

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: P643946

Luminaire Tested: GWS-SA6F-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643946
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-SAGF-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34663.2 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

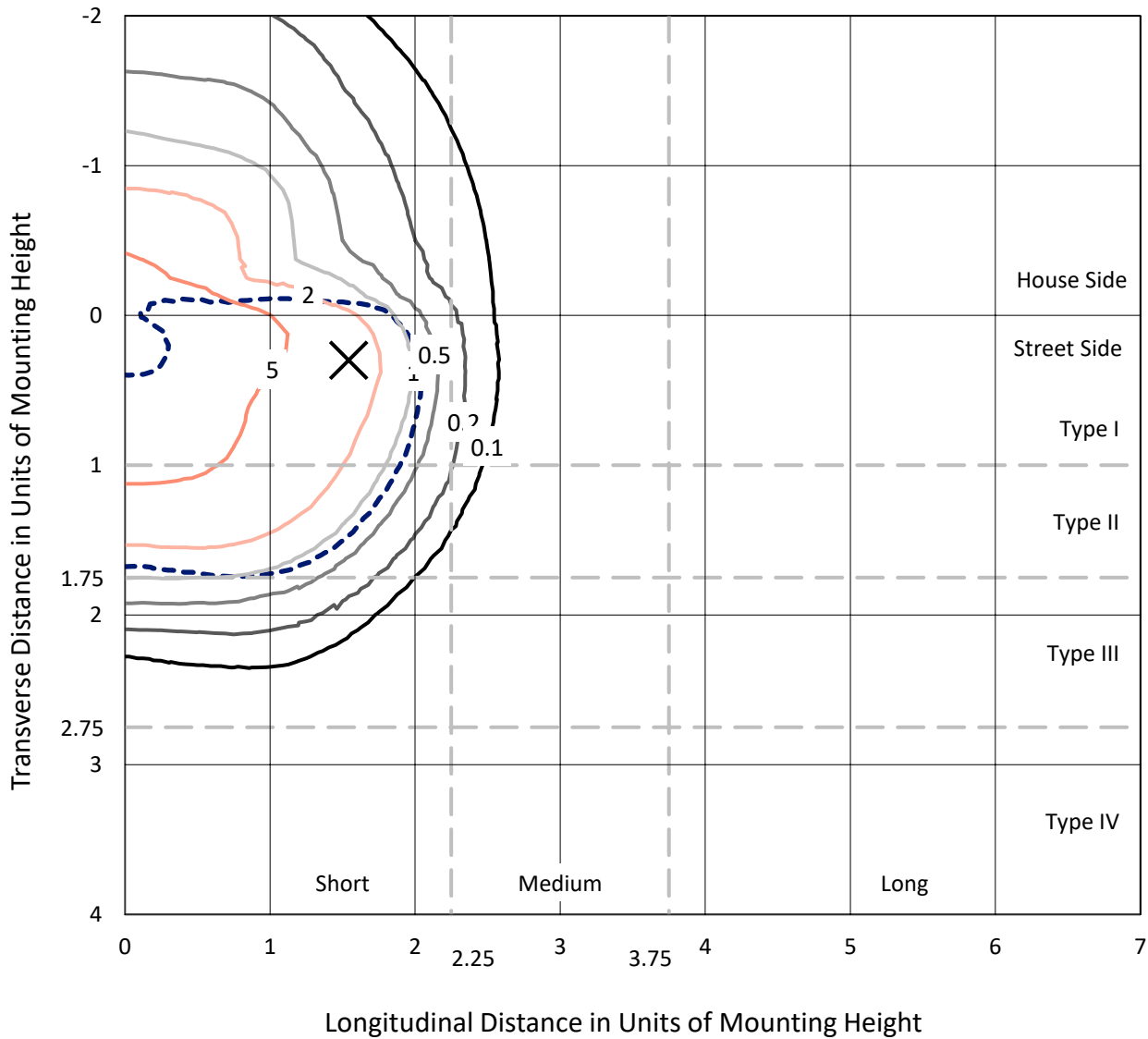
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

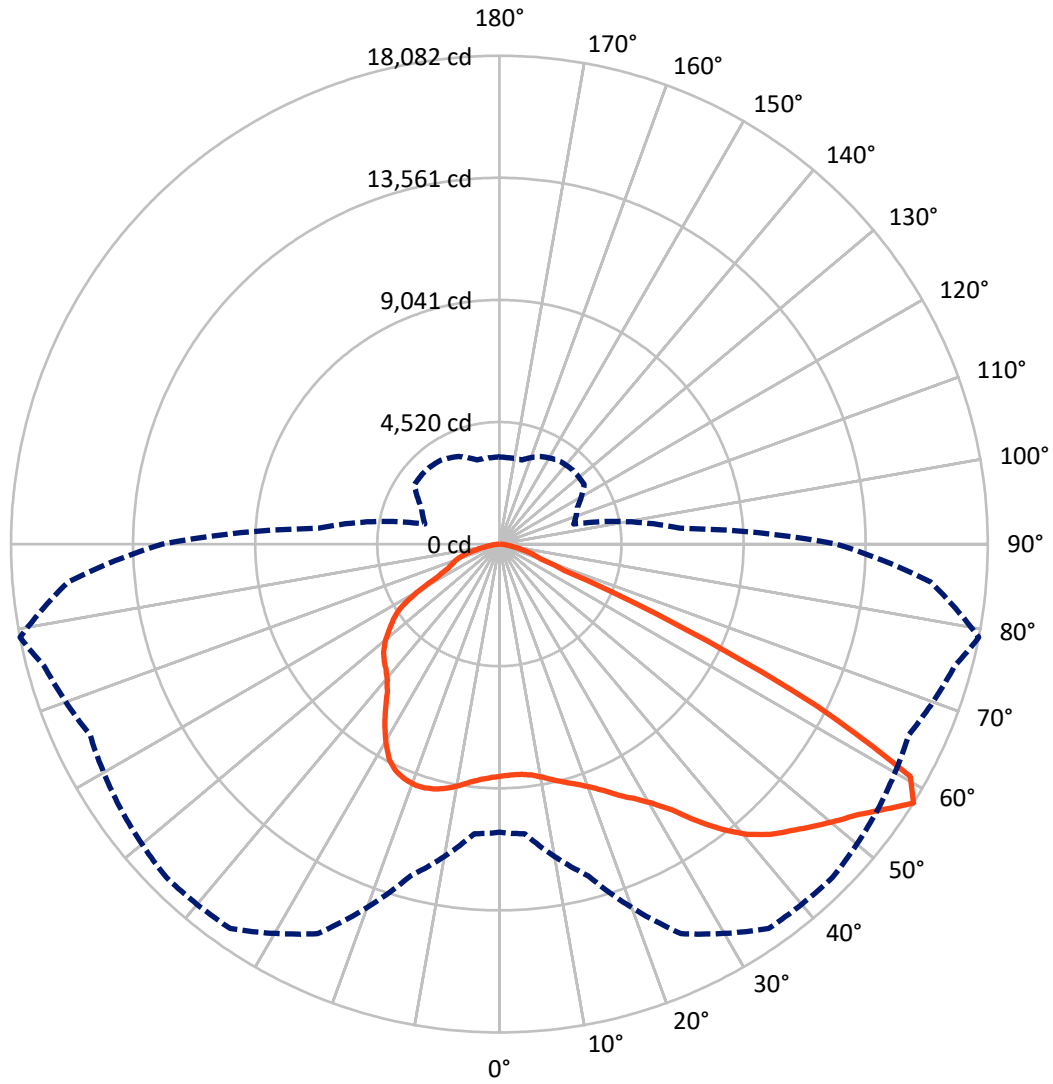
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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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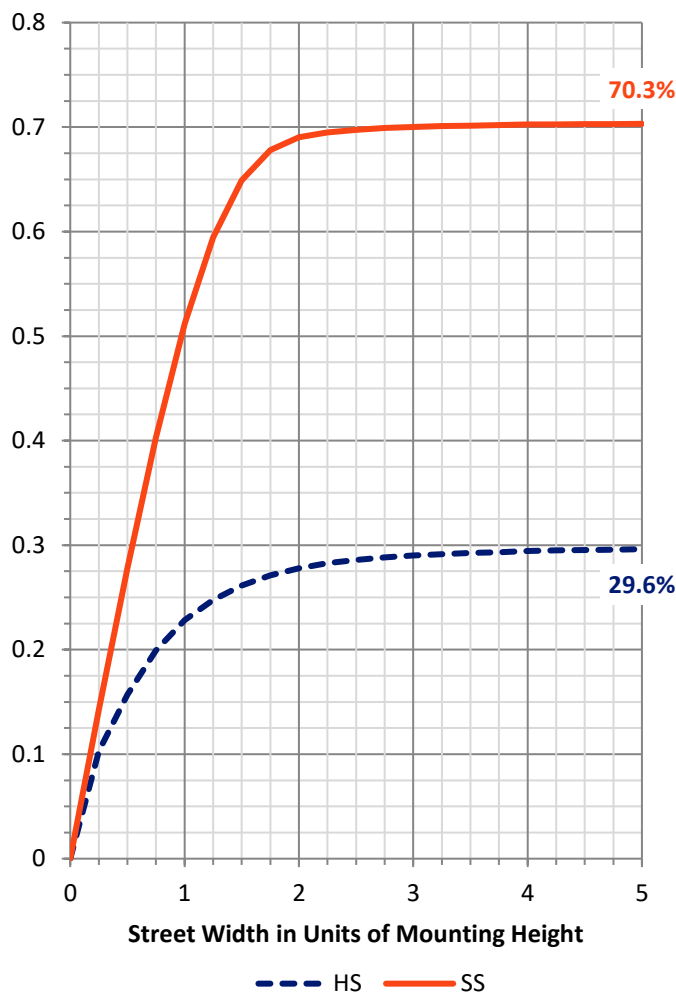
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10303.8	0.0	10303.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	24359.4	0.0	24359.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	34663.2	0.0	34663.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.5	2.3
10°-20°	2210.8	6.4
20°-30°	3747.4	10.8
30°-40°	5735.9	16.5
40°-50°	7648.3	22.1
50°-60°	8833.2	25.5
60°-70°	4590.0	13.2
70°-80°	975.7	2.8
80°-90°	126.4	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°	34663.2	100.0
0°-180°	34663.2	100.0

Coefficient of Utilization



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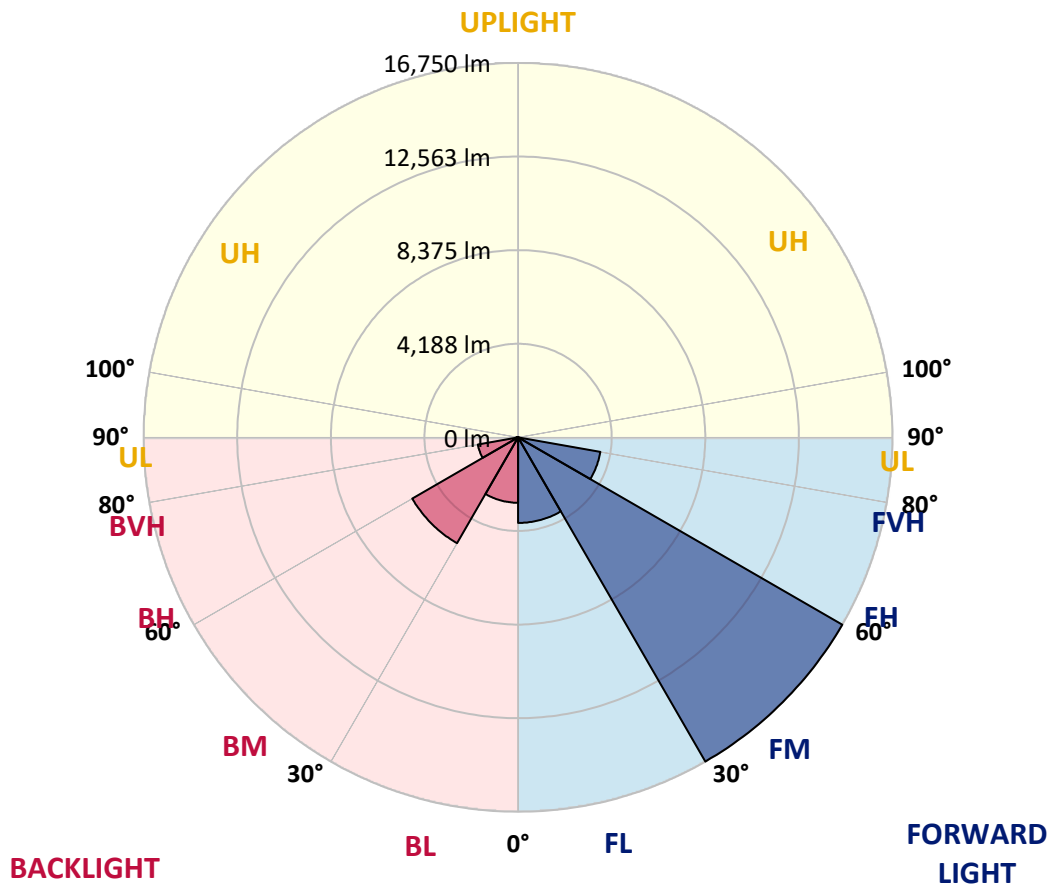
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3827.6	11.0			
FM (30°-60°)	16750.2	48.3			
FH (60°-80°)	3737.5	10.8			G2/5000
FVH (80°-90°)	44.1	0.1			G1/100
BL (0°-30°)	2926.2	8.4	B4/5000		
BM (30°-60°)	5467.1	15.8	B4/8500		
BH (60°-80°)	1828.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	82.3	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°	55°	65°	75°	79°	85°
0°	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3
2.5°	8199.2	8182.2	8187.9	8210.6	8295.6	8357.9	8423.1	8482.6	8539.3	8556.3	8570.5
5°	7907.3	7876.1	7884.6	7921.5	8020.7	8125.5	8241.7	8383.4	8519.5	8564.8	8624.4
7.5°	7700.4	7694.7	7708.9	7765.6	7870.5	7969.7	8119.9	8321.1	8556.3	8632.9	8737.7
10°	7425.5	7414.2	7470.8	7587.0	7759.9	7918.6	8097.2	8335.3	8664.0	8777.4	8938.9
12.5°	7207.3	7201.6	7261.1	7422.7	7643.7	7896.0	8142.5	8409.0	8808.6	8964.5	9162.8
15°	7334.8	7309.3	7312.1	7425.5	7623.9	7921.5	8255.9	8542.2	8953.1	9151.5	9406.6
17.5°	7706.1	7660.7	7626.7	7646.6	7759.9	8068.9	8428.8	8720.7	9120.3	9352.7	9664.5
20°	8219.1	8193.6	8100.0	8037.7	8063.2	8335.3	8700.9	8973.0	9338.6	9599.3	9933.7
22.5°	8907.8	8845.4	8717.9	8618.7	8542.2	8754.7	9092.0	9327.2	9641.8	9913.9	10262.5
25°	9760.9	9670.2	9468.9	9313.1	9148.7	9366.9	9667.3	9845.9	10058.4	10310.7	10642.3
27.5°	10630.9	10554.4	10330.5	10120.8	9916.7	10052.8	10409.9	10511.9	10489.2	10673.5	10956.9
30°	11557.7	11461.3	11248.8	11022.1	10758.5	10846.3	11166.6	11217.6	10976.7	11129.8	11322.5
32.5°	12535.5	12442.0	12257.7	11994.2	11696.6	11730.6	11818.5	11866.6	11637.1	11724.9	11872.3
35°	13530.3	13442.4	13255.4	12994.6	12776.4	12569.5	12348.4	12541.2	12408.0	12578.0	12566.7
37.5°	14440.1	14352.2	14236.0	14034.8	13660.7	13252.5	12742.4	12980.5	13187.4	13402.7	13365.9
40°	15055.1	14995.5	15023.9	14992.7	14510.9	13703.2	12935.1	13195.9	13759.9	14128.3	14108.5
42.5°	15585.1	15525.5	15689.9	15809.0	15242.1	14119.8	13028.6	13278.0	14125.5	14700.8	14672.5
45°	15820.3	15803.3	16075.4	16452.3	15911.0	14561.9	13269.5	13448.1	14403.2	15140.1	15032.4
47.5°	15539.7	15599.2	16134.9	16772.6	16466.5	15086.2	13762.7	13808.0	14766.0	15616.2	15313.0
50°	14981.4	15111.7	15834.5	16781.1	16871.8	15678.6	14445.7	14332.4	15253.5	16123.5	15460.3
52.5°	14168.0	14304.0	15483.0	16715.9	17104.2	16364.4	15355.5	15193.9	15868.5	16630.9	15485.9
55°	12300.3	12484.5	14678.1	16568.5	17330.9	16988.0	16381.5	16052.7	16662.0	17328.1	15738.1
57.5°	10670.6	10767.0	12716.9	15913.8	17376.2	17447.1	17112.7	16721.6	17449.9	18081.9	16021.5
60°	7830.8	7853.5	9607.8	13167.5	15984.7	17180.7	17053.1	16472.1	17075.8	17478.3	14723.5
62.5°	4424.1	4427.0	5827.0	8788.7	11940.3	14003.6	14082.9	13570.0	13062.6	13181.7	10248.3
65°	1660.8	1816.7	2661.3	4319.3	6884.2	8267.2	8596.0	8715.0	7870.5	7346.1	5495.4
67.5°	1111.0	1147.8	1553.1	2222.0	3063.7	3537.0	3956.5	3967.8	2902.2	2587.6	2165.3
70°	847.4	884.3	1221.5	1590.0	1553.1	1434.1	1550.3	1507.8	1558.8	1601.3	1646.6
72.5°	632.0	668.9	946.6	1122.3	932.4	918.3	1040.1	1156.3	1264.0	1309.4	1380.2
75°	419.5	447.8	637.7	600.8	515.8	609.3	759.6	875.8	938.1	992.0	1045.8
77.5°	266.4	286.3	340.1	274.9	286.3	357.1	442.1	547.0	606.5	660.4	688.7
80°	121.9	119.0	116.2	130.4	161.5	209.7	266.4	328.8	374.1	396.8	413.8
82.5°	48.2	53.8	59.5	70.9	87.9	113.4	150.2	192.7	229.6	235.2	249.4
85°	19.8	22.7	25.5	31.2	39.7	51.0	62.4	87.9	110.5	119.0	127.5
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	8.5	14.2	25.5	28.3	31.2
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°	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3
2.5°	8647.0	8610.2	8672.5	8715.0	8754.7	8712.2	8698.0	8661.2	8655.5	8655.5	8675.4
5°	8726.4	8700.9	8766.1	8791.6	8788.7	8695.2	8638.5	8564.8	8528.0	8528.0	8533.7
7.5°	8868.1	8853.9	8890.8	8851.1	8760.4	8570.5	8383.4	8227.6	8122.7	8068.9	8085.9
10°	9103.3	9086.3	9055.1	8907.8	8647.0	8253.1	7870.5	7587.0	7417.0	7320.6	7326.3
12.5°	9332.9	9304.6	9194.0	8868.1	8332.4	7706.1	7204.4	6887.0	6700.0	6586.6	6561.1
15°	9585.1	9511.4	9273.4	8664.0	7819.5	7037.2	6512.9	6170.0	5968.7	5900.7	5897.9
17.5°	9826.0	9695.7	9264.9	8301.3	7204.4	6337.2	5810.0	5597.5	5563.5	5594.6	5603.1
20°	10069.8	9860.0	9171.3	7799.6	6473.2	5640.0	5367.9	5455.8	5583.3	5668.3	5688.2
22.5°	10322.0	9996.1	8958.8	7153.4	5702.3	5169.5	5282.9	5475.6	5634.3	5747.7	5759.0
25°	10605.4	10123.6	8641.4	6362.7	5084.5	5039.1	5263.0	5467.1	5637.1	5767.5	5790.2
27.5°	10767.0	10126.5	8196.4	5549.3	4801.1	4988.1	5214.9	5407.6	5577.6	5719.3	5744.8
30°	10925.7	10049.9	7490.7	4888.9	4718.9	4928.6	5132.7	5311.2	5472.8	5611.6	5642.8
32.5°	11149.6	9979.1	6677.3	4509.2	4670.7	4871.9	5039.1	5197.9	5322.6	5384.9	5401.9
35°	11427.3	9888.4	5812.9	4344.8	4639.5	4826.6	4974.0	5059.0	4897.4	4863.4	4900.3
37.5°	11815.6	9803.4	4951.3	4273.9	4619.7	4809.6	4939.9	4721.7	4523.3	4444.0	4472.3
40°	12235.1	9755.2	4367.4	4217.2	4628.2	4826.6	4798.2	4475.1	4188.9	4021.7	4016.0
42.5°	12592.2	9681.5	3993.3	4180.4	4650.9	4891.8	4605.5	4256.9	3831.8	3732.6	3735.4
45°	12833.1	9494.4	3794.9	4140.7	4670.7	4905.9	4514.8	3956.5	3653.2	3590.9	3588.0
47.5°	12932.3	9154.3	3667.4	4078.4	4667.9	4789.7	4330.6	3831.8	3528.5	3511.5	3522.9
50°	12867.1	8596.0	3537.0	3956.5	4599.8	4667.9	4118.0	3721.3	3443.5	3537.0	3605.1
52.5°	12626.2	7873.3	3381.2	3789.3	4478.0	4529.0	4010.3	3653.2	3381.2	3505.9	3559.7
55°	12563.8	7286.6	3182.8	3571.0	4296.6	4282.4	3897.0	3619.2	3338.6	3290.5	3299.0
57.5°	12481.6	6714.1	2854.0	3179.9	3837.5	3860.1	3789.3	3579.5	3228.1	3213.9	3228.1
60°	10843.5	5146.8	2545.1	2743.5	3151.6	3273.5	3667.4	3505.9	3049.6	2990.0	2987.2
62.5°	7082.6	3117.6	2264.5	2392.0	2567.7	2709.5	3344.3	3293.3	2854.0	2817.2	2842.7
65°	3809.1	2222.0	2060.4	2137.0	2233.3	2341.0	2771.8	2933.4	2579.1	2448.7	2451.5
67.5°	1947.1	1890.4	1907.4	1961.2	2034.9	2088.8	2236.2	2377.9	2199.3	2088.8	2085.9
70°	1666.5	1711.8	1737.3	1768.5	1816.7	1808.2	1822.4	1847.9	1833.7	1779.9	1777.0
72.5°	1419.9	1490.8	1496.4	1502.1	1519.1	1479.4	1453.9	1411.4	1414.2	1422.7	1425.6
75°	1079.8	1147.8	1164.8	1156.3	1173.3	1122.3	1088.3	1045.8	994.8	986.3	992.0
77.5°	702.9	756.7	782.2	776.6	785.1	745.4	728.4	683.0	623.5	600.8	600.8
80°	425.1	456.3	476.1	481.8	490.3	462.0	433.6	393.9	368.4	342.9	342.9
82.5°	257.9	277.7	291.9	291.9	300.4	269.2	246.6	218.2	206.9	184.2	184.2
85°	130.4	144.5	150.2	147.4	141.7	116.2	107.7	93.5	87.9	76.5	76.5
87.5°	31.2	39.7	39.7	28.3	28.3	14.2	8.5	2.8	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)