

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: P639017

Luminaire Tested: GWS-SA5B-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639017  
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-SA5B-722-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

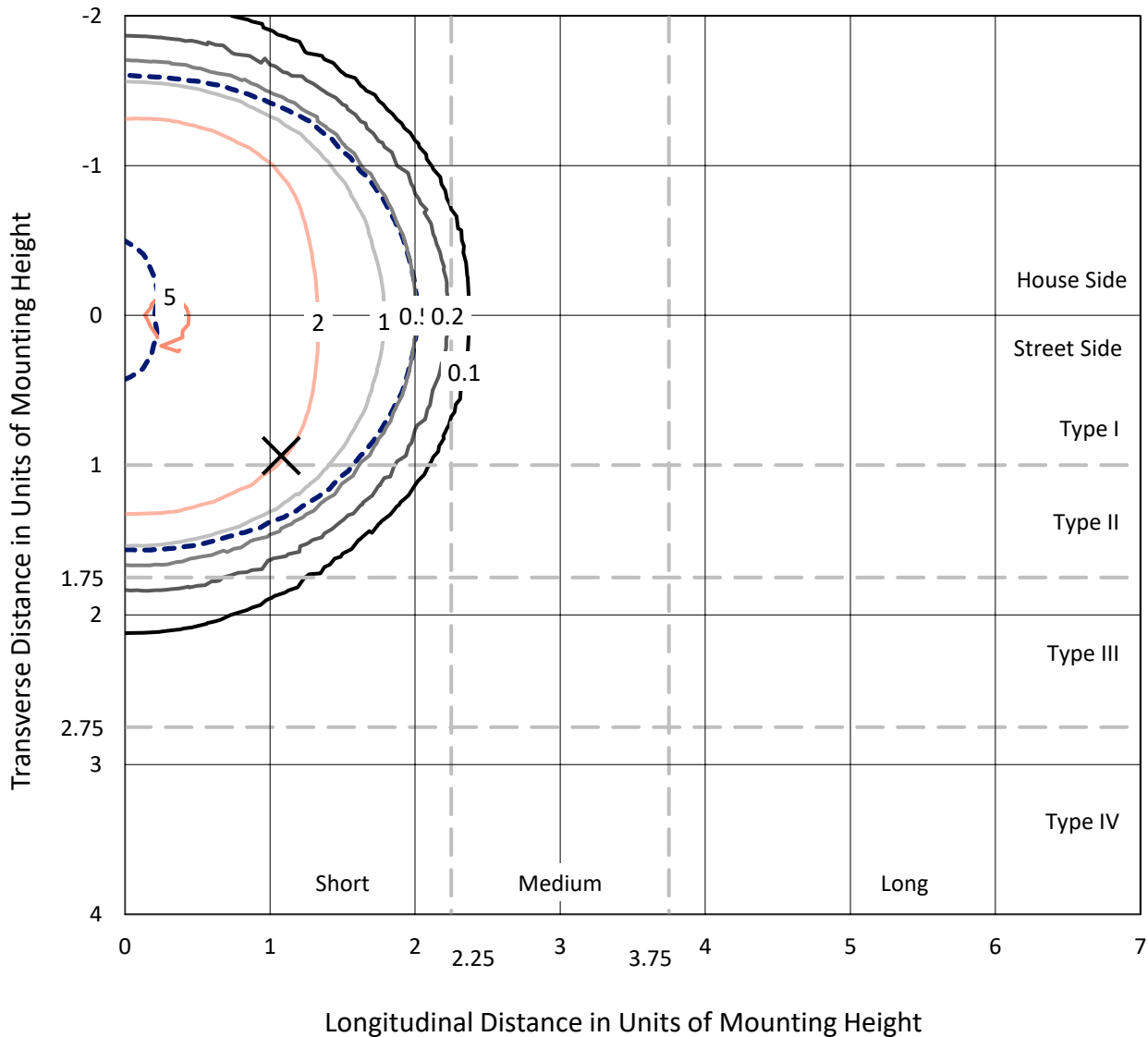
Lumens per Lamp: N/A  
Luminaire Lumens: 11529.5 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

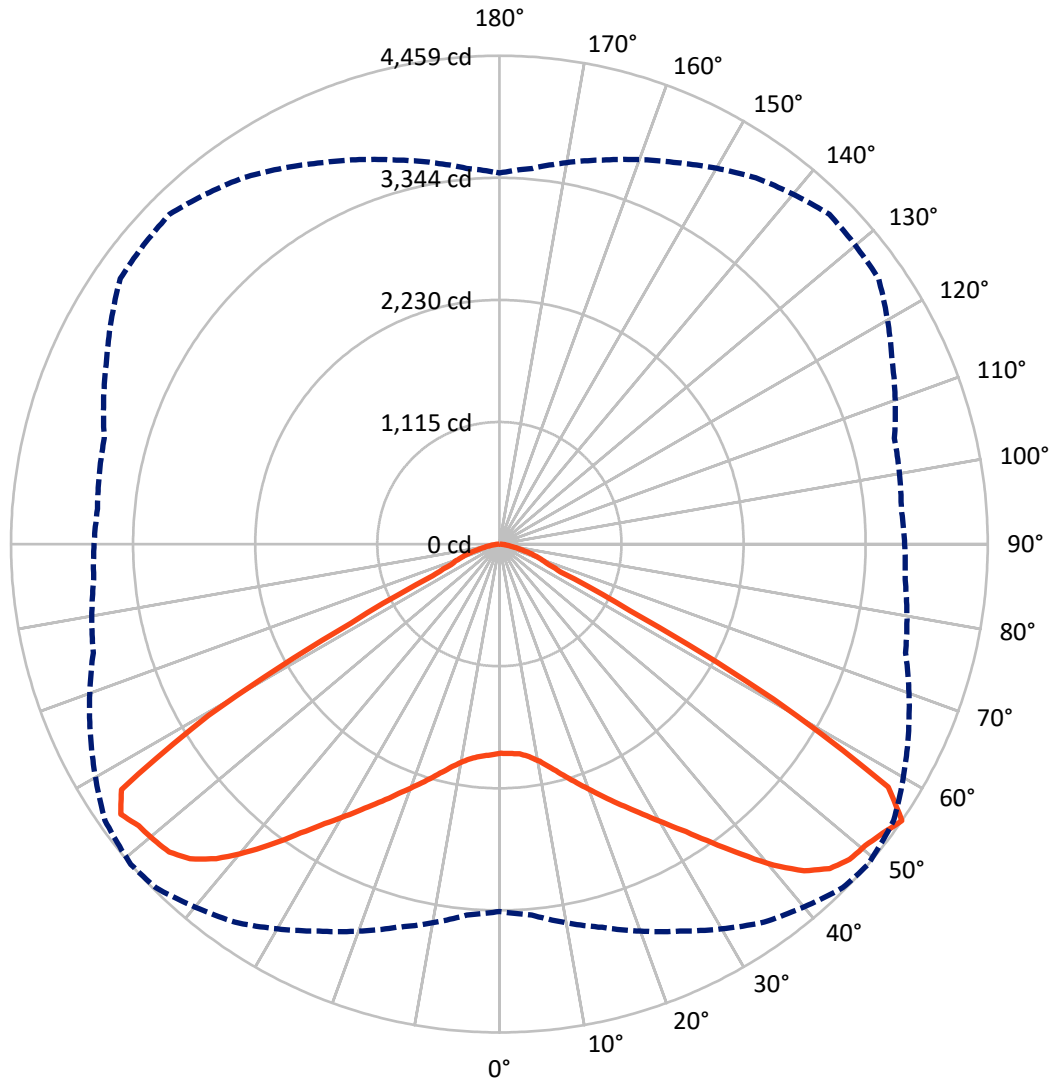
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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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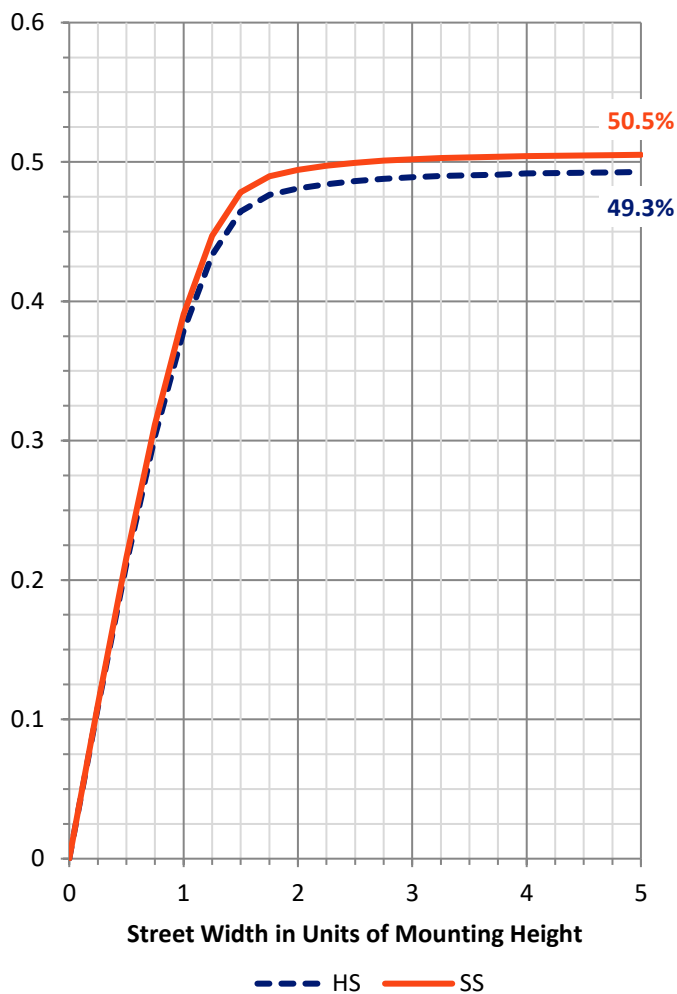
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5708.2	0.0	5708.2
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	5821.3	0.0	5821.3
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	11529.5	0.0	11529.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.3	1.6
10°-20°	614.5	5.3
20°-30°	1170.5	10.2
30°-40°	1984.3	17.2
40°-50°	2986.2	25.9
50°-60°	3268.7	28.4
60°-70°	1033.6	9.0
70°-80°	248.1	2.2
80°-90°	37.2	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°	11529.5	100.0
0°-180°	11529.5	100.0

**Coefficient of Utilization**



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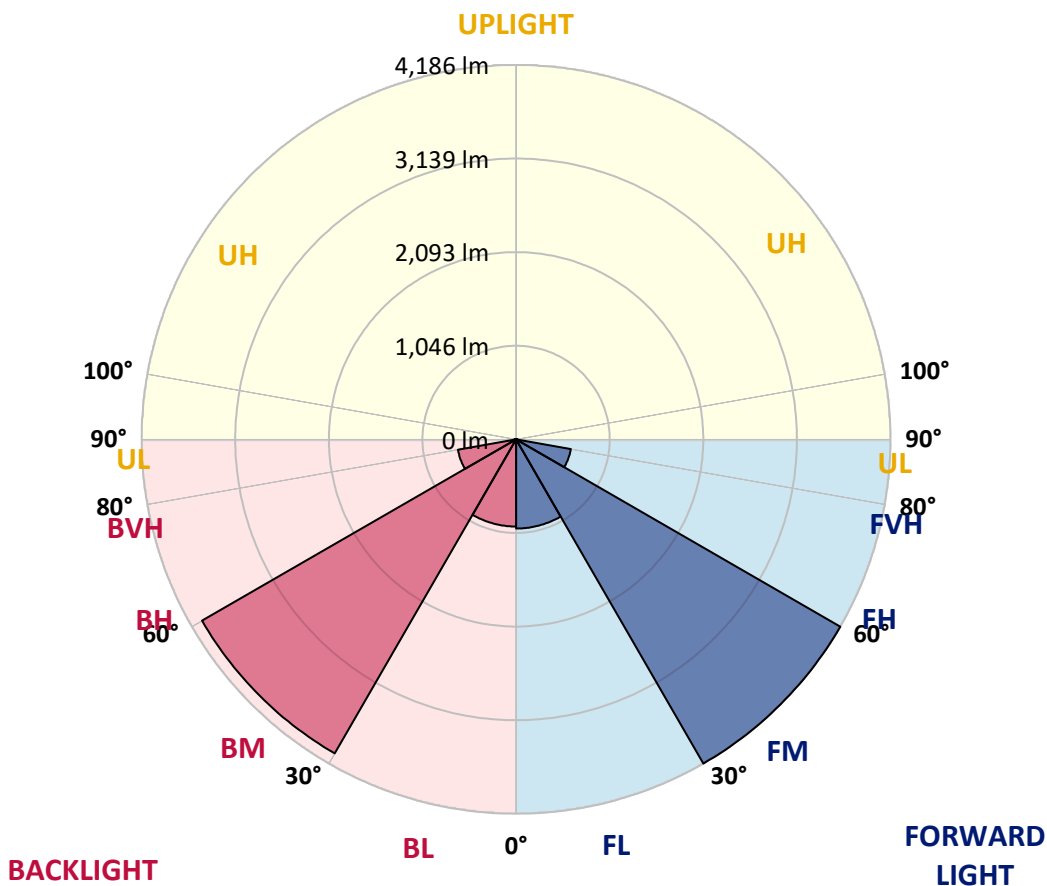
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.8	8.6			
FM (30°-60°)	4185.5	36.3			
FH (60°-80°)	621.7	5.4			G0/660
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	974.6	8.5	B2/1000		
BM (30°-60°)	4053.7	35.2	B3/5000		
BH (60°-80°)	659.9	5.7	B2/1000		G0/660
BVH (80°-90°)	20.0	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°	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9
2.5°	1881.8	1883.7	1887.4	1894.0	1900.6	1909.9	1913.7	1918.4	1917.4	1923.1	1923.1
5°	1872.4	1875.2	1880.9	1890.2	1901.5	1919.3	1924.0	1935.2	1946.5	1960.6	1965.3
7.5°	1883.7	1887.4	1894.0	1909.0	1925.9	1949.3	1958.7	1977.4	1999.0	2024.3	2034.6
10°	1905.2	1909.9	1921.2	1945.6	1972.8	2008.4	2016.8	2040.3	2075.0	2109.6	2130.3
12.5°	1929.6	1937.1	1957.8	1996.2	2036.5	2083.4	2096.5	2125.6	2163.1	2208.1	2236.2
15°	1957.8	1964.3	1996.2	2050.6	2113.4	2175.3	2190.3	2218.4	2260.6	2304.7	2344.0
17.5°	2016.8	2028.1	2065.6	2128.4	2201.5	2274.7	2291.5	2323.4	2357.2	2391.9	2429.4
20°	2097.5	2106.8	2154.7	2232.5	2318.7	2385.3	2402.2	2430.3	2446.3	2464.1	2495.9
22.5°	2178.1	2191.2	2245.6	2337.5	2438.7	2510.9	2524.1	2550.3	2539.1	2533.4	2554.1
25°	2278.4	2296.2	2349.7	2450.0	2553.1	2642.2	2652.5	2675.0	2656.3	2627.2	2626.3
27.5°	2403.1	2419.1	2474.4	2577.5	2679.7	2772.5	2792.2	2822.2	2781.0	2745.4	2720.0
30°	2551.3	2561.6	2622.5	2732.2	2837.2	2925.4	2950.7	2980.7	2949.8	2890.7	2865.4
32.5°	2723.8	2737.8	2808.2	2923.5	3017.3	3105.4	3130.7	3168.2	3134.5	3067.9	3036.0
35°	2931.0	2945.1	3019.1	3144.8	3240.4	3331.4	3349.2	3380.1	3337.9	3261.0	3235.7
37.5°	3156.0	3173.8	3267.6	3386.7	3487.0	3593.0	3593.9	3603.3	3543.3	3447.6	3419.5
40°	3409.2	3432.6	3526.4	3650.2	3771.1	3857.4	3856.4	3830.2	3728.9	3580.8	3537.6
42.5°	3659.5	3678.3	3773.0	3900.5	4021.5	4103.0	4078.6	4014.9	3868.6	3667.0	3609.8
45°	3840.5	3854.6	3953.9	4097.4	4220.2	4270.9	4226.8	4149.9	3952.1	3721.4	3637.0
47.5°	3925.8	3944.6	4044.9	4187.4	4326.2	4355.2	4302.7	4230.5	4000.8	3772.0	3658.6
50°	3879.9	3904.2	4017.7	4149.9	4306.5	4366.5	4329.0	4256.8	4052.4	3821.7	3697.0
52.5°	3760.8	3784.2	3927.7	4088.0	4265.2	4384.3	4383.4	4324.3	4111.5	3835.8	3698.9
55°	3353.9	3399.8	3623.0	3899.6	4214.6	4436.8	4459.3	4396.5	4120.8	3839.6	3718.6
57.5°	2182.8	2263.4	2475.3	2835.4	3467.3	4035.5	4187.4	4202.4	4053.3	3823.6	3722.4
60°	911.4	976.1	1143.9	1383.0	1905.2	2581.3	2875.7	3171.0	3527.3	3656.7	3687.7
62.5°	566.3	571.9	588.8	643.2	817.6	1147.6	1337.0	1613.6	2143.4	2594.4	2802.5
65°	511.0	513.8	517.6	513.8	522.3	562.6	613.2	709.8	925.4	1149.5	1415.8
67.5°	450.1	453.8	456.6	453.8	456.6	458.5	464.1	472.6	511.9	543.8	568.2
70°	363.8	369.4	374.1	372.2	383.5	383.5	389.1	395.7	415.4	438.8	455.7
72.5°	277.5	272.8	278.5	280.3	290.7	296.3	304.7	312.2	334.7	348.8	370.4
75°	180.0	175.3	183.8	188.5	202.5	210.0	217.5	225.0	241.0	250.3	271.0
77.5°	97.5	96.6	105.0	111.6	126.6	136.0	141.6	147.2	160.3	163.1	176.3
80°	56.3	56.3	61.9	66.6	75.9	86.3	91.9	96.6	106.0	108.8	114.4
82.5°	30.9	30.9	33.8	36.6	44.1	49.7	54.4	58.1	66.6	69.4	72.2
85°	15.0	14.1	15.9	17.8	20.6	23.4	26.3	28.1	34.7	36.6	40.3
87.5°	1.9	1.9	1.9	2.8	3.8	5.6	6.6	6.6	10.3	12.2	14.1
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°	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9	1909.9
2.5°	1928.7	1916.5	1924.0	1926.8	1926.8	1924.0	1911.8	1908.1	1902.4	1894.0	1894.0
5°	1971.8	1962.4	1964.3	1959.6	1948.4	1934.3	1911.8	1900.6	1891.2	1880.9	1879.9
7.5°	2045.9	2033.7	2031.8	2014.0	1984.0	1954.0	1920.2	1899.6	1885.6	1872.4	1871.5
10°	2142.5	2131.2	2117.1	2081.5	2037.4	1993.4	1947.4	1919.3	1898.7	1879.9	1879.0
12.5°	2250.3	2237.2	2210.9	2158.4	2103.1	2060.0	2007.4	1964.3	1933.4	1908.1	1903.4
15°	2367.5	2348.7	2303.7	2241.8	2187.5	2141.5	2085.3	2023.4	1976.5	1936.2	1931.5
17.5°	2457.5	2433.1	2384.4	2326.2	2281.2	2235.3	2162.2	2084.3	2016.8	1966.2	1958.7
20°	2519.4	2499.7	2444.4	2401.2	2375.0	2334.7	2249.3	2161.2	2085.3	2021.5	2017.8
22.5°	2576.6	2553.1	2498.8	2473.4	2473.4	2446.3	2364.7	2260.6	2171.5	2097.5	2088.1
25°	2641.3	2616.0	2574.7	2571.9	2585.0	2572.8	2474.4	2362.8	2258.7	2175.3	2160.3
27.5°	2731.3	2703.2	2678.8	2695.7	2714.4	2701.3	2591.6	2462.2	2352.5	2268.1	2255.0
30°	2874.7	2840.1	2817.5	2838.2	2874.7	2836.3	2717.2	2580.3	2469.7	2376.9	2370.3
32.5°	3041.6	3002.3	2978.8	3011.6	3044.5	2984.4	2866.3	2735.0	2618.8	2521.3	2510.0
35°	3242.3	3192.6	3157.9	3202.0	3235.7	3176.7	3059.5	2934.8	2805.4	2704.1	2689.1
37.5°	3420.4	3360.4	3337.0	3398.9	3443.9	3405.4	3277.9	3160.7	3019.1	2908.5	2901.9
40°	3549.8	3490.8	3473.9	3576.1	3654.8	3645.5	3531.1	3397.0	3263.9	3136.3	3124.1
42.5°	3606.1	3564.8	3568.6	3706.4	3828.3	3888.3	3786.1	3642.7	3514.2	3382.0	3373.6
45°	3618.3	3593.0	3623.0	3795.5	3955.8	4078.6	3991.4	3871.4	3726.1	3598.6	3594.8
47.5°	3631.4	3617.3	3663.3	3846.1	4036.5	4179.0	4130.2	4006.4	3859.2	3734.5	3725.2
50°	3662.3	3656.7	3708.3	3881.7	4074.9	4206.2	4150.8	4028.0	3877.1	3754.2	3731.7
52.5°	3671.7	3662.3	3736.4	3937.1	4138.7	4205.2	4086.1	3925.8	3773.9	3637.0	3613.6
55°	3700.8	3683.9	3734.5	3957.7	4226.8	4259.6	4082.4	3842.4	3630.5	3443.9	3388.6
57.5°	3708.3	3689.5	3722.4	3923.9	4131.2	4102.1	3588.3	3100.7	2701.3	2494.1	2517.5
60°	3668.0	3673.6	3617.3	3594.8	3313.5	2925.4	2196.8	1756.2	1379.2	1219.8	1254.5
62.5°	2792.2	2815.7	2623.5	2281.2	1754.3	1390.5	919.8	714.5	604.8	576.6	581.3
65°	1409.2	1441.1	1241.4	1026.7	763.2	617.0	533.5	516.6	511.0	504.4	504.4
67.5°	557.9	567.3	559.8	524.1	487.6	474.4	470.7	468.8	462.2	458.5	459.4
70°	448.2	455.7	444.4	421.9	406.9	406.0	404.1	400.4	395.7	395.7	398.5
72.5°	365.7	373.2	357.2	343.2	331.9	323.5	318.8	316.0	309.4	309.4	312.2
75°	269.1	273.8	260.7	258.8	246.6	238.2	230.7	226.9	218.5	214.7	217.5
77.5°	179.1	178.1	171.6	171.6	166.9	156.6	148.1	139.7	128.5	121.0	122.8
80°	116.3	116.3	113.5	113.5	108.8	100.3	90.0	81.6	75.0	69.4	69.4
82.5°	74.1	73.1	72.2	71.3	69.4	60.9	53.4	47.8	43.1	39.4	40.3
85°	41.3	41.3	39.4	39.4	35.6	30.9	27.2	23.4	20.6	19.7	19.7
87.5°	14.1	14.1	13.1	13.1	11.3	8.4	6.6	5.6	4.7	3.8	4.7
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)