

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: P638005

Luminaire Tested: GWS-SA4D-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

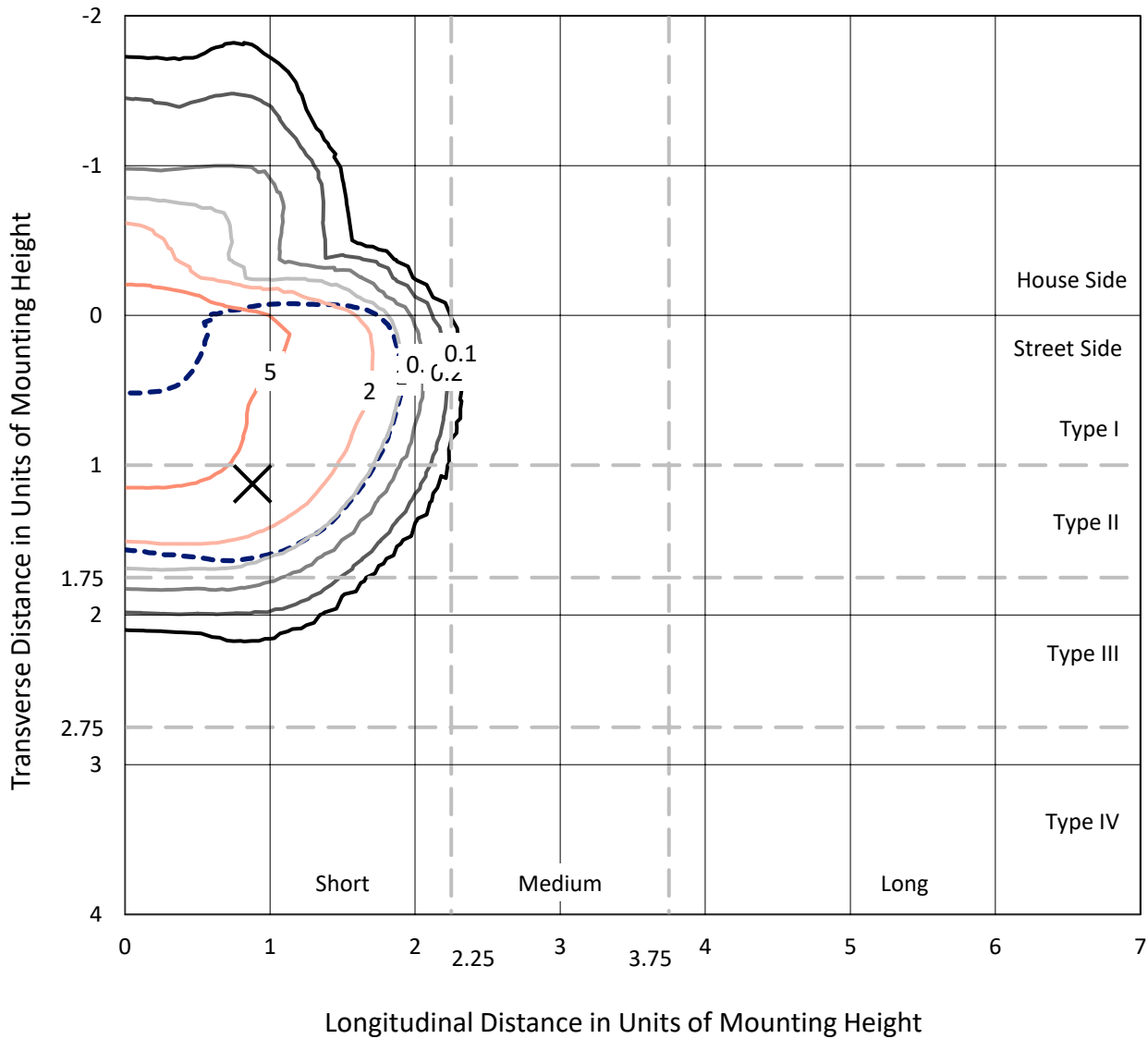
Lumens per Lamp: N/A  
Luminaire Lumens: 12201.2 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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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 CATALOG NUMBER: GWS-SA4D-830-U-T3R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

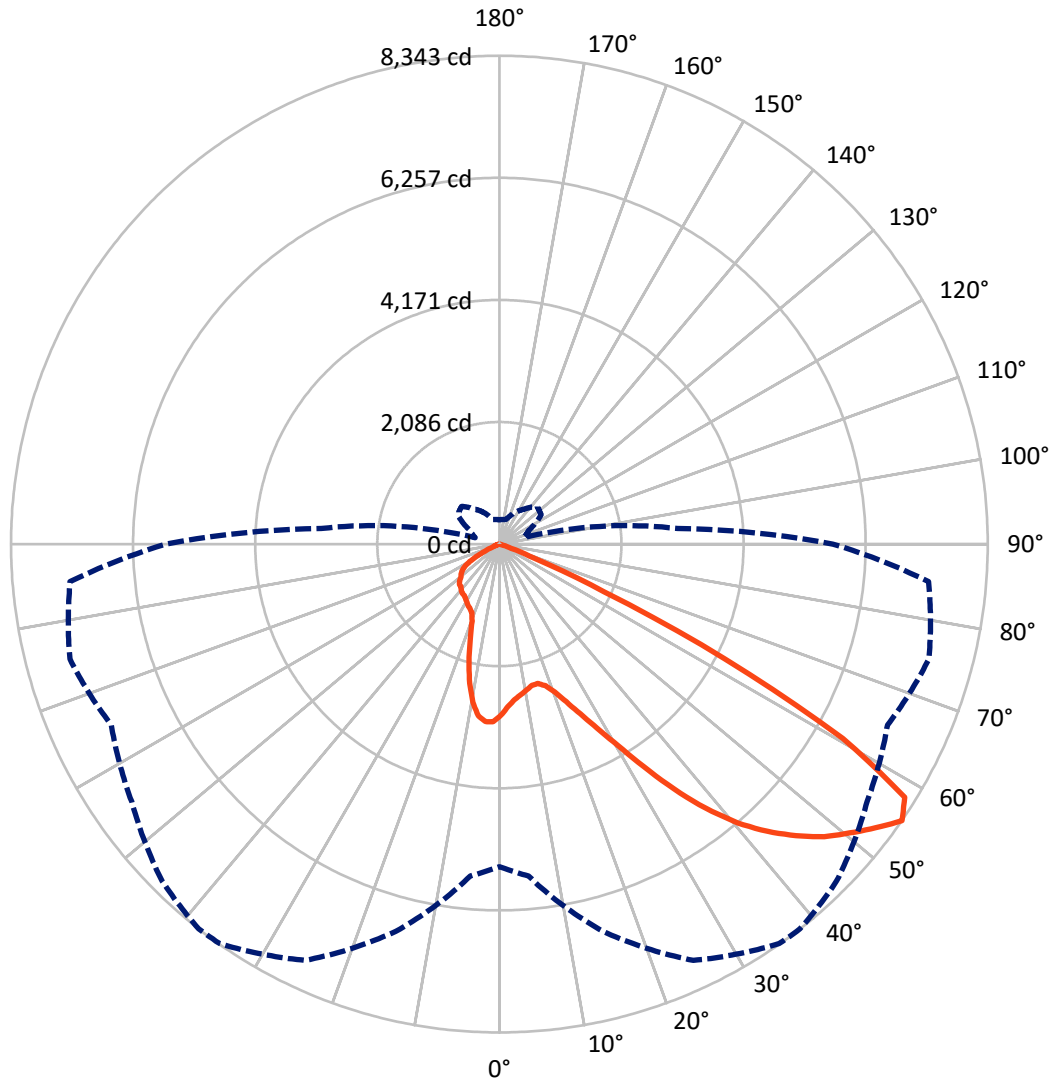
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P638005  
CATALOG NUMBER: GWS-SA4D-830-U-T3R-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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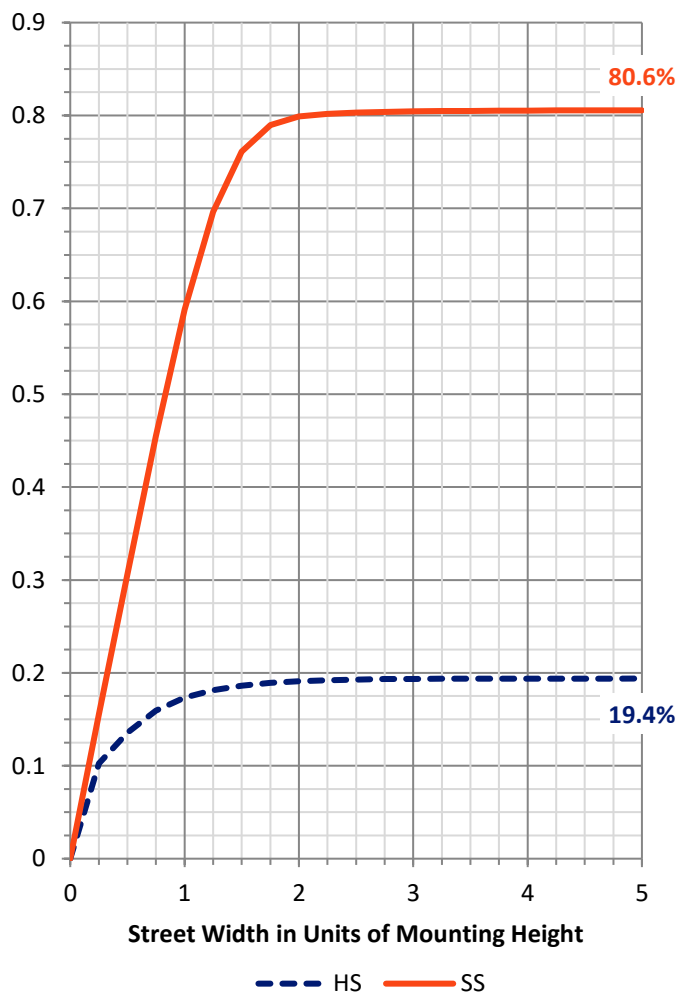
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2377.2	0.0	2377.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9824.0	0.0	9824.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	12201.2	0.0	12201.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.5	2.2
10°-20°	728.3	6.0
20°-30°	1249.9	10.2
30°-40°	2073.0	17.0
40°-50°	3047.4	25.0
50°-60°	3560.9	29.2
60°-70°	1207.0	9.9
70°-80°	61.7	0.5
80°-90°	2.4	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°	12201.2	100.0
0°-180°	12201.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638005

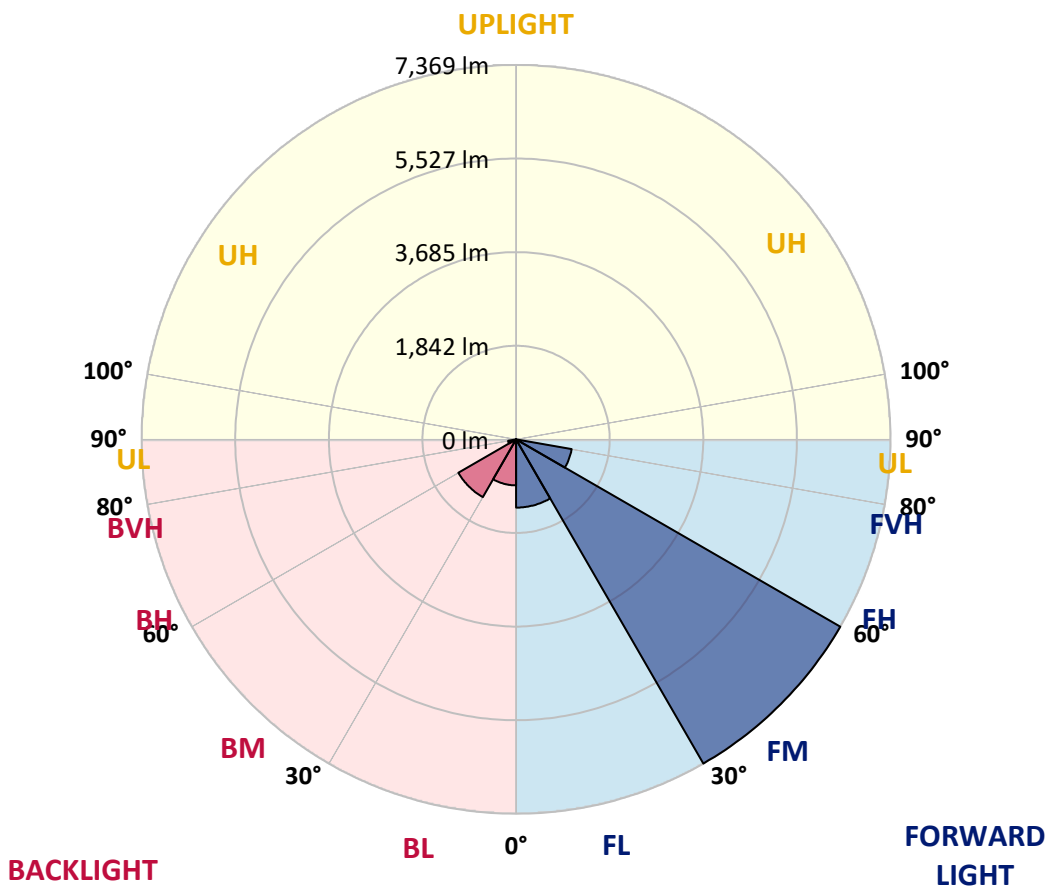
CATALOG NUMBER: GWS-SA4D-830-U-T3R-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1343.1	11.0			
FM (30°-60°)	7369.2	60.4			
FH (60°-80°)	1110.5	9.1			G1/1800
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	905.7	7.4	B2/1000		
BM (30°-60°)	1312.1	10.8	B2/2500		
BH (60°-80°)	158.3	1.3	B1/500		G1/500
BVH (80°-90°)	1.1	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: P638005

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9
2.5°	2725.1	2719.5	2730.7	2753.0	2773.9	2780.9	2801.8	2831.1	2849.2	2892.5	2927.3
5°	2602.4	2599.6	2610.8	2630.3	2658.2	2667.9	2700.0	2748.8	2797.6	2872.9	2946.9
7.5°	2490.8	2489.4	2506.2	2549.4	2589.8	2602.4	2641.4	2701.4	2767.0	2882.7	2991.5
10°	2344.4	2345.8	2377.9	2439.2	2513.1	2538.2	2601.0	2687.5	2772.5	2921.8	3072.4
12.5°	2297.0	2299.8	2316.5	2363.9	2444.8	2476.9	2564.7	2695.8	2804.6	2977.5	3177.0
15°	2412.7	2412.7	2398.8	2404.3	2440.6	2469.9	2561.9	2723.7	2859.0	3044.5	3280.2
17.5°	2637.3	2628.9	2594.0	2546.6	2534.0	2543.8	2617.7	2783.7	2935.7	3122.6	3397.3
20°	2941.3	2944.1	2875.7	2776.7	2697.2	2695.8	2740.5	2889.7	3045.9	3216.0	3524.2
22.5°	3309.5	3298.3	3207.7	3072.4	2934.3	2923.2	2941.3	3051.5	3204.9	3363.9	3680.4
25°	3736.2	3730.6	3602.3	3421.0	3238.3	3211.8	3211.8	3320.6	3432.2	3574.4	3867.3
27.5°	4182.5	4182.5	4058.4	3849.2	3606.5	3559.1	3552.1	3680.4	3754.4	3782.2	4024.9
30°	4641.3	4635.8	4513.0	4298.3	4038.9	3990.0	3970.5	4065.4	4118.4	4034.7	4221.6
32.5°	5107.1	5116.9	4992.8	4793.4	4561.8	4529.8	4469.8	4469.8	4513.0	4395.9	4531.2
35°	5607.8	5605.0	5507.4	5372.1	5174.1	5137.8	5038.8	4884.0	4949.6	4898.0	4959.3
37.5°	6049.9	6070.8	6023.4	5923.0	5762.6	5726.4	5563.2	5282.9	5333.1	5414.0	5468.4
40°	6499.0	6515.7	6563.1	6531.1	6328.8	6261.9	5971.8	5511.6	5567.4	5844.9	6001.1
42.5°	6939.7	6948.1	7044.3	7097.3	6826.7	6709.6	6281.4	5651.1	5709.6	6182.4	6455.8
45°	7220.0	7238.1	7397.1	7558.9	7266.0	7105.7	6550.6	5829.6	5854.7	6416.7	6791.9
47.5°	7208.9	7250.7	7549.2	7843.4	7644.0	7471.1	6874.1	6115.5	6073.6	6637.1	7013.6
50°	6984.3	7034.5	7462.7	7929.9	7915.9	7755.6	7234.0	6529.7	6398.6	6832.3	7041.5
52.5°	6518.5	6663.6	7310.7	7941.0	8134.9	8054.0	7678.9	7087.5	6837.9	7112.6	7086.1
55°	5511.6	5690.1	6849.0	7846.2	8332.9	8342.7	8146.1	7669.1	7314.9	7595.2	7360.9
57.5°	4183.9	4326.2	5271.7	6984.3	8005.2	8165.6	8327.4	7975.9	7609.1	7924.3	7425.0
60°	2521.5	2686.1	3301.1	5125.3	6465.5	6738.9	7373.4	7305.1	6863.0	6998.3	6089.0
62.5°	1022.3	1108.7	1524.3	2824.1	4069.5	4324.8	4932.8	5036.0	4927.2	4789.2	3693.0
65°	373.8	408.6	610.8	1167.3	1871.6	1965.0	2285.8	2468.5	2619.1	2230.0	1373.7
67.5°	231.5	253.8	397.5	599.7	680.6	633.2	644.3	768.4	733.6	453.3	245.5
70°	171.5	189.7	311.0	415.6	274.7	212.0	143.6	153.4	138.1	121.3	119.9
72.5°	118.5	135.3	232.9	245.5	106.0	75.3	53.0	73.9	83.7	82.3	85.1
75°	78.1	90.7	146.4	96.2	26.5	20.9	18.1	39.0	50.2	50.2	51.6
77.5°	46.0	53.0	51.6	19.5	5.6	5.6	4.2	7.0	11.2	12.6	15.3
80°	5.6	4.2	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
82.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
85°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	4.2	4.2
87.5°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	4.2	4.2
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: P638005

CATALOG NUMBER: GWS-SA4D-830-U-T3R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9
2.5°	2953.8	2944.1	2984.5	3013.8	3037.5	3048.7	3033.3	3031.9	3031.9	3001.3	2992.9
5°	2988.7	2992.9	3050.1	3075.2	3079.4	3065.4	3030.5	3006.8	2992.9	2960.8	2942.7
7.5°	3055.6	3069.6	3124.0	3119.8	3082.1	3018.0	2925.9	2854.8	2808.8	2758.6	2727.9
10°	3151.9	3178.4	3211.8	3153.3	3033.3	2870.2	2680.5	2545.2	2464.3	2407.1	2372.3
12.5°	3269.0	3295.5	3284.4	3146.3	2896.7	2605.2	2361.1	2165.9	2072.4	2020.8	1984.6
15°	3387.6	3404.3	3331.8	3062.6	2655.4	2263.5	1991.5	1797.7	1683.3	1641.5	1610.8
17.5°	3508.9	3504.7	3340.1	2898.0	2333.2	1878.6	1610.8	1478.3	1446.2	1439.3	1436.5
20°	3635.8	3598.2	3306.7	2662.4	1945.5	1497.8	1345.8	1354.2	1412.8	1440.7	1446.2
22.5°	3780.9	3686.0	3223.0	2343.0	1549.4	1248.2	1263.5	1345.8	1425.3	1463.0	1468.5
25°	3935.7	3766.9	3083.5	1933.0	1221.7	1147.8	1238.4	1333.3	1418.3	1464.4	1469.9
27.5°	4037.5	3786.4	2854.8	1520.2	1048.8	1108.7	1205.0	1295.6	1383.5	1433.7	1440.7
30°	4147.6	3778.1	2543.8	1171.5	990.2	1075.3	1158.9	1241.2	1322.1	1377.9	1383.5
32.5°	4309.4	3772.5	2164.5	951.1	966.5	1048.8	1110.1	1178.5	1234.3	1266.3	1262.1
35°	4521.4	3765.5	1722.4	857.7	952.5	1027.8	1076.7	1108.7	1047.4	1027.8	1032.0
37.5°	4793.4	3782.2	1350.0	818.6	948.4	1022.3	1064.1	972.1	877.2	841.0	835.4
40°	5094.6	3825.5	1029.2	803.3	962.3	1036.2	1016.7	864.7	747.5	676.4	661.1
42.5°	5397.2	3872.9	814.5	797.7	986.0	1075.3	938.6	786.6	610.8	570.4	564.8
45°	5621.8	3864.5	704.3	788.0	1006.9	1097.6	917.7	675.0	545.3	527.2	528.6
47.5°	5734.7	3772.5	644.3	765.7	1015.3	1075.3	866.1	629.0	500.7	520.2	536.9
50°	5674.8	3534.0	588.5	722.4	997.2	1046.0	783.8	594.1	478.4	559.2	596.9
52.5°	5602.2	3241.1	527.2	655.5	953.9	1005.5	751.7	584.4	464.4	539.7	567.6
55°	5698.5	3055.6	426.8	552.3	868.9	910.7	726.6	583.0	432.3	419.8	415.6
57.5°	5563.2	2686.1	305.4	397.5	666.6	721.0	708.5	573.2	383.5	382.1	387.7
60°	4299.7	1638.7	209.2	252.4	408.6	460.2	642.9	548.1	330.5	304.0	305.4
62.5°	2443.4	697.3	143.6	156.2	209.2	248.2	490.9	497.9	305.4	290.1	305.4
65°	850.7	249.6	111.6	104.6	115.8	132.5	281.7	384.9	277.5	251.0	253.8
67.5°	175.7	124.1	99.0	86.5	86.5	86.5	143.6	239.9	228.7	199.4	202.2
70°	111.6	106.0	86.5	73.9	71.1	65.5	82.3	132.5	157.6	145.0	146.4
72.5°	82.3	80.9	68.3	60.0	53.0	47.4	51.6	65.5	80.9	83.7	85.1
75°	50.2	51.6	44.6	37.7	33.5	29.3	30.7	30.7	30.7	27.9	30.7
77.5°	15.3	16.7	13.9	11.2	9.8	9.8	9.8	8.4	7.0	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0
82.5°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0
85°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	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)