

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: P637483

Luminaire Tested: GWS-SA4C-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-830-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

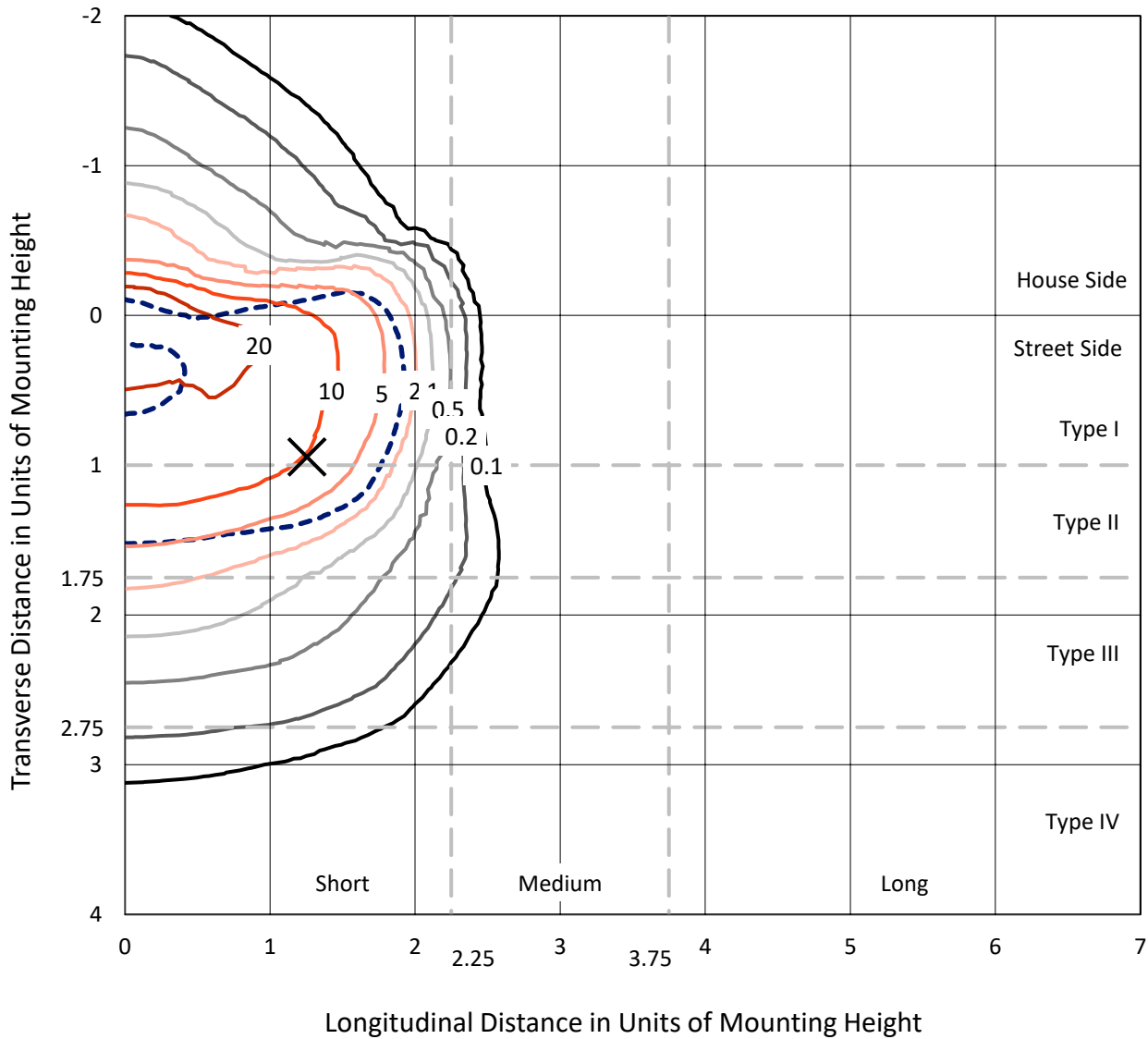
Lumens per Lamp: N/A  
Luminaire Lumens: 9019.3 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637483  
 CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

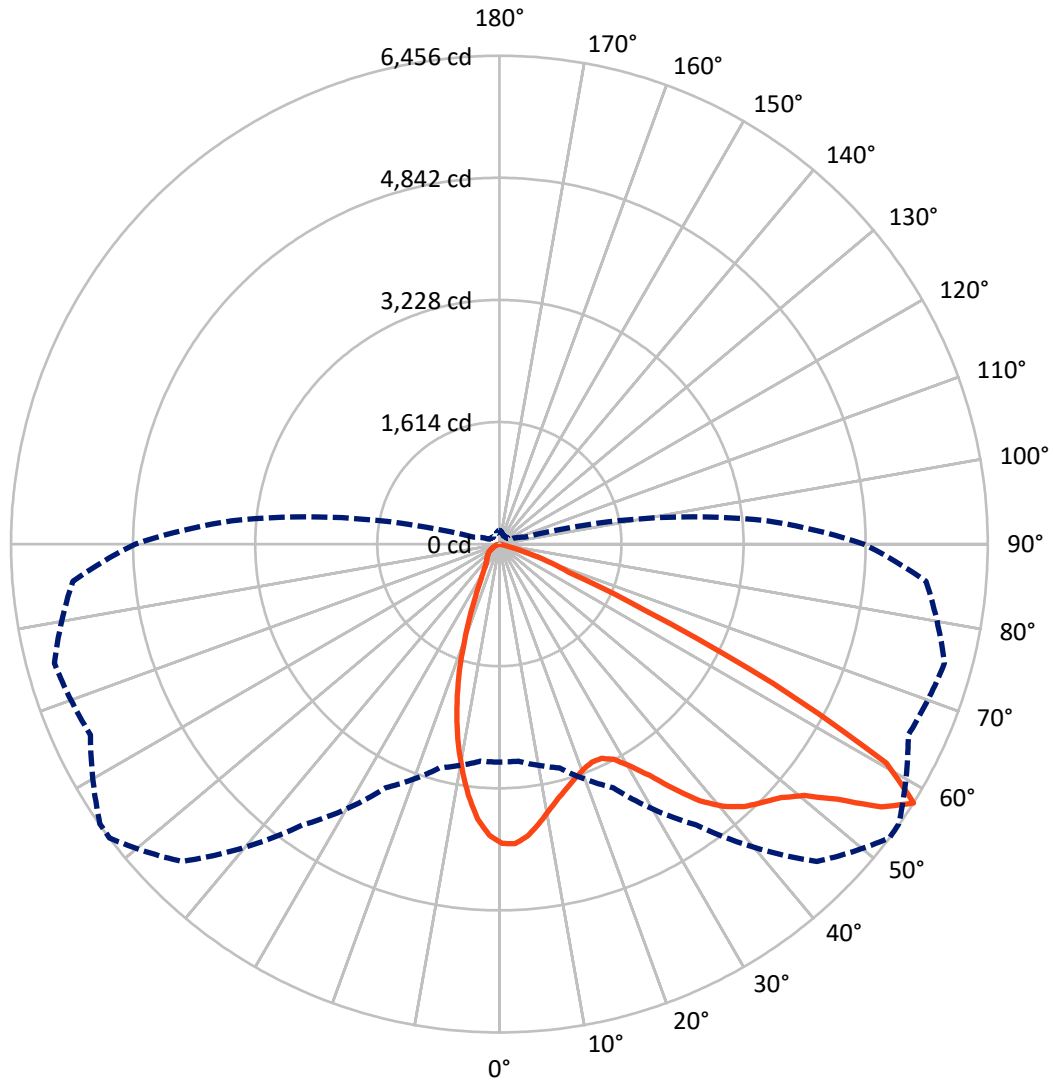
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 39.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P637483  
CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637483  
 CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-GRSBK

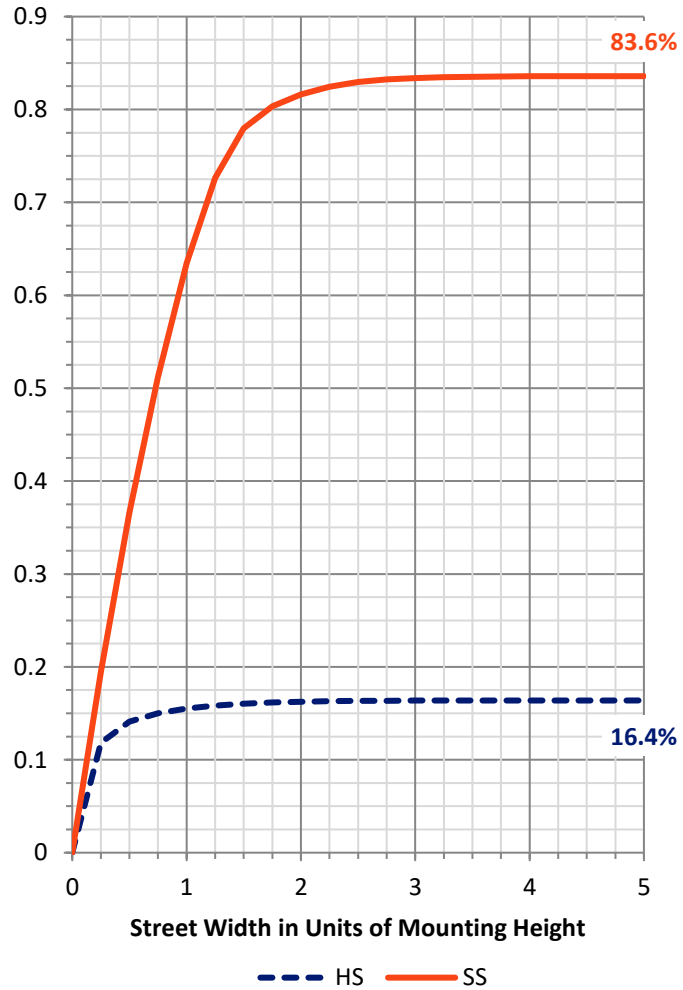
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1489.9	0.0	1489.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7529.4	0.0	7529.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	9019.3	0.0	9019.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.5	3.8
10°-20°	743.1	8.2
20°-30°	968.1	10.7
30°-40°	1404.3	15.6
40°-50°	2026.2	22.5
50°-60°	2450.6	27.2
60°-70°	998.8	11.1
70°-80°	89.7	1.0
80°-90°	0.0	0.0
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°	9019.3	100.0
0°-180°	9019.3	100.0

**Coefficient of Utilization**



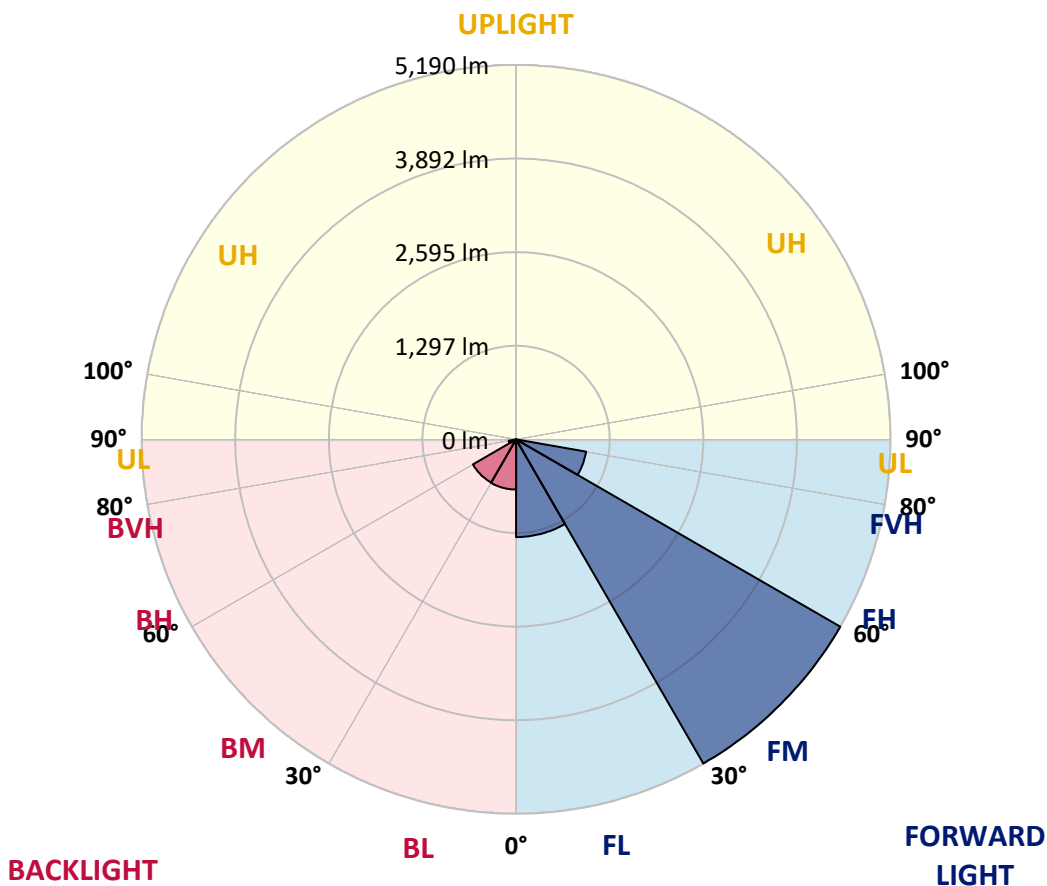
REPORT NUMBER: P637483

CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.4	15.0			
FM (30°-60°)	5189.5	57.5			
FH (60°-80°)	985.5	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	695.3	7.7	B2/1000		
BM (30°-60°)	691.5	7.7	B1/1000		
BH (60°-80°)	103.0	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P637483

CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4
2.5°	3901.1	3910.0	3925.4	3945.3	3958.6	3965.2	3965.2	3984.0	3971.9	3961.9	3950.9
5°	3734.2	3743.0	3764.0	3796.1	3828.1	3851.4	3877.9	3897.8	3905.5	3905.5	3886.7
7.5°	3498.7	3510.9	3524.2	3568.4	3638.0	3690.0	3735.3	3764.0	3806.0	3819.3	3792.8
10°	3245.6	3257.7	3287.6	3348.4	3428.0	3505.4	3582.7	3619.2	3691.1	3728.7	3698.8
12.5°	3031.1	3036.7	3076.4	3149.4	3251.1	3357.2	3451.2	3488.8	3590.5	3646.9	3611.5
15°	2854.3	2857.6	2897.4	2978.1	3095.2	3225.7	3344.0	3382.7	3507.6	3592.7	3539.6
17.5°	2720.5	2721.6	2755.9	2843.2	2965.9	3110.7	3251.1	3298.6	3460.0	3562.8	3483.2
20°	2653.1	2649.7	2674.1	2750.3	2866.4	3011.2	3177.0	3235.6	3433.5	3558.4	3440.1
22.5°	2654.2	2646.4	2656.4	2710.5	2808.9	2944.9	3130.6	3196.9	3435.7	3577.2	3403.7
25°	2717.2	2706.1	2708.3	2737.1	2806.7	2930.5	3137.2	3208.0	3479.9	3640.2	3390.4
27.5°	2823.3	2811.1	2811.1	2825.5	2863.1	2975.9	3220.2	3300.9	3598.2	3762.9	3418.0
30°	2960.4	2948.2	2943.8	2958.2	2989.1	3093.0	3404.8	3488.8	3800.5	3964.1	3506.5
32.5°	3117.3	3103.0	3110.7	3130.6	3160.5	3304.2	3642.4	3754.1	4053.7	4235.0	3665.6
35°	3283.2	3271.0	3306.4	3349.5	3395.9	3597.1	3970.7	4068.0	4364.3	4572.1	3908.8
37.5°	3441.2	3435.7	3509.8	3600.4	3696.6	3948.6	4304.6	4379.8	4630.7	4939.1	4206.2
40°	3599.3	3598.2	3725.3	3884.5	4038.2	4299.1	4557.7	4619.6	4793.2	5224.3	4491.4
42.5°	3776.2	3776.2	3952.0	4164.2	4368.7	4595.3	4743.5	4771.1	4866.2	5389.0	4705.9
45°	3945.3	3955.3	4158.7	4405.2	4647.3	4826.4	4871.7	4873.9	4896.0	5486.3	4883.8
47.5°	4079.1	4087.9	4331.1	4615.2	4876.1	5002.1	5008.8	4998.8	4974.5	5579.2	5020.9
50°	4187.4	4200.7	4454.9	4755.6	5033.1	5171.3	5222.1	5212.2	5150.3	5678.7	5117.1
52.5°	4240.5	4259.3	4498.0	4825.3	5207.7	5460.9	5602.4	5625.6	5413.4	5733.9	5208.8
55°	3816.0	3843.6	4063.6	4511.3	5305.0	5908.6	6130.8	6126.4	5698.6	5898.6	5432.1
57.5°	2881.9	2879.7	3062.1	3551.8	4531.2	5934.0	6455.8	6446.9	5965.0	6089.9	5661.0
60°	1962.2	1948.9	1997.5	2234.1	3168.2	4834.1	5875.4	5994.8	5775.9	5625.6	4806.5
62.5°	1615.1	1602.9	1587.4	1522.2	1819.6	3011.2	4059.2	4240.5	4211.7	3910.0	3014.5
65°	1322.1	1332.1	1375.2	1347.5	1265.7	1544.3	2107.0	2214.2	2024.1	1703.5	1053.5
67.5°	975.0	979.4	1035.8	1181.7	1137.5	1028.1	991.6	1009.3	591.4	271.9	175.8
70°	575.9	579.3	631.2	826.9	923.0	789.3	669.9	659.9	234.4	73.0	79.6
72.5°	326.1	319.5	329.4	393.5	503.0	419.0	344.9	313.9	70.7	40.9	40.9
75°	154.8	150.3	129.3	121.6	110.5	70.7	44.2	37.6	17.7	16.6	16.6
77.5°	1.1	3.3	2.2	3.3	3.3	2.2	1.1	1.1	3.3	3.3	4.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P637483

CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4	3956.4
2.5°	3931.0	3897.8	3890.1	3887.8	3856.9	3823.7	3789.5	3776.2	3756.3	3744.1	3754.1
5°	3856.9	3809.4	3767.3	3728.7	3660.1	3585.0	3519.7	3477.7	3437.9	3411.4	3418.0
7.5°	3751.9	3690.0	3593.8	3495.4	3369.4	3256.6	3130.6	3053.2	2981.4	2941.6	2960.4
10°	3640.2	3558.4	3404.8	3237.8	3040.0	2863.1	2682.9	2535.9	2450.8	2370.1	2378.9
12.5°	3530.8	3422.5	3192.5	2939.4	2689.5	2428.7	2156.7	1953.3	1814.0	1713.4	1698.0
15°	3429.1	3289.8	2985.8	2652.0	2311.5	1964.4	1617.3	1326.5	1165.1	1065.6	1059.0
17.5°	3338.4	3166.0	2771.3	2351.3	1924.6	1480.2	1081.1	863.4	770.5	727.4	723.0
20°	3251.1	3041.1	2552.5	2046.2	1502.3	1039.1	746.2	645.6	615.7	598.0	600.3
22.5°	3167.1	2905.1	2322.5	1707.9	1126.4	729.6	578.1	539.5	536.1	538.4	539.5
25°	3096.3	2780.2	2086.0	1381.8	803.7	556.0	483.1	472.0	482.0	496.3	498.6
27.5°	3059.9	2678.5	1854.9	1053.5	581.5	452.1	419.0	423.4	441.1	456.5	458.8
30°	3069.8	2602.2	1616.2	763.9	447.7	381.4	370.3	379.2	396.9	411.2	413.4
32.5°	3140.6	2563.5	1371.9	556.0	368.1	332.7	328.3	334.9	350.4	361.5	362.6
35°	3281.0	2572.4	1139.7	425.6	316.2	296.3	295.2	299.6	307.3	315.1	316.2
37.5°	3487.7	2644.2	910.9	353.7	286.3	271.9	267.5	267.5	273.0	276.4	278.6
40°	3709.9	2752.6	729.6	312.8	265.3	249.8	241.0	237.7	242.1	246.5	247.6
42.5°	3893.4	2860.9	592.5	284.1	248.7	227.7	216.7	214.5	220.0	227.7	229.9
45°	4033.8	2944.9	494.1	260.9	229.9	206.7	194.6	194.6	204.5	217.8	220.0
47.5°	4162.0	3012.3	421.2	239.9	212.2	187.9	175.8	178.0	194.6	212.2	215.6
50°	4249.3	3066.5	367.0	221.1	197.9	172.4	161.4	165.8	185.7	206.7	210.0
52.5°	4343.3	3132.8	331.6	204.5	184.6	160.3	150.3	153.7	175.8	199.0	203.4
55°	4603.1	3355.0	330.5	182.4	161.4	143.7	139.3	140.4	162.5	189.0	194.6
57.5°	4815.3	3550.7	352.6	153.7	134.9	126.0	123.8	124.9	144.8	174.7	181.3
60°	3984.0	2759.2	291.8	127.1	112.8	110.5	107.2	109.4	128.2	154.8	160.3
62.5°	2357.9	1577.5	139.3	97.3	96.2	94.0	90.6	95.1	112.8	136.0	139.3
65°	805.9	467.6	88.4	79.6	81.8	78.5	75.2	79.6	95.1	108.3	109.4
67.5°	154.8	123.8	70.7	66.3	67.4	60.8	59.7	64.1	73.0	75.2	74.1
70°	80.7	71.9	54.2	54.2	52.0	43.1	43.1	47.5	47.5	44.2	43.1
72.5°	42.0	39.8	35.4	39.8	33.2	26.5	26.5	28.7	26.5	22.1	22.1
75°	16.6	16.6	15.5	19.9	14.4	12.2	11.1	13.3	9.9	7.7	7.7
77.5°	4.4	4.4	4.4	5.5	3.3	3.3	2.2	2.2	1.1	0.0	0.0
80°	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)