

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: P638026

Luminaire Tested: GWS-SA4E-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-722-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

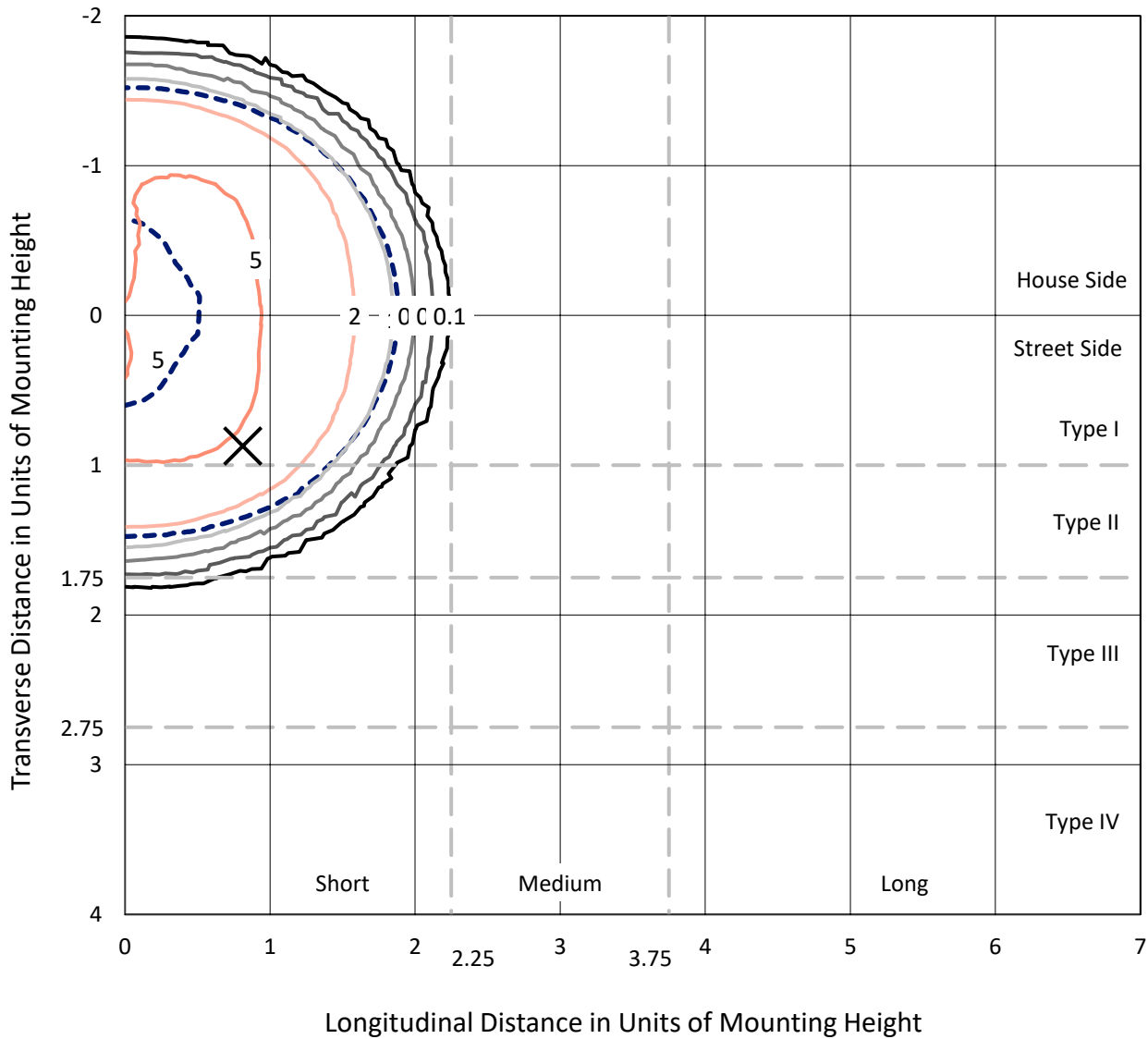
Lumens per Lamp: N/A  
Luminaire Lumens: 14609.8 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

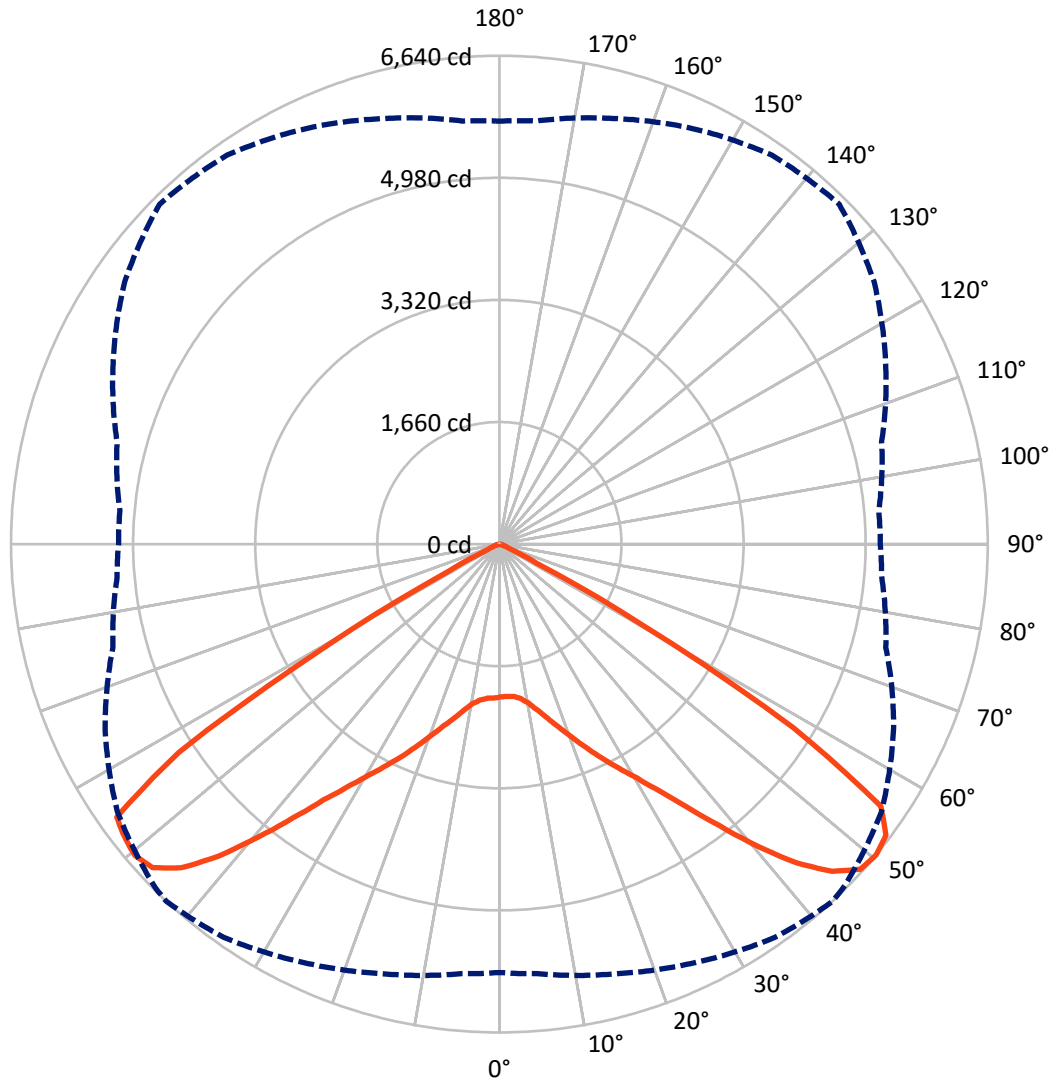
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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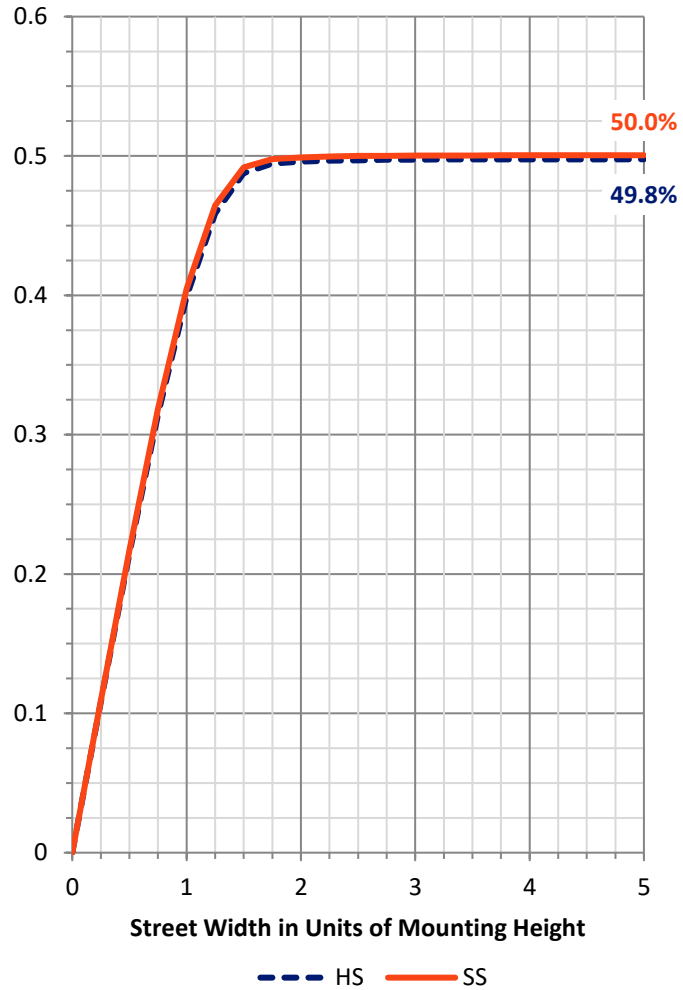
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7304.7	0.0	7304.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7305.1	0.0	7305.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14609.8	0.0	14609.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	1.4
10°-20°	704.2	4.8
20°-30°	1424.7	9.8
30°-40°	2643.4	18.1
40°-50°	4387.9	30.0
50°-60°	4478.0	30.7
60°-70°	734.3	5.0
70°-80°	32.2	0.2
80°-90°	0.4	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°	14609.8	100.0
0°-180°	14609.8	100.0

**Coefficient of Utilization**



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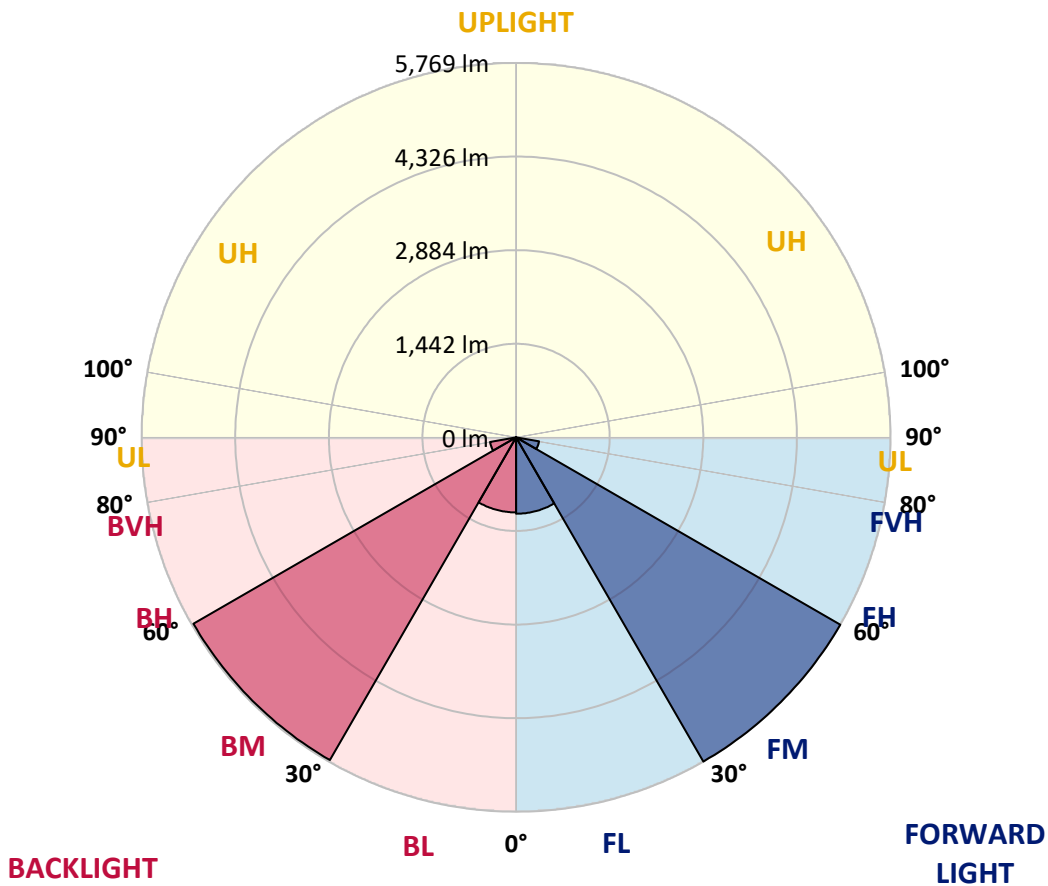
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.0	8.1			
FM (30°-60°)	5768.6	39.5			
FH (60°-80°)	359.2	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1156.6	7.9	B3/2500		
BM (30°-60°)	5740.6	39.3	B4/8500		
BH (60°-80°)	407.2	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0
2.5°	2039.2	2044.1	2050.5	2057.0	2065.1	2073.2	2078.0	2092.6	2089.3	2102.3	2102.3
5°	2016.6	2021.5	2029.5	2044.1	2061.9	2079.6	2092.6	2121.6	2137.8	2163.7	2173.3
7.5°	2027.9	2034.4	2044.1	2066.7	2094.2	2121.6	2136.2	2183.0	2215.4	2263.8	2291.3
10°	2065.1	2071.5	2087.7	2126.5	2162.0	2200.8	2218.6	2278.4	2330.1	2396.3	2435.1
12.5°	2107.1	2115.2	2147.5	2205.7	2267.1	2318.8	2343.0	2409.3	2462.6	2536.9	2598.3
15°	2150.7	2163.7	2213.7	2299.4	2386.6	2456.1	2482.0	2553.1	2606.4	2685.6	2755.1
17.5°	2252.5	2267.1	2323.6	2415.7	2535.3	2616.1	2638.7	2713.1	2753.4	2806.8	2879.5
20°	2380.2	2407.7	2477.1	2588.6	2719.5	2797.1	2813.2	2885.9	2882.7	2905.3	2968.4
22.5°	2538.5	2557.9	2633.9	2766.4	2913.4	2999.1	3036.2	3066.9	3026.5	3007.1	3047.5
25°	2703.4	2726.0	2808.4	2953.8	3118.6	3217.2	3247.9	3272.1	3207.5	3134.8	3139.6
27.5°	2916.7	2932.8	3013.6	3168.7	3333.5	3445.0	3472.5	3514.5	3428.9	3312.5	3280.2
30°	3170.3	3186.5	3272.1	3435.3	3598.5	3693.9	3735.9	3787.6	3693.9	3548.5	3511.3
32.5°	3467.7	3483.8	3593.7	3761.8	3895.9	3999.3	4039.7	4094.6	4020.3	3857.1	3815.1
35°	3823.2	3832.9	3962.1	4144.7	4286.9	4387.1	4414.6	4479.2	4396.8	4233.6	4211.0
37.5°	4235.2	4246.5	4387.1	4598.8	4744.2	4855.7	4899.3	4917.1	4816.9	4634.3	4616.5
40°	4687.6	4724.8	4862.2	5090.0	5253.2	5393.8	5432.6	5372.8	5232.2	4983.4	4951.0
42.5°	5159.5	5191.8	5345.3	5592.5	5781.6	5925.4	5927.0	5797.8	5558.6	5214.4	5165.9
45°	5552.1	5565.1	5763.8	6012.7	6245.4	6347.2	6356.8	6122.5	5762.2	5348.5	5245.1
47.5°	5822.0	5843.0	6015.9	6255.0	6512.0	6604.1	6584.7	6292.2	5859.2	5435.8	5264.5
50°	5825.2	5860.8	6048.2	6279.3	6528.1	6639.6	6612.2	6340.7	5914.1	5439.0	5217.7
52.5°	5309.8	5367.9	5673.3	6007.8	6389.2	6579.8	6586.3	6403.7	5893.1	5387.3	5175.6
55°	4005.7	4068.8	4453.3	5023.7	5760.6	6292.2	6384.3	6329.4	5868.9	5409.9	5250.0
57.5°	2120.0	2071.5	2284.8	2850.4	3776.3	4716.7	4986.6	5426.1	5599.0	5437.4	5387.3
60°	462.1	492.8	656.0	883.9	1473.7	2218.6	2482.0	3235.0	4130.2	4527.7	4815.3
62.5°	198.8	195.5	203.6	231.1	337.7	562.3	686.7	1121.4	1769.4	2430.3	2877.9
65°	163.2	164.8	171.3	171.3	160.0	161.6	169.7	256.9	413.7	580.1	778.9
67.5°	122.8	124.4	135.7	139.0	130.9	116.3	114.7	97.0	101.8	127.7	132.5
70°	77.6	77.6	84.0	87.3	87.3	80.8	79.2	69.5	67.9	77.6	87.3
72.5°	42.0	42.0	45.2	46.9	45.2	43.6	43.6	42.0	40.4	46.9	59.8
75°	17.8	17.8	19.4	19.4	17.8	17.8	17.8	17.8	17.8	21.0	32.3
77.5°	3.2	4.8	6.5	4.8	3.2	3.2	3.2	4.8	4.8	6.5	9.7
80°	1.6	1.6	3.2	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0
2.5°	2113.6	2095.8	2102.3	2105.5	2100.6	2097.4	2079.6	2074.8	2066.7	2053.8	2050.5
5°	2184.7	2170.1	2168.5	2158.8	2136.2	2108.7	2074.8	2060.2	2044.1	2027.9	2024.7
7.5°	2304.2	2286.5	2275.1	2242.8	2191.1	2147.5	2090.9	2060.2	2039.2	2018.2	2013.4
10°	2457.7	2436.7	2404.4	2344.6	2275.1	2212.1	2145.9	2105.5	2073.2	2044.1	2042.5
12.5°	2620.9	2598.3	2540.2	2464.2	2380.2	2322.0	2238.0	2181.4	2133.0	2089.3	2084.5
15°	2792.2	2764.8	2685.6	2595.1	2517.5	2457.7	2365.6	2275.1	2200.8	2137.8	2131.3
17.5°	2923.1	2889.2	2795.5	2727.6	2664.6	2603.2	2499.8	2380.2	2281.6	2205.7	2187.9
20°	3005.5	2973.2	2884.3	2847.2	2818.1	2774.5	2651.6	2527.2	2417.3	2323.6	2307.5
22.5°	3084.7	3045.9	2968.4	2968.4	2991.0	2973.2	2840.7	2698.5	2569.2	2461.0	2436.7
25°	3173.6	3142.9	3087.9	3133.2	3189.7	3188.1	3052.4	2874.6	2726.0	2604.8	2580.5
27.5°	3302.8	3272.1	3252.8	3338.4	3409.5	3404.6	3256.0	3063.7	2907.0	2787.4	2764.8
30°	3530.7	3501.6	3480.6	3584.0	3674.5	3640.6	3477.4	3291.5	3133.2	2997.4	2981.3
32.5°	3834.5	3803.8	3776.3	3879.7	3960.5	3916.9	3761.8	3587.2	3404.6	3272.1	3239.8
35°	4233.6	4169.0	4141.5	4264.3	4298.2	4249.7	4101.1	3947.6	3753.7	3601.8	3580.8
37.5°	4645.6	4569.7	4550.3	4656.9	4711.9	4694.1	4519.6	4359.6	4149.6	3981.5	3957.3
40°	4997.9	4928.4	4894.5	5060.9	5185.3	5196.6	5039.9	4844.4	4597.2	4422.6	4379.0
42.5°	5204.7	5144.9	5136.9	5395.4	5599.0	5744.4	5557.0	5355.0	5094.8	4897.7	4862.2
45°	5251.6	5212.8	5280.7	5620.0	5936.7	6201.7	6041.8	5828.5	5547.3	5338.8	5304.9
47.5°	5246.7	5233.8	5355.0	5736.3	6137.1	6463.5	6384.3	6143.6	5872.1	5653.9	5621.6
50°	5177.3	5178.9	5380.9	5794.5	6217.9	6534.6	6455.4	6232.4	5990.0	5775.1	5749.3
52.5°	5149.8	5140.1	5332.4	5776.7	6300.3	6502.3	6324.5	6074.1	5804.2	5539.2	5500.4
55°	5246.7	5222.5	5338.8	5762.2	6310.0	6484.5	6015.9	5473.0	4920.3	4606.9	4581.0
57.5°	5392.2	5366.3	5421.3	5655.6	5804.2	5392.2	4427.5	3551.7	2982.9	2742.1	2637.1
60°	4815.3	4797.5	4755.5	4472.7	3836.1	2894.0	1971.4	1257.1	903.3	730.4	730.4
62.5°	2987.7	2963.5	2735.7	2032.8	1476.9	854.8	470.2	294.1	223.0	208.4	206.8
65°	838.6	833.8	690.0	488.0	310.2	192.3	169.7	172.9	169.7	164.8	163.2
67.5°	126.0	139.0	139.0	113.1	108.3	121.2	142.2	151.9	143.8	135.7	132.5
70°	80.8	87.3	84.0	72.7	77.6	90.5	101.8	103.4	98.6	90.5	88.9
72.5°	56.6	63.0	51.7	46.9	48.5	53.3	58.2	58.2	56.6	53.3	50.1
75°	33.9	33.9	24.2	22.6	22.6	24.2	24.2	27.5	27.5	25.9	24.2
77.5°	11.3	12.9	8.1	6.5	6.5	6.5	8.1	9.7	9.7	8.1	6.5
80°	1.6	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	1.6
82.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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)