

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: P636509

Luminaire Tested: GWS-SA3F-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-830-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

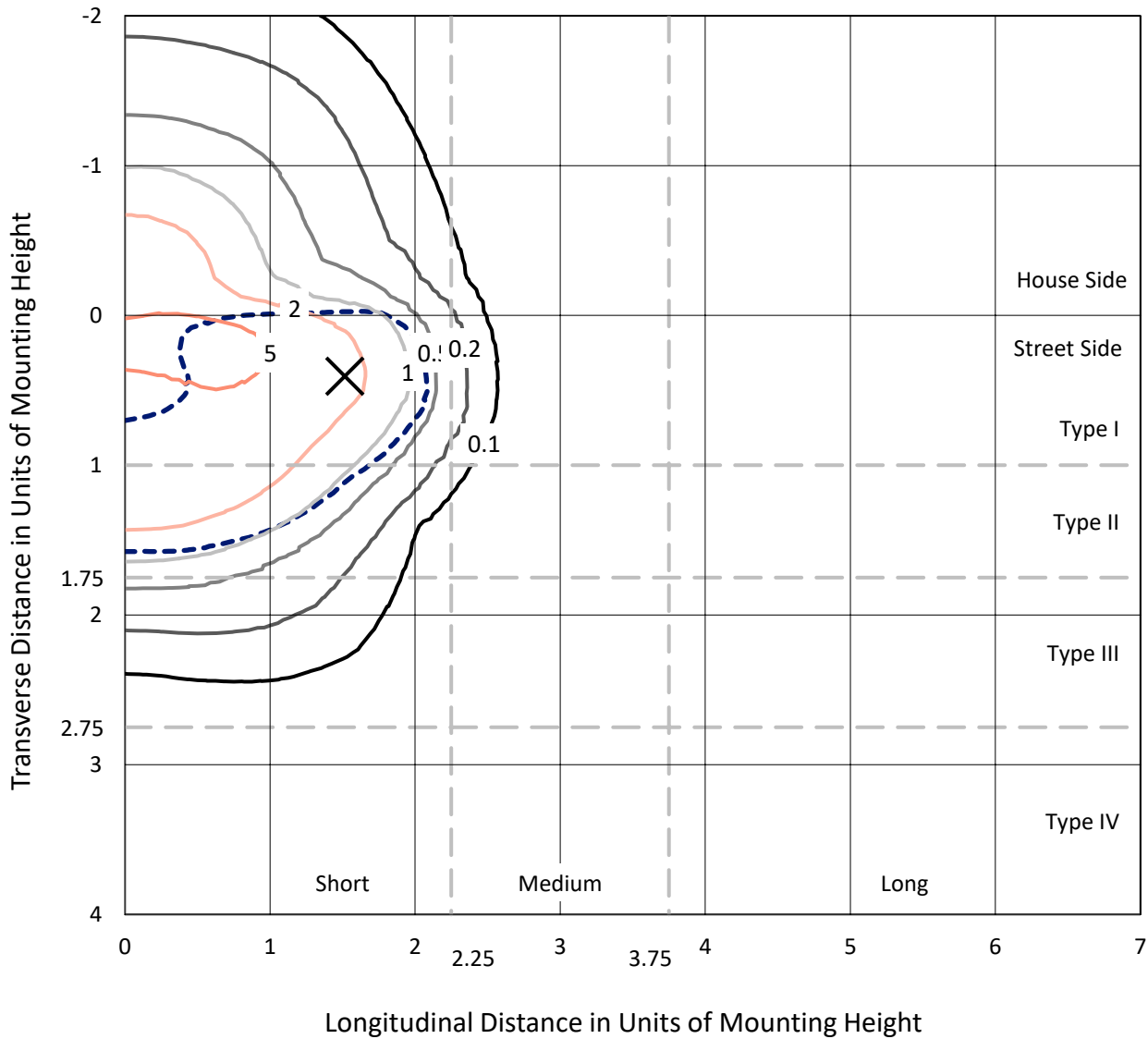
Lumens per Lamp: N/A  
Luminaire Lumens: 16193.6 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P636509  
 CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

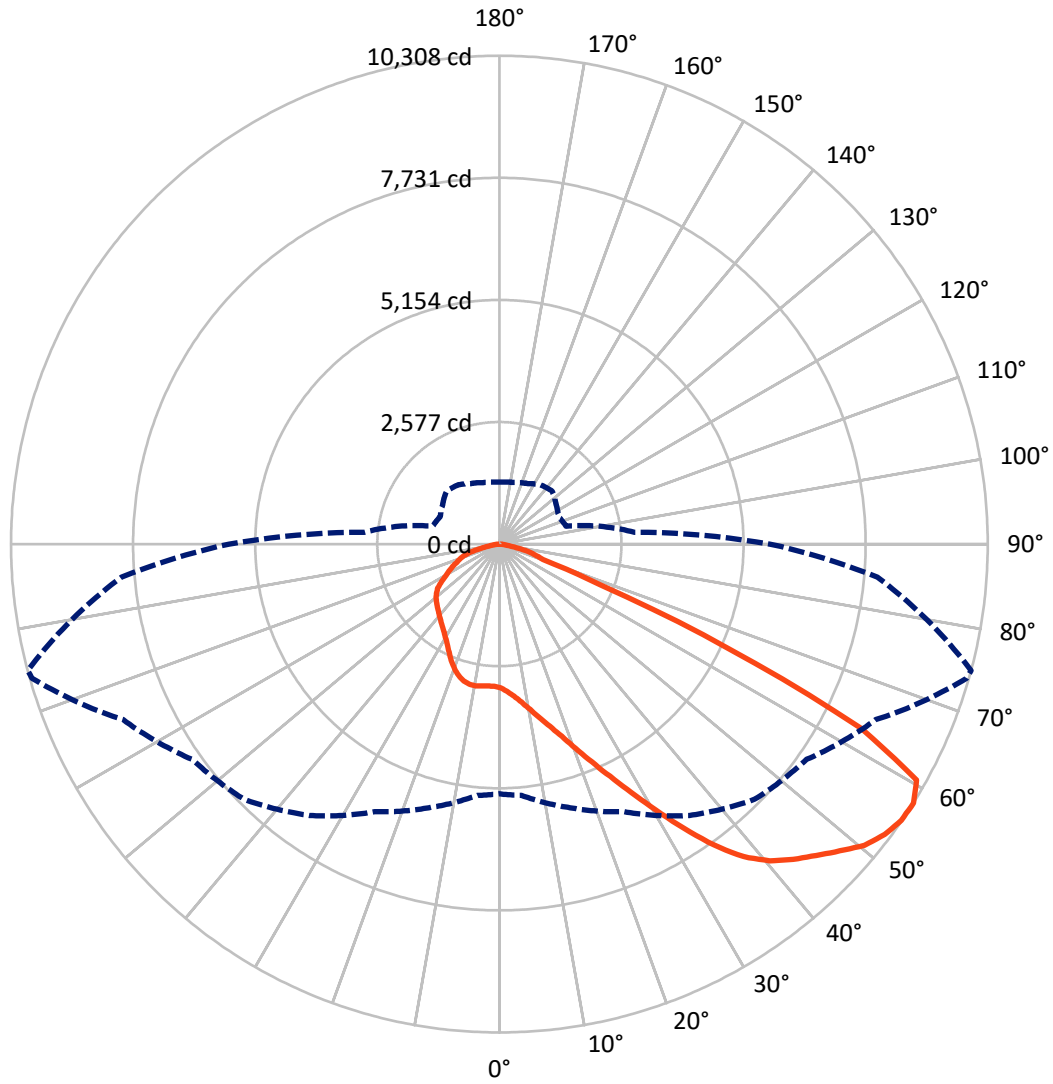
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P636509  
CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P636509  
 CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

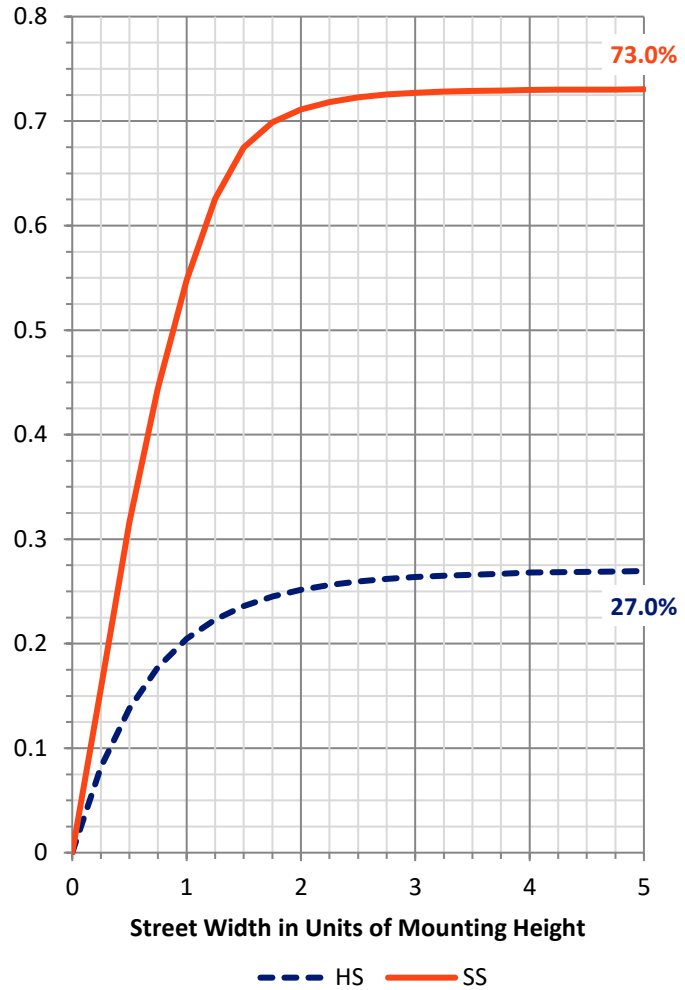
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4380.7	0.0	4380.7
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	11812.9	0.0	11812.9
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	16193.6	0.0	16193.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.5	1.9
10°-20°	966.2	6.0
20°-30°	1713.6	10.6
30°-40°	2623.1	16.2
40°-50°	3652.5	22.6
50°-60°	4185.1	25.8
60°-70°	2150.4	13.3
70°-80°	541.4	3.3
80°-90°	57.9	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°	16193.6	100.0
0°-180°	16193.6	100.0

**Coefficient of Utilization**

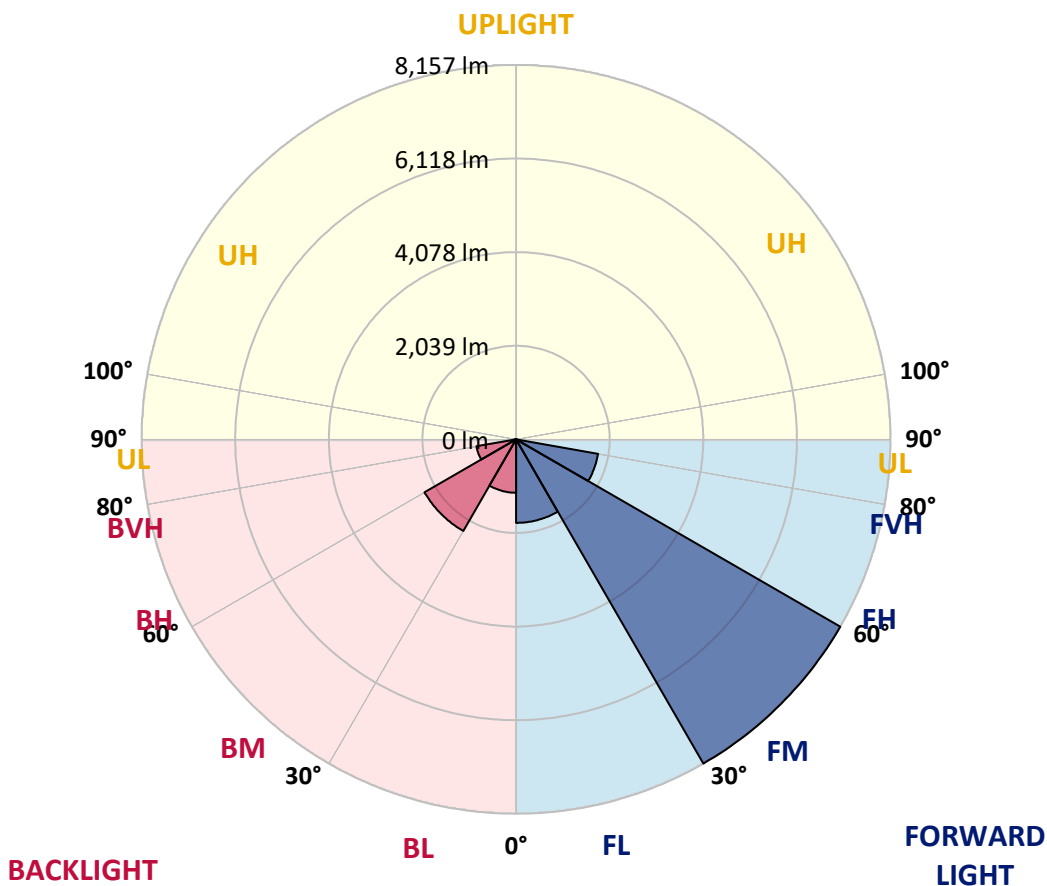


REPORT NUMBER: P636509  
 CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.5	11.2			
FM (30°-60°)	8156.9	50.4			
FH (60°-80°)	1815.1	11.2			G2/5000
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	1163.8	7.2	B3/2500		
BM (30°-60°)	2303.8	14.2	B2/2500		
BH (60°-80°)	876.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.5	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-G2**  
 Type II Short





REPORT NUMBER: P636509

CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7
2.5°	3258.2	3266.6	3258.2	3272.2	3244.3	3231.8	3201.2	3155.2	3119.0	3113.4	3073.1
5°	3511.7	3529.8	3518.6	3513.1	3475.5	3447.6	3401.7	3309.8	3234.6	3223.4	3144.1
7.5°	3674.6	3687.1	3687.1	3691.3	3677.4	3645.3	3596.6	3488.0	3382.2	3365.5	3245.7
10°	3728.9	3738.6	3756.7	3791.5	3819.4	3829.1	3797.1	3692.7	3563.2	3546.5	3379.4
12.5°	3741.4	3752.5	3780.4	3844.4	3921.0	3990.7	3996.2	3919.6	3774.8	3756.7	3533.9
15°	3765.1	3776.2	3813.8	3893.2	4006.0	4139.6	4221.8	4168.9	4008.8	3989.3	3709.4
17.5°	3762.3	3774.8	3830.5	3936.3	4088.1	4281.7	4440.4	4462.7	4297.0	4263.6	3908.5
20°	3755.3	3766.5	3826.3	3955.8	4143.8	4409.8	4696.6	4812.2	4633.9	4603.3	4141.0
22.5°	3811.0	3823.6	3869.5	3976.7	4173.1	4508.6	4933.3	5211.8	5033.6	4990.4	4408.4
25°	3936.3	3954.4	3982.3	4056.1	4226.0	4596.4	5175.6	5664.3	5481.9	5430.4	4699.4
27.5°	4129.9	4152.2	4191.2	4226.0	4344.3	4707.7	5416.5	6171.2	5988.8	5934.5	5007.1
30°	4366.6	4395.8	4446.0	4469.6	4550.4	4872.0	5678.3	6693.3	6587.5	6512.3	5353.8
32.5°	4693.8	4734.2	4781.5	4788.5	4837.2	5121.3	5937.2	7211.3	7209.9	7157.0	5747.9
35°	5119.9	5163.1	5172.8	5182.6	5206.2	5463.8	6250.5	7683.3	7865.7	7804.5	6176.7
37.5°	5585.0	5647.6	5662.9	5619.8	5653.2	5876.0	6602.8	8062.1	8436.6	8371.2	6591.7
40°	6082.1	6107.1	6148.9	6080.7	6122.4	6348.0	6948.1	8304.3	8862.7	8793.1	6918.9
42.5°	6438.5	6484.5	6547.1	6522.1	6545.7	6751.8	7190.4	8421.3	9166.2	9096.6	7154.2
45°	6825.6	6839.5	6879.9	6874.3	6888.3	7080.4	7364.5	8472.8	9437.8	9375.1	7354.7
47.5°	7162.6	7183.5	7209.9	7179.3	7148.6	7274.0	7506.5	8517.4	9751.1	9675.9	7565.0
50°	7487.0	7505.1	7537.1	7448.0	7333.8	7365.9	7576.1	8578.6	10044.9	9991.9	7730.7
52.5°	7546.9	7566.4	7716.7	7734.8	7588.6	7475.9	7698.6	8713.7	10217.5	10184.1	7790.5
55°	6793.6	6828.4	7127.8	7471.7	7832.3	7796.1	7895.0	8784.7	10285.7	10294.1	7897.8
57.5°	5273.1	5323.2	5760.4	6232.4	6991.3	7619.3	7920.0	8766.6	10262.1	10308.0	8007.8
60°	3458.8	3488.0	4006.0	4535.1	5321.8	6190.7	7088.8	8440.8	10051.8	10117.3	7979.9
62.5°	2088.6	2122.0	2538.4	2939.4	3403.1	3983.7	4808.0	6783.8	8425.5	8571.7	6391.2
65°	1457.9	1502.4	1867.2	2197.2	2357.4	2237.6	2435.3	3788.8	5249.4	5310.7	3905.7
67.5°	1056.8	1087.5	1386.8	1779.5	1956.3	1580.4	1204.4	1677.9	2286.3	2308.6	1611.0
70°	692.0	726.8	998.4	1354.8	1597.1	1281.0	900.9	907.9	962.2	973.3	935.7
72.5°	380.1	401.0	616.8	899.5	944.1	765.8	703.2	754.7	792.3	792.3	802.0
75°	196.3	214.4	252.0	296.6	357.8	419.1	506.8	583.4	623.8	626.6	622.4
77.5°	100.3	107.2	135.1	146.2	160.1	186.6	242.3	310.5	346.7	360.6	357.8
80°	47.3	50.1	57.1	66.8	82.2	104.4	130.9	156.0	178.2	181.0	196.3
82.5°	25.1	27.8	30.6	36.2	44.6	55.7	76.6	91.9	105.8	108.6	121.1
85°	9.7	11.1	12.5	13.9	19.5	23.7	32.0	43.2	52.9	52.9	62.7
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	5.6	7.0	9.7	9.7	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636509

CATALOG NUMBER: GWS-SA3F-830-U-T2-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7
2.5°	3063.3	3022.9	3004.8	2975.6	2951.9	2925.5	2904.6	2889.3	2879.5	2873.9	2868.4
5°	3113.4	3052.2	3003.4	2945.0	2904.6	2865.6	2833.6	2811.3	2800.1	2791.8	2786.2
7.5°	3191.4	3109.3	3017.4	2926.8	2855.8	2793.2	2752.8	2729.1	2713.8	2708.2	2704.1
10°	3298.6	3184.4	3032.7	2889.3	2783.4	2715.2	2687.4	2676.2	2677.6	2674.8	2673.4
12.5°	3419.8	3263.8	3028.5	2822.4	2705.5	2665.1	2666.5	2684.6	2705.5	2711.0	2712.4
15°	3550.6	3341.8	2988.1	2736.1	2644.2	2648.4	2684.6	2727.7	2766.7	2782.0	2784.8
17.5°	3692.7	3407.2	2914.3	2641.4	2594.1	2638.6	2705.5	2776.5	2833.6	2858.6	2865.6
20°	3851.4	3462.9	2809.9	2548.1	2546.7	2620.5	2718.0	2811.3	2883.7	2917.1	2922.7
22.5°	4019.9	3497.7	2681.8	2461.8	2498.0	2596.8	2708.2	2805.7	2882.3	2915.7	2922.7
25°	4189.8	3508.9	2541.2	2382.4	2447.9	2559.3	2660.9	2738.9	2811.3	2840.5	2846.1
27.5°	4348.5	3476.9	2407.5	2314.2	2401.9	2503.6	2571.8	2613.6	2663.7	2686.0	2690.1
30°	4510.0	3412.8	2294.7	2259.9	2350.4	2427.0	2457.6	2460.4	2479.9	2479.9	2482.7
32.5°	4672.9	3318.1	2195.8	2207.0	2286.3	2336.5	2340.6	2308.6	2284.9	2246.0	2244.6
35°	4860.9	3222.0	2115.1	2147.1	2211.1	2241.8	2229.3	2168.0	2110.9	2046.8	2044.1
37.5°	5035.0	3123.2	2046.8	2085.8	2126.2	2148.5	2119.3	2045.5	1998.1	1932.7	1922.9
40°	5178.4	3034.1	1981.4	2021.8	2041.3	2060.8	2013.4	1953.6	1960.5	1924.3	1922.9
42.5°	5261.9	2947.7	1920.1	1950.8	1963.3	1977.2	1935.5	1890.9	1928.5	1900.6	1902.0
45°	5323.2	2872.5	1864.4	1875.6	1906.2	1927.1	1888.1	1838.0	1846.3	1739.1	1714.1
47.5°	5392.8	2830.8	1811.5	1800.4	1854.7	1890.9	1831.0	1758.6	1708.5	1602.7	1592.9
50°	5466.6	2815.5	1755.8	1725.2	1790.6	1825.5	1755.8	1665.3	1599.9	1542.8	1537.2
52.5°	5491.7	2814.1	1686.2	1634.7	1700.1	1748.9	1690.4	1598.5	1520.5	1464.8	1462.0
55°	5590.5	2854.4	1597.1	1510.8	1572.0	1672.3	1629.1	1496.8	1434.2	1409.1	1406.3
57.5°	5706.1	2861.4	1456.5	1375.7	1460.6	1579.0	1524.7	1410.5	1342.3	1311.7	1308.9
60°	5658.8	2690.1	1306.1	1272.7	1366.0	1491.3	1441.1	1342.3	1262.9	1233.7	1230.9
62.5°	4312.3	1899.2	1196.1	1183.5	1264.3	1364.6	1354.8	1251.8	1176.6	1155.7	1152.9
65°	2594.1	1333.9	1090.3	1088.9	1146.0	1242.0	1254.6	1171.0	1091.7	1062.4	1062.4
67.5°	1282.4	1020.6	970.5	963.5	999.8	1068.0	1120.9	1052.7	985.8	958.0	953.8
70°	906.5	899.5	882.8	863.3	870.3	898.1	920.4	863.3	792.3	764.4	758.9
72.5°	783.9	785.3	774.2	758.9	753.3	733.8	714.3	672.5	629.4	600.1	602.9
75°	608.5	611.3	618.2	612.7	597.3	576.5	555.6	502.7	467.9	440.0	434.4
77.5°	355.1	369.0	391.3	385.7	388.5	359.2	350.9	299.4	267.3	247.8	243.7
80°	200.5	208.9	218.6	225.6	217.2	204.7	186.6	158.7	149.0	135.1	132.3
82.5°	121.1	129.5	133.7	139.2	136.5	119.7	105.8	87.7	79.4	72.4	71.0
85°	61.3	66.8	71.0	73.8	65.4	54.3	48.7	39.0	33.4	29.2	29.2
87.5°	15.3	16.7	19.5	16.7	15.3	7.0	5.6	1.4	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)