

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: P642929

Luminaire Tested: GWS-SA6D-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-830-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 23830.7 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

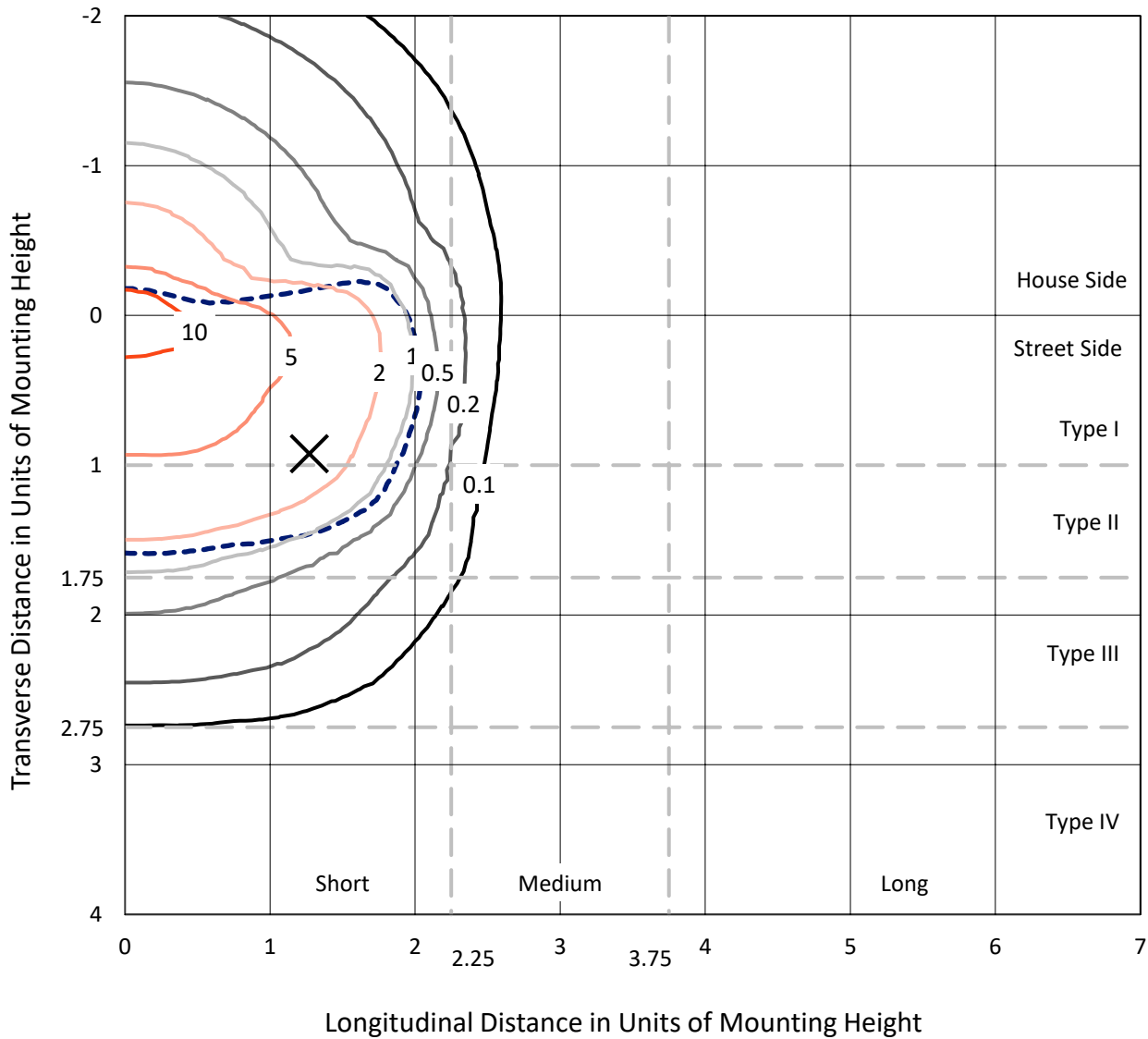
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

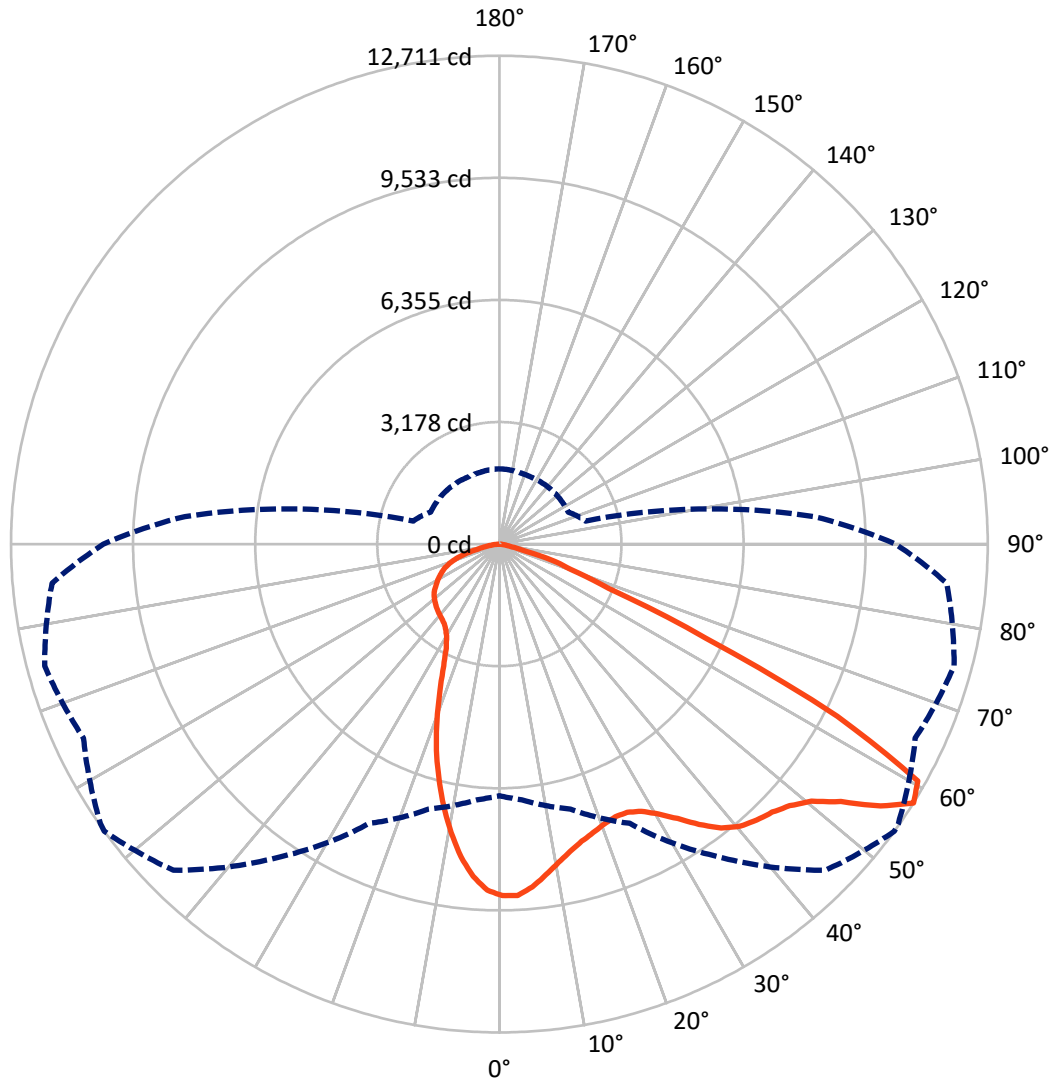
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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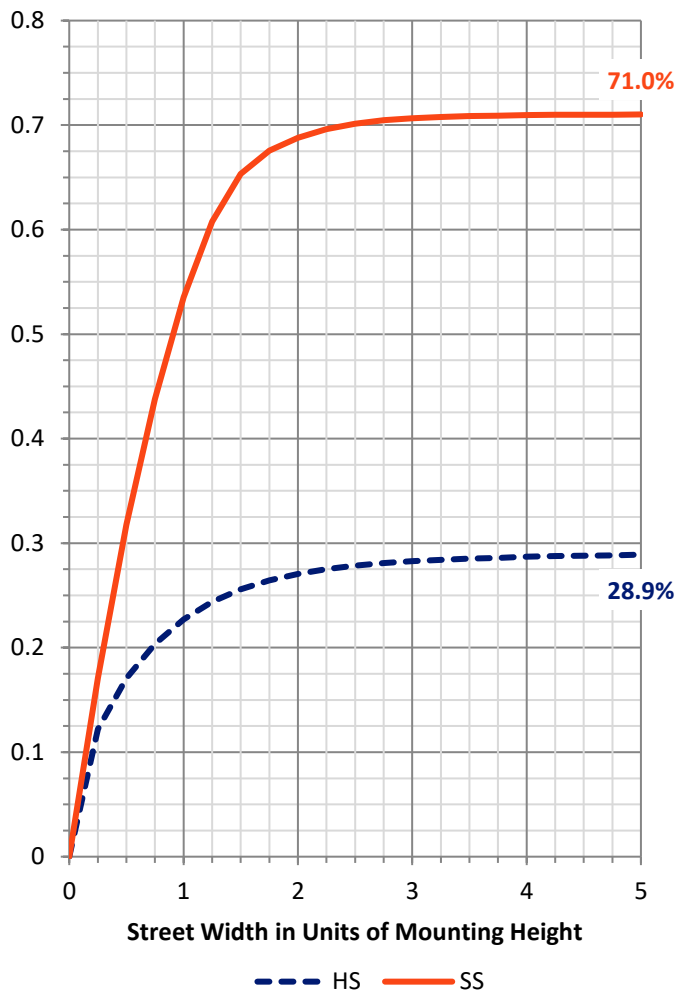
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6927.9	0.0	6927.9
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	16902.8	0.0	16902.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	23830.7	0.0	23830.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.2	3.4
10°-20°	1918.9	8.1
20°-30°	2655.5	11.1
30°-40°	3689.8	15.5
40°-50°	4873.1	20.4
50°-60°	5791.0	24.3
60°-70°	3208.3	13.5
70°-80°	798.9	3.4
80°-90°	90.9	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°	23830.7	100.0
0°-180°	23830.7	100.0

Coefficient of Utilization



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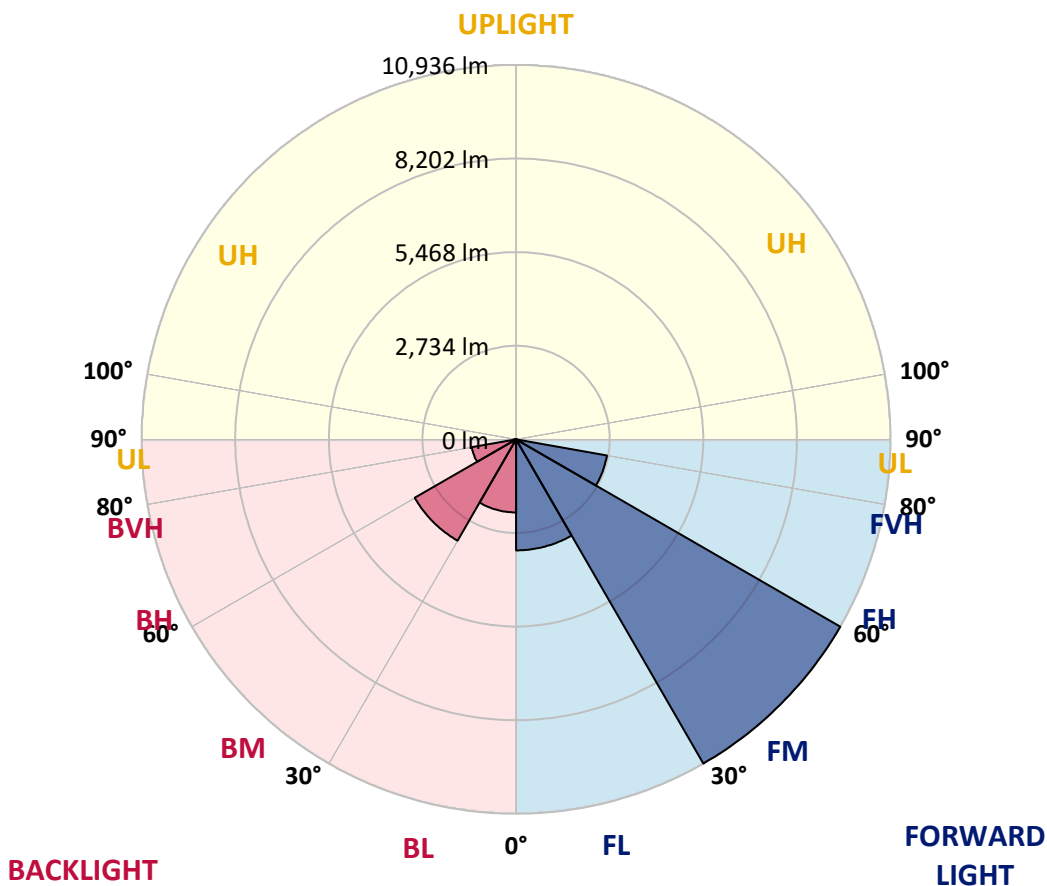
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.7	13.6			
FM (30°-60°)	10936.3	45.9			
FH (60°-80°)	2694.4	11.3			G2/5000
FVH (80°-90°)	28.4	0.1			G1/100
BL (0°-30°)	2134.9	9.0	B3/2500		
BM (30°-60°)	3417.7	14.3	B3/5000		
BH (60°-80°)	1312.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	62.4	0.3			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°	54°	55°	65°	75°	85°
0°	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1
2.5°	8977.8	8996.2	9008.4	9051.2	9087.9	9120.6	9155.3	9155.3	9153.2	9147.1	9134.9
5°	8622.8	8643.2	8671.8	8731.0	8810.5	8867.6	8961.5	8969.6	9010.4	9026.8	9018.6
7.5°	8210.8	8216.9	8253.6	8331.1	8457.6	8559.6	8694.2	8710.6	8808.5	8865.6	8855.4
10°	7759.9	7739.5	7804.8	7919.1	8084.3	8255.7	8429.0	8443.3	8600.4	8708.5	8700.4
12.5°	7347.9	7349.9	7415.2	7553.9	7759.9	7972.1	8204.7	8237.3	8431.1	8569.8	8555.5
15°	7003.1	7011.3	7090.8	7247.9	7482.5	7735.5	8025.1	8055.7	8300.5	8484.1	8443.3
17.5°	6727.7	6735.9	6805.3	6984.8	7235.7	7541.7	7894.6	7925.2	8229.1	8447.4	8363.8
20°	6538.0	6533.9	6601.3	6772.6	7031.7	7364.2	7780.3	7825.2	8206.7	8461.7	8310.7
22.5°	6460.5	6458.5	6507.4	6648.2	6890.9	7227.5	7711.0	7772.2	8231.2	8524.9	8278.1
25°	6499.3	6491.1	6533.9	6638.0	6831.8	7174.5	7731.4	7796.7	8335.2	8655.5	8284.2
27.5°	6619.6	6609.4	6646.1	6740.0	6886.8	7229.6	7874.2	7949.7	8555.5	8894.2	8365.8
30°	6803.2	6797.1	6833.8	6923.6	7052.1	7413.2	8147.5	8233.2	8896.2	9265.4	8543.3
32.5°	7017.4	7007.2	7072.5	7176.5	7325.4	7747.7	8514.7	8626.9	9300.1	9742.8	8841.1
35°	7258.1	7250.0	7339.7	7490.7	7704.9	8212.8	8959.4	9081.8	9712.2	10283.4	9236.9
37.5°	7492.7	7492.7	7666.1	7890.5	8159.8	8718.7	9377.6	9455.1	9997.8	10762.7	9661.2
40°	7700.8	7713.0	7974.1	8310.7	8653.4	9175.7	9653.0	9718.3	10124.2	11093.2	10030.4
42.5°	7931.3	7941.5	8245.5	8686.1	9094.1	9544.9	9820.3	9852.9	10148.7	11258.4	10291.5
45°	8114.9	8129.2	8506.6	8977.8	9477.6	9822.3	9952.9	9981.4	10183.4	11348.2	10481.2
47.5°	8210.8	8231.2	8663.6	9212.4	9736.7	10071.2	10171.2	10183.4	10326.2	11505.3	10709.7
50°	8194.5	8235.3	8722.8	9328.7	9928.4	10322.1	10522.0	10542.4	10617.9	11735.8	10976.9
52.5°	8339.3	8357.6	8849.3	9467.4	10201.8	10785.2	11132.0	11160.5	11125.9	11909.2	11136.1
55°	8098.6	8186.3	8692.2	9447.0	10617.9	11501.2	12035.7	12021.4	11586.9	12103.0	11401.2
57.5°	6550.3	6678.8	7141.8	8019.0	9932.5	12003.0	12710.9	12676.2	11943.9	12251.9	11688.9
60°	4534.8	4555.2	4973.4	5595.6	7666.1	10603.6	12513.0	12588.5	12009.1	12064.2	11156.5
62.5°	3627.0	3620.9	3659.7	3676.0	4875.5	7454.0	9877.4	10152.8	9977.4	9400.1	7906.8
65°	3096.6	3119.1	3233.3	3174.2	3182.3	4198.2	5901.6	5940.3	5817.9	5609.8	4181.9
67.5°	2423.5	2462.2	2664.2	2894.7	2821.2	2702.9	3062.0	3043.6	2399.0	1856.3	1534.0
70°	1517.7	1542.2	1758.4	2272.5	2456.1	2219.5	1968.5	1960.4	1285.2	1056.7	1158.7
72.5°	885.3	889.4	950.6	1266.8	1629.9	1517.7	1448.4	1395.3	826.2	842.5	924.1
75°	487.5	487.5	485.5	546.7	642.6	569.1	550.8	536.5	552.8	626.3	687.5
77.5°	102.0	104.0	110.2	144.8	187.7	228.5	287.6	289.7	361.1	418.2	467.1
80°	46.9	49.0	61.2	77.5	100.0	132.6	175.4	177.5	218.3	263.2	295.8
82.5°	24.5	26.5	32.6	40.8	53.0	69.4	97.9	97.9	130.6	155.0	175.4
85°	8.2	8.2	12.2	16.3	22.4	28.6	38.8	38.8	57.1	75.5	87.7
87.5°	0.0	0.0	0.0	0.0	2.0	4.1	8.2	8.2	10.2	12.2	20.4
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°	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1	9149.1
2.5°	9108.3	9045.1	9047.1	9059.4	9020.6	8961.5	8922.7	8873.8	8843.2	8837.0	8859.5
5°	8977.8	8904.4	8853.4	8800.3	8690.2	8559.6	8457.6	8374.0	8318.9	8298.5	8274.0
7.5°	8798.3	8702.4	8573.9	8425.0	8225.1	7992.5	7829.3	7676.3	7570.2	7539.6	7525.4
10°	8618.8	8480.0	8251.6	7974.1	7641.6	7327.5	7031.7	6805.3	6625.7	6523.7	6556.4
12.5°	8433.1	8261.8	7904.8	7478.4	7015.4	6542.1	6154.5	5779.2	5489.5	5344.7	5301.8
15°	8269.9	8037.4	7539.6	6962.3	6346.3	5750.6	5189.6	4626.6	4259.4	4059.5	4004.4
17.5°	8131.2	7829.3	7154.1	6436.0	5699.6	4851.0	4161.5	3639.3	3388.3	3278.2	3270.0
20°	7994.5	7625.3	6772.6	5868.9	4953.0	4002.4	3386.3	3141.5	3051.8	3013.0	3011.0
22.5°	7872.1	7411.1	6370.7	5301.8	4210.4	3363.9	3025.2	2919.2	2894.7	2894.7	2890.6
25°	7768.1	7196.9	5958.7	4700.0	3539.3	2994.6	2837.6	2792.7	2802.9	2821.2	2823.3
27.5°	7725.3	7029.6	5560.9	4081.9	3076.2	2780.4	2709.0	2702.9	2731.5	2760.0	2764.1
30°	7770.1	6915.4	5152.9	3490.3	2798.8	2649.9	2617.2	2629.5	2664.2	2692.7	2692.7
32.5°	7908.9	6858.3	4736.7	3057.9	2637.6	2558.1	2547.9	2560.1	2586.6	2603.0	2605.0
35°	8143.5	6880.7	4306.3	2766.2	2533.6	2490.8	2488.7	2496.9	2507.1	2517.3	2519.3
37.5°	8439.2	6980.7	3845.3	2596.8	2466.3	2441.8	2437.7	2435.7	2437.7	2437.7	2439.8
40°	8728.9	7131.6	3433.2	2496.9	2419.4	2399.0	2388.8	2374.5	2372.5	2368.4	2366.3
42.5°	8943.1	7247.9	3104.8	2425.5	2376.5	2352.1	2339.8	2317.4	2315.3	2313.3	2311.3
45°	9104.3	7345.8	2831.4	2356.1	2331.7	2309.2	2282.7	2262.3	2266.4	2270.5	2270.5
47.5°	9285.8	7431.5	2631.5	2290.9	2276.6	2254.1	2221.5	2207.2	2221.5	2235.8	2235.8
50°	9506.1	7551.9	2468.3	2225.6	2219.5	2192.9	2164.4	2158.3	2174.6	2195.0	2195.0
52.5°	9667.3	7655.9	2352.1	2160.3	2160.3	2125.6	2101.1	2099.1	2117.5	2137.9	2139.9
55°	9969.2	7898.7	2311.3	2084.8	2076.7	2050.1	2031.8	2017.5	2039.9	2058.3	2058.3
57.5°	10309.9	8221.0	2321.5	1976.7	1966.5	1958.3	1944.1	1927.7	1933.9	1954.3	1956.3
60°	9587.7	7596.7	2209.3	1868.6	1862.5	1858.4	1840.0	1811.5	1819.6	1835.9	1838.0
62.5°	6697.1	5048.9	1787.0	1734.0	1754.4	1752.3	1727.8	1695.2	1697.2	1719.7	1719.7
65°	3476.1	2731.5	1568.7	1611.6	1642.2	1629.9	1589.1	1560.6	1556.5	1585.0	1578.9
67.5°	1499.4	1491.2	1428.0	1483.0	1515.7	1489.2	1446.3	1399.4	1403.5	1413.7	1405.5
70°	1207.6	1244.4	1270.9	1330.0	1356.6	1307.6	1260.7	1234.2	1211.7	1209.7	1195.4
72.5°	964.9	1015.9	1075.1	1136.2	1144.4	1095.4	1036.3	1011.8	977.1	975.1	960.8
75°	726.2	769.1	816.0	864.9	864.9	818.0	779.3	767.0	726.2	714.0	701.7
77.5°	495.7	522.2	558.9	571.2	583.4	565.1	526.3	505.9	459.0	446.7	430.4
80°	312.1	330.5	352.9	361.1	373.3	350.9	320.3	297.8	265.2	255.0	246.8
82.5°	187.7	199.9	214.2	218.3	228.5	212.2	183.6	167.3	148.9	140.8	134.6
85°	95.9	102.0	110.2	112.2	110.2	93.8	83.6	75.5	63.2	61.2	57.1
87.5°	24.5	28.6	30.6	28.6	26.5	20.4	14.3	10.2	4.1	4.1	2.0
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)