

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: P635497

Luminaire Tested: GWS-SA3D-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-830-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

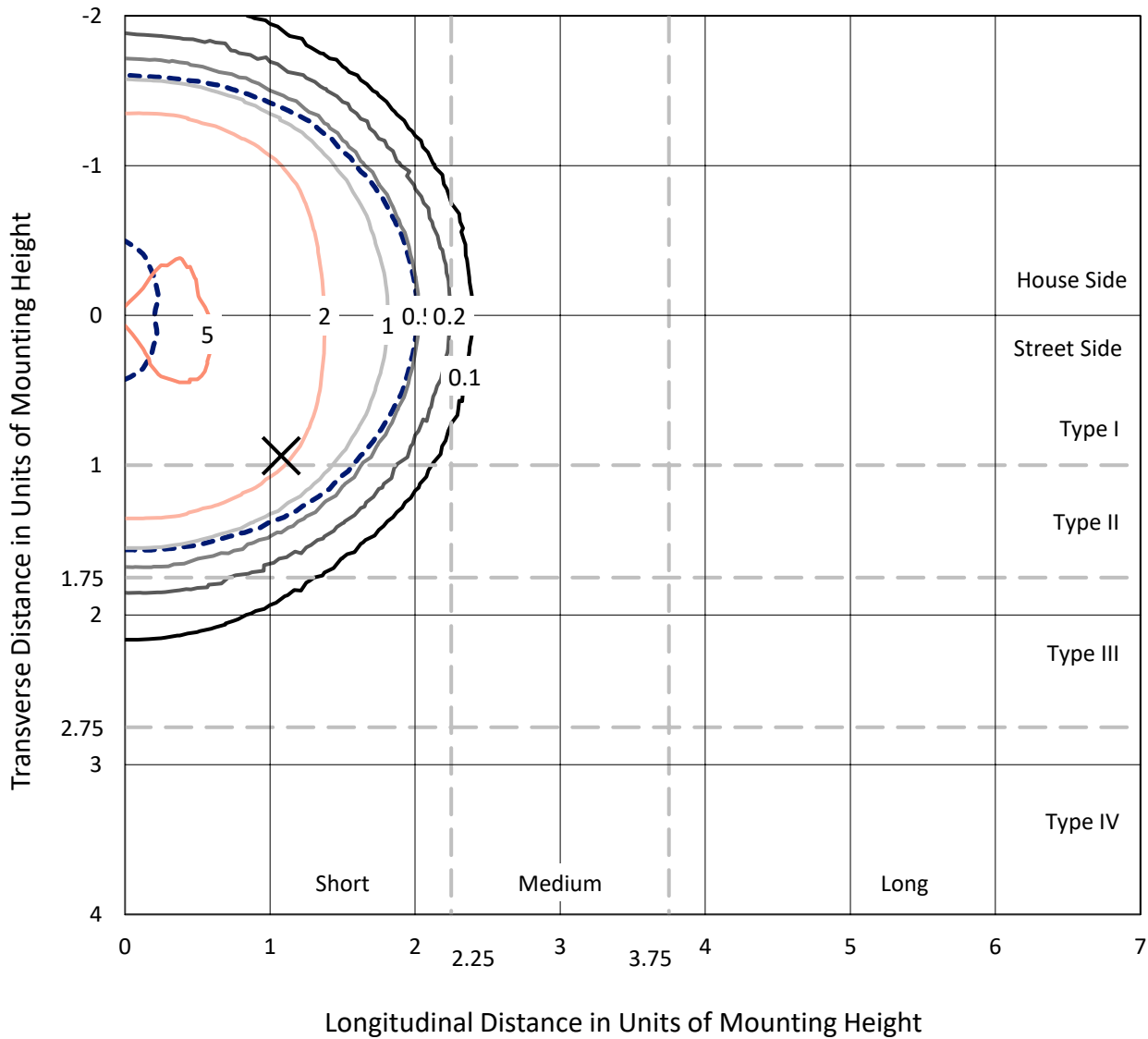
Lumens per Lamp: N/A  
Luminaire Lumens: 12323.7 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

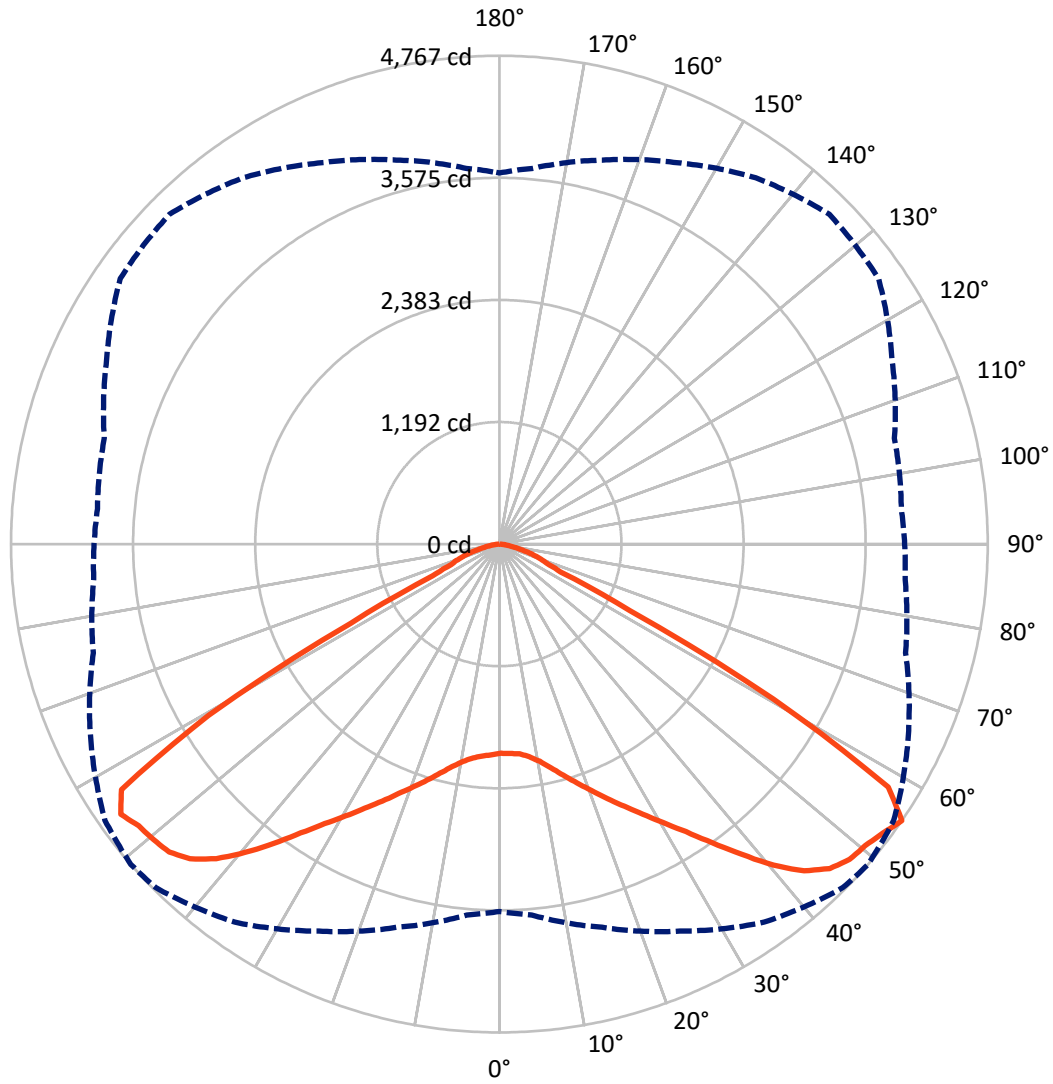
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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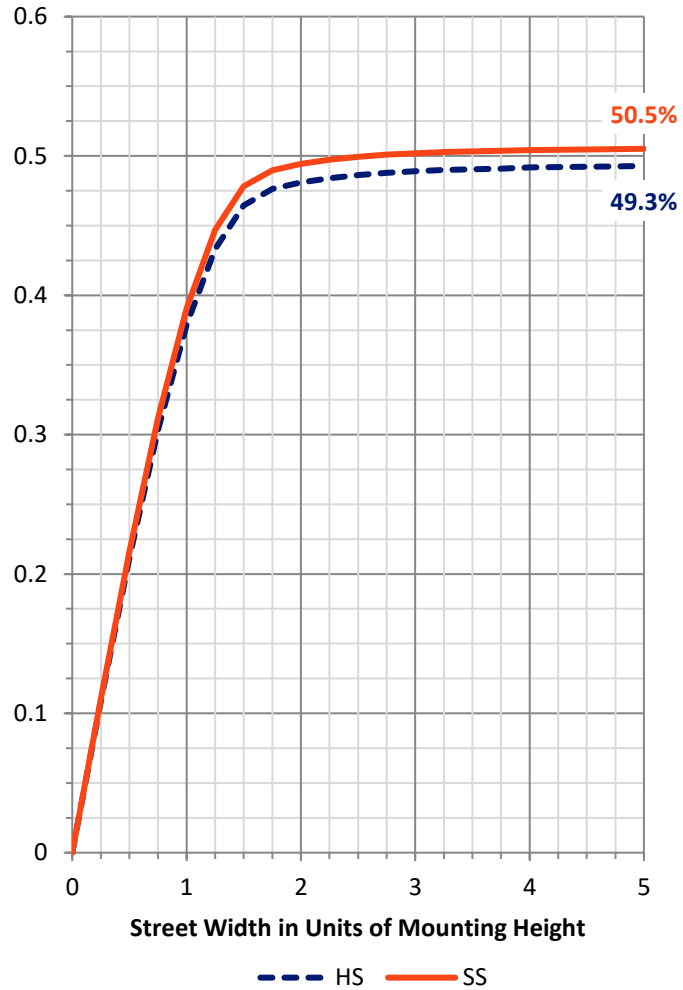
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6101.4	0.0	6101.4
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	6222.3	0.0	6222.3
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	12323.7	0.0	12323.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.1	1.6
10°-20°	656.9	5.3
20°-30°	1251.2	10.2
30°-40°	2121.0	17.2
40°-50°	3191.9	25.9
50°-60°	3493.9	28.4
60°-70°	1104.8	9.0
70°-80°	265.1	2.2
80°-90°	39.8	0.3
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°	12323.7	100.0
0°-180°	12323.7	100.0

**Coefficient of Utilization**



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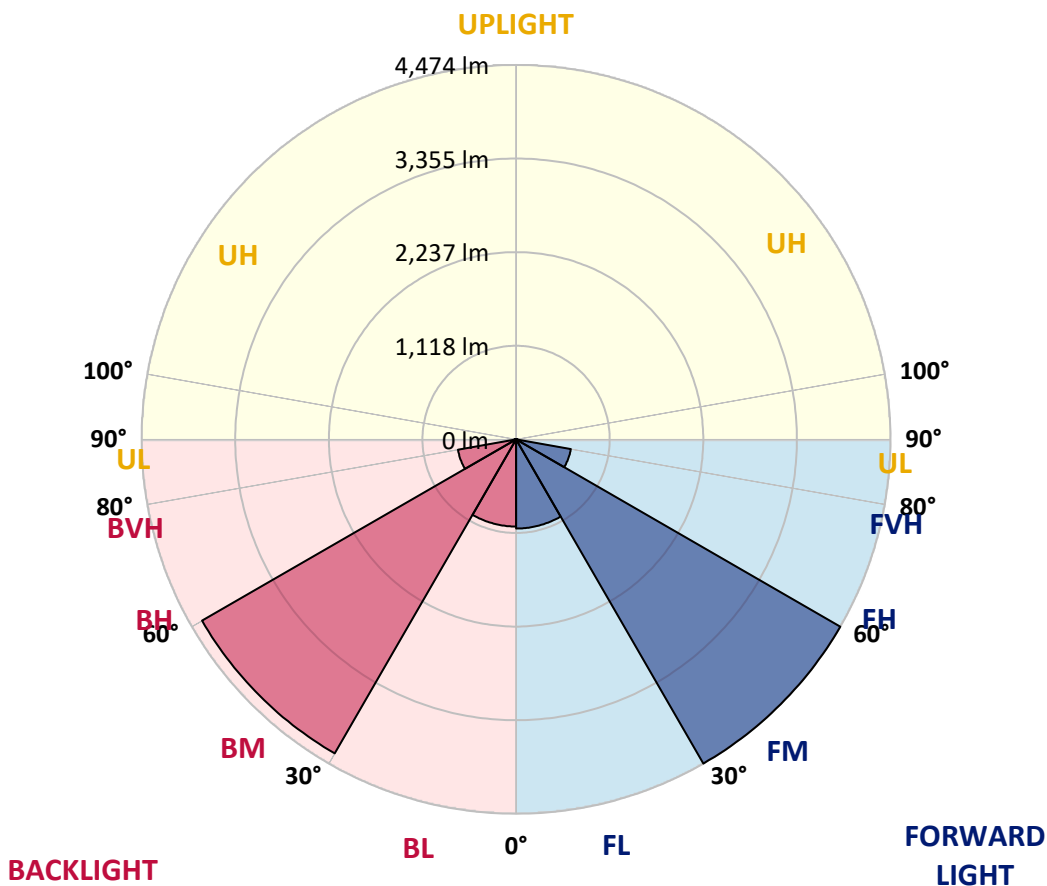
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.5	8.6			
FM (30°-60°)	4473.8	36.3			
FH (60°-80°)	664.5	5.4			G1/1800
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	1041.7	8.5	B3/2500		
BM (30°-60°)	4332.9	35.2	B3/5000		
BH (60°-80°)	705.4	5.7	B2/1000		G1/1800
BVH (80°-90°)	21.4	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5
2.5°	2011.4	2013.4	2017.4	2024.5	2031.5	2041.5	2045.5	2050.5	2049.5	2055.5	2055.5
5°	2001.4	2004.4	2010.4	2020.4	2032.5	2051.5	2056.5	2068.6	2080.6	2095.6	2100.6
7.5°	2013.4	2017.4	2024.5	2040.5	2058.5	2083.6	2093.6	2113.7	2136.7	2163.8	2174.8
10°	2036.5	2041.5	2053.5	2079.6	2108.6	2146.7	2155.7	2180.8	2217.9	2255.0	2277.0
12.5°	2062.5	2070.6	2092.6	2133.7	2176.8	2226.9	2240.9	2272.0	2312.1	2360.2	2390.3
15°	2092.6	2099.6	2133.7	2191.8	2259.0	2325.1	2341.2	2371.2	2416.3	2463.4	2505.5
17.5°	2155.7	2167.8	2207.9	2275.0	2353.2	2431.4	2449.4	2483.5	2519.5	2556.6	2596.7
20°	2241.9	2252.0	2303.1	2386.3	2478.5	2549.6	2567.7	2597.7	2614.8	2633.8	2667.9
22.5°	2328.1	2342.2	2400.3	2498.5	2606.7	2683.9	2697.9	2726.0	2714.0	2708.0	2730.0
25°	2435.4	2454.4	2511.5	2618.8	2729.0	2824.2	2835.2	2859.3	2839.3	2808.2	2807.2
27.5°	2568.7	2585.7	2644.8	2755.1	2864.3	2963.5	2984.6	3016.6	2972.5	2934.5	2907.4
30°	2727.0	2738.0	2803.2	2920.4	3032.7	3126.9	3153.9	3186.0	3152.9	3089.8	3062.7
32.5°	2911.4	2926.4	3001.6	3124.9	3225.1	3319.3	3346.4	3386.5	3350.4	3279.2	3245.1
35°	3132.9	3147.9	3227.1	3361.4	3463.6	3560.8	3579.9	3613.0	3567.9	3485.7	3458.6
37.5°	3373.4	3392.5	3492.7	3620.0	3727.2	3840.5	3841.5	3851.5	3787.3	3685.1	3655.0
40°	3644.0	3669.1	3769.3	3901.6	4030.9	4123.1	4122.1	4094.0	3985.8	3827.4	3781.3
42.5°	3911.6	3931.7	4032.9	4169.2	4298.5	4385.7	4359.6	4291.5	4135.1	3919.6	3858.5
45°	4105.0	4120.1	4226.3	4379.6	4510.9	4565.1	4517.9	4435.8	4224.3	3977.8	3887.6
47.5°	4196.2	4216.3	4323.5	4475.9	4624.2	4655.3	4599.1	4522.0	4276.4	4031.9	3910.6
50°	4147.1	4173.2	4294.5	4435.8	4603.1	4667.3	4627.2	4550.0	4331.5	4085.0	3951.7
52.5°	4019.9	4044.9	4198.2	4369.6	4559.0	4686.3	4685.3	4622.2	4394.7	4100.0	3953.7
55°	3584.9	3634.0	3872.5	4168.2	4504.9	4742.4	4766.5	4699.3	4404.7	4104.0	3974.8
57.5°	2333.1	2419.3	2645.8	3030.7	3706.2	4313.5	4475.9	4491.9	4332.5	4087.0	3978.8
60°	974.1	1043.3	1222.7	1478.3	2036.5	2759.1	3073.8	3389.5	3770.3	3908.6	3941.7
62.5°	605.3	611.3	629.4	687.5	873.9	1226.7	1429.1	1724.8	2291.0	2773.1	2995.6
65°	546.2	549.2	553.2	549.2	558.2	601.3	655.4	758.7	989.2	1228.7	1513.3
67.5°	481.1	485.1	488.1	485.1	488.1	490.1	496.1	505.1	547.2	581.3	607.3
70°	388.9	394.9	399.9	397.9	409.9	409.9	415.9	422.9	444.0	469.0	487.1
72.5°	296.7	291.6	297.7	299.7	310.7	316.7	325.7	333.7	357.8	372.8	395.9
75°	192.4	187.4	196.4	201.4	216.5	224.5	232.5	240.5	257.6	267.6	289.6
77.5°	104.2	103.2	112.2	119.3	135.3	145.3	151.3	157.3	171.4	174.4	188.4
80°	60.1	60.1	66.1	71.2	81.2	92.2	98.2	103.2	113.2	116.3	122.3
82.5°	33.1	33.1	36.1	39.1	47.1	53.1	58.1	62.1	71.2	74.2	77.2
85°	16.0	15.0	17.0	19.0	22.0	25.1	28.1	30.1	37.1	39.1	43.1
87.5°	2.0	2.0	2.0	3.0	4.0	6.0	7.0	7.0	11.0	13.0	15.0
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°	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5
2.5°	2061.5	2048.5	2056.5	2059.5	2059.5	2056.5	2043.5	2039.5	2033.5	2024.5	2024.5
5°	2107.6	2097.6	2099.6	2094.6	2082.6	2067.6	2043.5	2031.5	2021.5	2010.4	2009.4
7.5°	2186.8	2173.8	2171.8	2152.7	2120.7	2088.6	2052.5	2030.5	2015.4	2001.4	2000.4
10°	2290.0	2278.0	2263.0	2224.9	2177.8	2130.7	2081.6	2051.5	2029.5	2009.4	2008.4
12.5°	2405.3	2391.3	2363.2	2307.1	2248.0	2201.8	2145.7	2099.6	2066.6	2039.5	2034.5
15°	2530.6	2510.5	2462.4	2396.3	2338.1	2289.0	2228.9	2162.8	2112.7	2069.6	2064.5
17.5°	2626.8	2600.7	2548.6	2486.5	2438.4	2389.3	2311.1	2227.9	2155.7	2101.6	2093.6
20°	2692.9	2671.9	2612.8	2566.7	2538.6	2495.5	2404.3	2310.1	2228.9	2160.8	2156.7
22.5°	2754.1	2729.0	2670.9	2643.8	2643.8	2614.8	2527.6	2416.3	2321.1	2241.9	2231.9
25°	2823.2	2796.2	2752.1	2749.1	2763.1	2750.1	2644.8	2525.6	2414.3	2325.1	2309.1
27.5°	2919.4	2889.4	2863.3	2881.3	2901.4	2887.4	2770.1	2631.8	2514.5	2424.3	2410.3
30°	3072.8	3035.7	3011.6	3033.7	3072.8	3031.7	2904.4	2758.1	2639.8	2540.6	2533.6
32.5°	3251.2	3209.1	3184.0	3219.1	3254.2	3190.0	3063.7	2923.4	2799.2	2694.9	2682.9
35°	3465.6	3412.5	3375.4	3422.5	3458.6	3395.5	3270.2	3136.9	2998.6	2890.4	2874.3
37.5°	3656.1	3591.9	3566.9	3633.0	3681.1	3640.0	3503.7	3378.4	3227.1	3108.8	3101.8
40°	3794.4	3731.2	3713.2	3822.4	3906.6	3896.6	3774.3	3631.0	3488.7	3352.4	3339.4
42.5°	3854.5	3810.4	3814.4	3961.7	4092.0	4156.2	4046.9	3893.6	3756.3	3615.0	3605.9
45°	3867.5	3840.5	3872.5	4056.9	4228.3	4359.6	4266.4	4138.1	3982.8	3846.5	3842.5
47.5°	3881.5	3866.5	3915.6	4111.1	4314.5	4466.8	4414.7	4282.4	4125.1	3991.8	3981.8
50°	3914.6	3908.6	3963.7	4149.1	4355.6	4495.9	4436.8	4305.5	4144.1	4012.8	3988.8
52.5°	3924.6	3914.6	3993.8	4208.3	4423.7	4494.9	4367.6	4196.2	4033.9	3887.6	3862.5
55°	3955.7	3937.7	3991.8	4230.3	4517.9	4553.0	4363.6	4107.0	3880.5	3681.1	3622.0
57.5°	3963.7	3943.7	3978.8	4194.2	4415.7	4384.7	3835.4	3314.3	2887.4	2665.9	2690.9
60°	3920.6	3926.6	3866.5	3842.5	3541.8	3126.9	2348.2	1877.1	1474.2	1303.9	1341.0
62.5°	2984.6	3009.6	2804.2	2438.4	1875.1	1486.3	983.2	763.7	646.4	616.4	621.4
65°	1506.3	1540.4	1326.9	1097.4	815.8	659.5	570.3	552.2	546.2	539.2	539.2
67.5°	596.3	606.3	598.3	560.2	521.1	507.1	503.1	501.1	494.1	490.1	491.1
70°	479.1	487.1	475.0	451.0	435.0	434.0	432.0	427.9	422.9	422.9	425.9
72.5°	390.9	398.9	381.8	366.8	354.8	345.8	340.8	337.7	330.7	330.7	333.7
75°	287.6	292.6	278.6	276.6	263.6	254.6	246.5	242.5	233.5	229.5	232.5
77.5°	191.4	190.4	183.4	183.4	178.4	167.4	158.3	149.3	137.3	129.3	131.3
80°	124.3	124.3	121.3	121.3	116.3	107.2	96.2	87.2	80.2	74.2	74.2
82.5°	79.2	78.2	77.2	76.2	74.2	65.1	57.1	51.1	46.1	42.1	43.1
85°	44.1	44.1	42.1	42.1	38.1	33.1	29.1	25.1	22.0	21.0	21.0
87.5°	15.0	15.0	14.0	14.0	12.0	9.0	7.0	6.0	5.0	4.0	5.0
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)