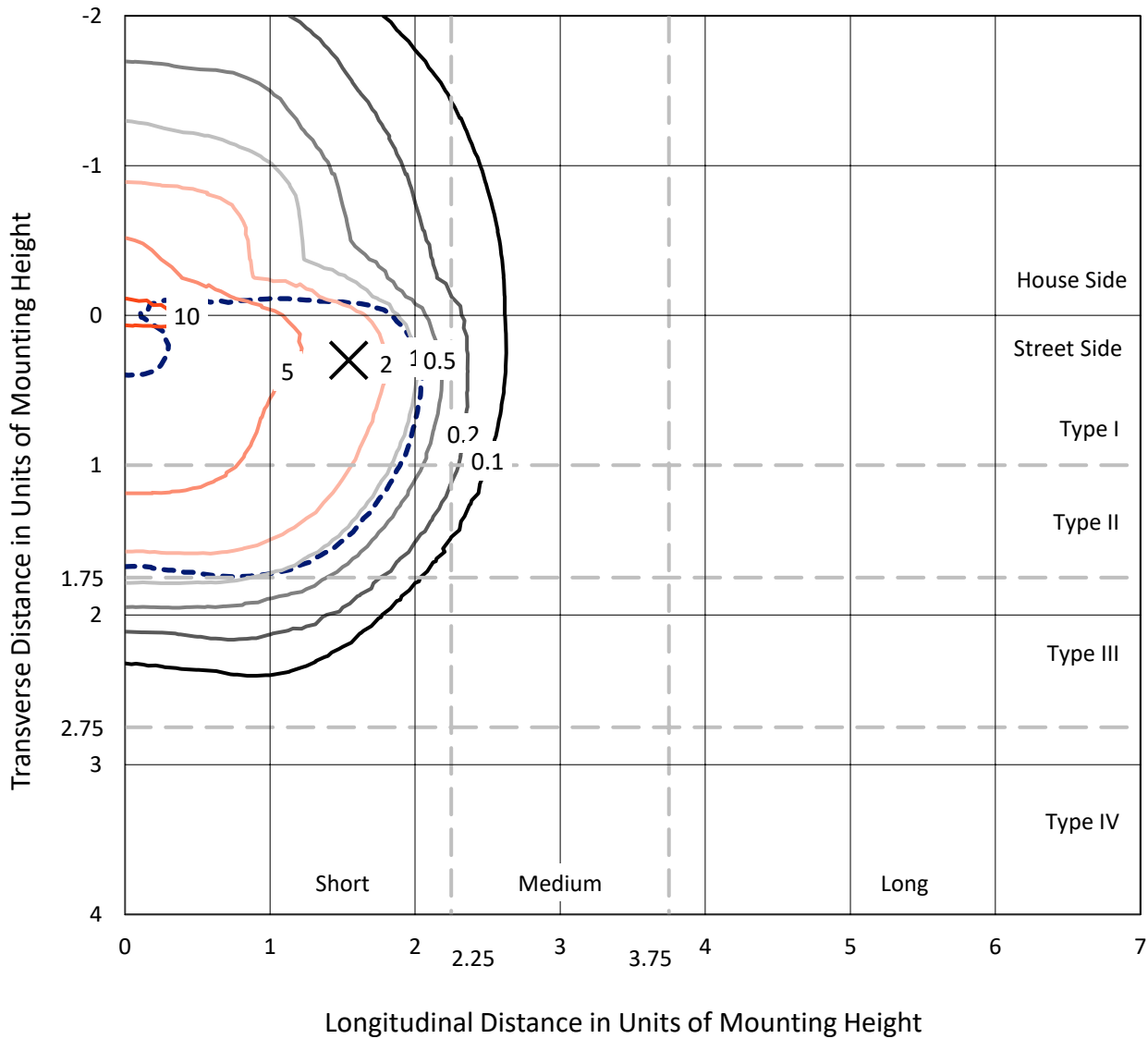
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

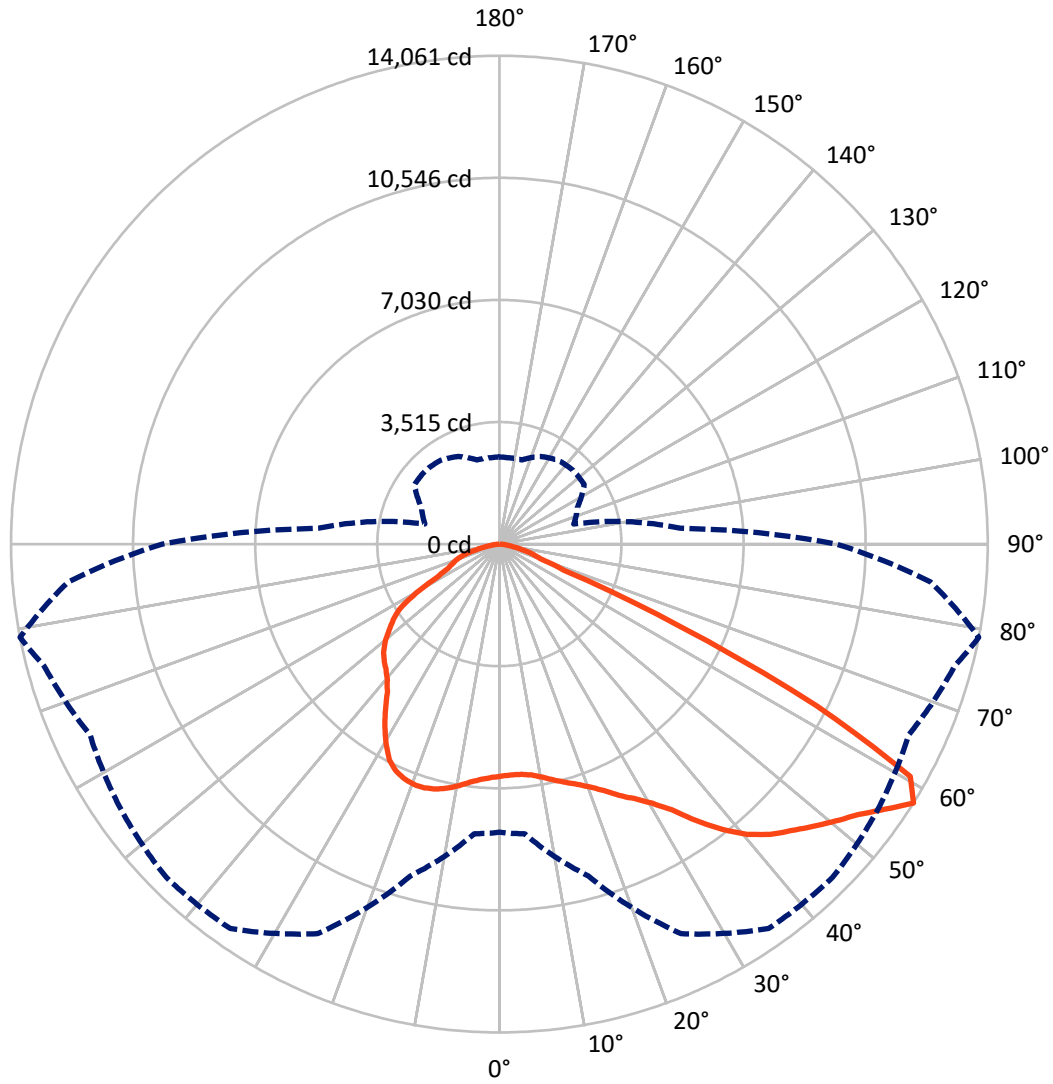
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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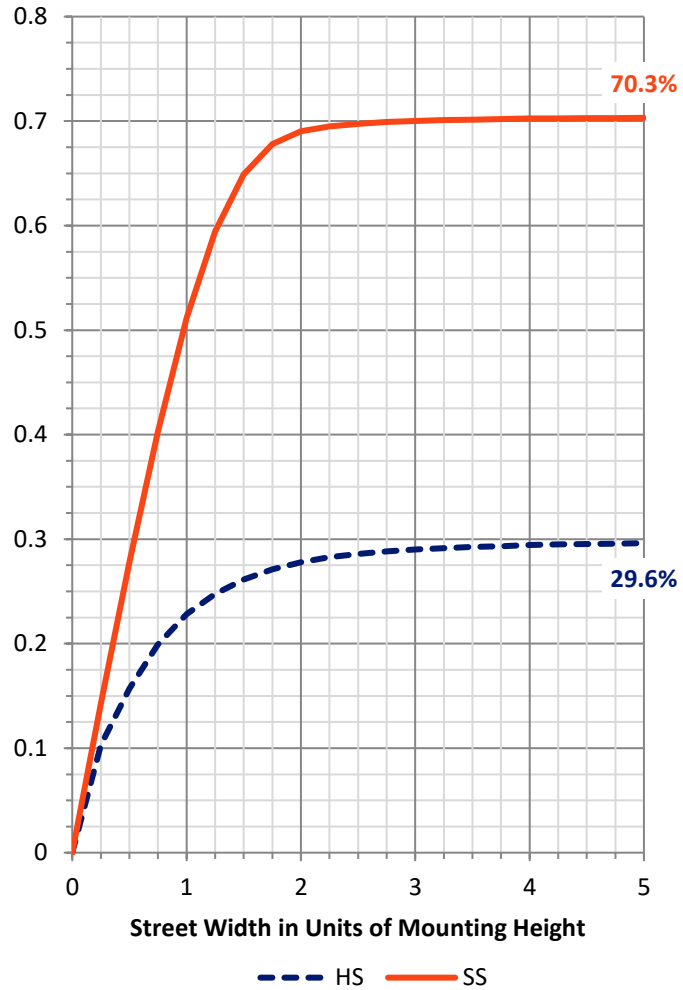
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8012.4	0.0	8012.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	18942.2	0.0	18942.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	26954.6	0.0	26954.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.6	2.3
10°-20°	1719.2	6.4
20°-30°	2914.0	10.8
30°-40°	4460.3	16.5
40°-50°	5947.4	22.1
50°-60°	6868.8	25.5
60°-70°	3569.3	13.2
70°-80°	758.7	2.8
80°-90°	98.3	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°	26954.6	100.0
0°-180°	26954.6	100.0

Coefficient of Utilization



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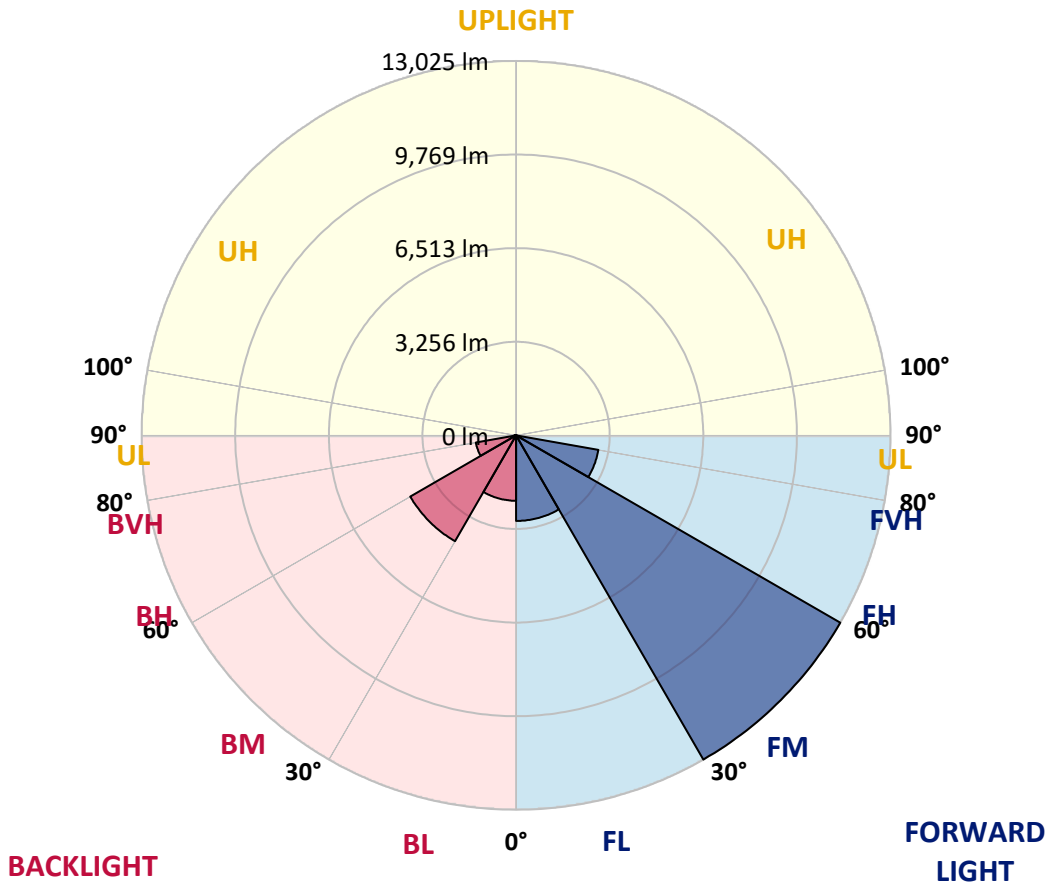
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2976.4	11.0			
FM (30°-60°)	13025.2	48.3			
FH (60°-80°)	2906.4	10.8			G2/5000
FVH (80°-90°)	34.3	0.1			G1/100
BL (0°-30°)	2275.4	8.4	B3/2500		
BM (30°-60°)	4251.3	15.8	B3/5000		
BH (60°-80°)	1421.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6375.8	6362.6	6367.0	6384.7	6450.8	6499.3	6549.9	6596.2	6640.3	6653.5	6664.5
5°	6148.8	6124.6	6131.2	6159.9	6237.0	6318.5	6408.9	6519.1	6624.9	6660.1	6706.4
7.5°	5988.0	5983.5	5994.6	6038.6	6120.2	6197.3	6314.1	6470.6	6653.5	6713.0	6794.6
10°	5774.2	5765.4	5809.4	5899.8	6034.2	6157.7	6296.5	6481.6	6737.3	6825.4	6951.1
12.5°	5604.5	5600.1	5646.4	5772.0	5943.9	6140.0	6331.8	6538.9	6849.7	6970.9	7125.2
15°	5703.7	5683.8	5686.0	5774.2	5928.4	6159.9	6419.9	6642.5	6962.1	7116.3	7314.7
17.5°	5992.4	5957.1	5930.7	5946.1	6034.2	6274.5	6554.4	6781.4	7092.1	7272.8	7515.2
20°	6391.3	6371.4	6298.7	6250.2	6270.1	6481.6	6765.9	6977.5	7261.8	7464.6	7724.6
22.5°	6926.8	6878.3	6779.1	6702.0	6642.5	6807.8	7070.1	7253.0	7497.6	7709.2	7980.3
25°	7590.2	7519.7	7363.2	7242.0	7114.1	7283.8	7517.4	7656.3	7821.6	8017.7	8275.6
27.5°	8266.8	8207.3	8033.2	7870.1	7711.4	7817.2	8094.9	8174.2	8156.6	8299.8	8520.2
30°	8987.4	8912.5	8747.2	8570.9	8365.9	8434.3	8683.3	8723.0	8535.6	8654.7	8804.5
32.5°	9747.8	9675.1	9531.8	9326.8	9095.4	9121.9	9190.2	9227.7	9049.1	9117.5	9232.1
35°	10521.3	10453.0	10307.6	10104.8	9935.1	9774.2	9602.3	9752.2	9648.6	9780.8	9772.0
37.5°	11228.8	11160.5	11070.1	10913.6	10622.7	10305.4	9908.7	10093.8	10254.7	10422.2	10393.5
40°	11707.0	11660.8	11682.8	11658.5	11283.9	10655.8	10058.5	10261.3	10699.9	10986.4	10970.9
42.5°	12119.2	12072.9	12200.7	12293.3	11852.5	10979.8	10131.3	10325.2	10984.2	11431.5	11409.5
45°	12302.1	12288.9	12500.4	12793.5	12372.6	11323.6	10318.6	10457.4	11200.1	11773.1	11689.4
47.5°	12083.9	12130.2	12546.7	13042.6	12804.6	11731.3	10702.1	10737.3	11482.2	12143.4	11907.6
50°	11649.7	11751.1	12313.1	13049.2	13119.7	12191.9	11233.2	11145.0	11861.3	12537.9	12022.2
52.5°	11017.2	11123.0	12039.8	12998.5	13300.4	12725.2	11940.6	11815.0	12339.5	12932.4	12042.0
55°	9564.9	9708.1	11413.9	12883.9	13476.8	13210.1	12738.5	12482.8	12956.6	13474.5	12238.2
57.5°	8297.6	8372.6	9888.8	12374.8	13512.0	13567.1	13307.1	13002.9	13569.3	14060.8	12458.6
60°	6089.3	6107.0	7471.2	10239.2	12429.9	13359.9	13260.8	12809.0	13278.4	13591.4	11449.2
62.5°	3440.3	3442.5	4531.2	6834.2	9285.0	10889.4	10951.1	10552.2	10157.7	10250.3	7969.2
65°	1291.5	1412.7	2069.4	3358.7	5353.2	6428.7	6684.4	6776.9	6120.2	5712.5	4273.3
67.5°	863.9	892.6	1207.7	1727.8	2382.4	2750.4	3076.6	3085.4	2256.8	2012.1	1683.8
70°	659.0	687.6	949.9	1236.4	1207.7	1115.2	1205.5	1172.5	1212.1	1245.2	1280.5
72.5°	491.5	520.1	736.1	872.7	725.1	714.1	808.8	899.2	982.9	1018.2	1073.3
75°	326.2	348.2	495.9	467.2	401.1	473.8	590.6	681.0	729.5	771.4	813.2
77.5°	207.2	222.6	264.5	213.8	222.6	277.7	343.8	425.3	471.6	513.5	535.5
80°	94.8	92.6	90.4	101.4	125.6	163.1	207.2	255.7	290.9	308.5	321.8
82.5°	37.5	41.9	46.3	55.1	68.3	88.2	116.8	149.9	178.5	182.9	193.9
85°	15.4	17.6	19.8	24.2	30.9	39.7	48.5	68.3	86.0	92.6	99.2
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	6.6	11.0	19.8	22.0	24.2
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°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6724.1	6695.4	6743.9	6776.9	6807.8	6774.7	6763.7	6735.1	6730.7	6730.7	6746.1
5°	6785.8	6765.9	6816.6	6836.4	6834.2	6761.5	6717.4	6660.1	6631.5	6631.5	6635.9
7.5°	6896.0	6884.9	6913.6	6882.7	6812.2	6664.5	6519.1	6397.9	6316.3	6274.5	6287.7
10°	7078.9	7065.7	7041.4	6926.8	6724.1	6417.7	6120.2	5899.8	5767.6	5692.6	5697.0
12.5°	7257.4	7235.4	7149.4	6896.0	6479.4	5992.4	5602.3	5355.4	5210.0	5121.8	5102.0
15°	7453.5	7396.2	7211.1	6737.3	6080.5	5472.2	5064.5	4797.9	4641.4	4588.5	4586.3
17.5°	7640.9	7539.5	7204.5	6455.2	5602.3	4927.9	4518.0	4352.7	4326.2	4350.5	4357.1
20°	7830.4	7667.3	7131.8	6065.1	5033.7	4385.7	4174.2	4242.5	4341.7	4407.8	4423.2
22.5°	8026.5	7773.1	6966.5	5562.6	4434.2	4019.9	4108.0	4257.9	4381.3	4469.5	4478.3
25°	8246.9	7872.3	6719.6	4947.7	3953.8	3918.5	4092.6	4251.3	4383.5	4484.9	4502.5
27.5°	8372.6	7874.5	6373.6	4315.2	3733.4	3878.8	4055.1	4205.0	4337.2	4447.4	4467.3
30°	8496.0	7815.0	5824.9	3801.7	3669.5	3832.6	3991.2	4130.1	4255.7	4363.7	4387.9
32.5°	8670.1	7759.9	5192.4	3506.4	3632.0	3788.5	3918.5	4041.9	4138.9	4187.4	4200.6
35°	8886.1	7689.4	4520.2	3378.6	3607.8	3753.2	3867.8	3933.9	3808.3	3781.9	3810.5
37.5°	9188.0	7623.2	3850.2	3323.5	3592.3	3740.0	3841.4	3671.7	3517.4	3455.7	3477.7
40°	9514.2	7585.8	3396.2	3279.4	3598.9	3753.2	3731.2	3479.9	3257.3	3127.3	3122.9
42.5°	9791.9	7528.5	3105.3	3250.7	3616.6	3803.9	3581.3	3310.2	2979.7	2902.5	2904.7
45°	9979.2	7383.0	2951.0	3219.9	3632.0	3814.9	3510.8	3076.6	2840.8	2792.3	2790.1
47.5°	10056.3	7118.5	2851.8	3171.4	3629.8	3724.6	3367.5	2979.7	2743.8	2730.6	2739.4
50°	10005.6	6684.4	2750.4	3076.6	3576.9	3629.8	3202.2	2893.7	2677.7	2750.4	2803.3
52.5°	9818.3	6122.4	2629.2	2946.6	3482.1	3521.8	3118.5	2840.8	2629.2	2726.2	2768.1
55°	9769.8	5666.2	2475.0	2776.9	3341.1	3330.1	3030.3	2814.4	2596.2	2558.7	2565.3
57.5°	9705.9	5221.0	2219.3	2472.8	2984.1	3001.7	2946.6	2783.5	2510.2	2499.2	2510.2
60°	8432.1	4002.3	1979.1	2133.4	2450.7	2545.5	2851.8	2726.2	2371.4	2325.1	2322.9
62.5°	5507.5	2424.3	1760.9	1860.1	1996.7	2106.9	2600.6	2560.9	2219.3	2190.7	2210.5
65°	2962.0	1727.8	1602.2	1661.7	1736.7	1820.4	2155.4	2281.0	2005.5	1904.2	1906.4
67.5°	1514.1	1470.0	1483.2	1525.1	1582.4	1624.3	1738.9	1849.1	1710.2	1624.3	1622.1
70°	1295.9	1331.1	1351.0	1375.2	1412.7	1406.1	1417.1	1436.9	1425.9	1384.0	1381.8
72.5°	1104.1	1159.2	1163.7	1168.1	1181.3	1150.4	1130.6	1097.5	1099.7	1106.3	1108.6
75°	839.7	892.6	905.8	899.2	912.4	872.7	846.3	813.2	773.6	767.0	771.4
77.5°	546.6	588.4	608.3	603.9	610.5	579.6	566.4	531.1	484.9	467.2	467.2
80°	330.6	354.8	370.3	374.7	381.3	359.2	337.2	306.3	286.5	266.7	266.7
82.5°	200.6	216.0	227.0	227.0	233.6	209.4	191.7	169.7	160.9	143.3	143.3
85°	101.4	112.4	116.8	114.6	110.2	90.4	83.7	72.7	68.3	59.5	59.5
87.5°	24.2	30.9	30.9	22.0	22.0	11.0	6.6	2.2	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)