

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: P639272

Luminaire Tested: GWS-SA5B-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

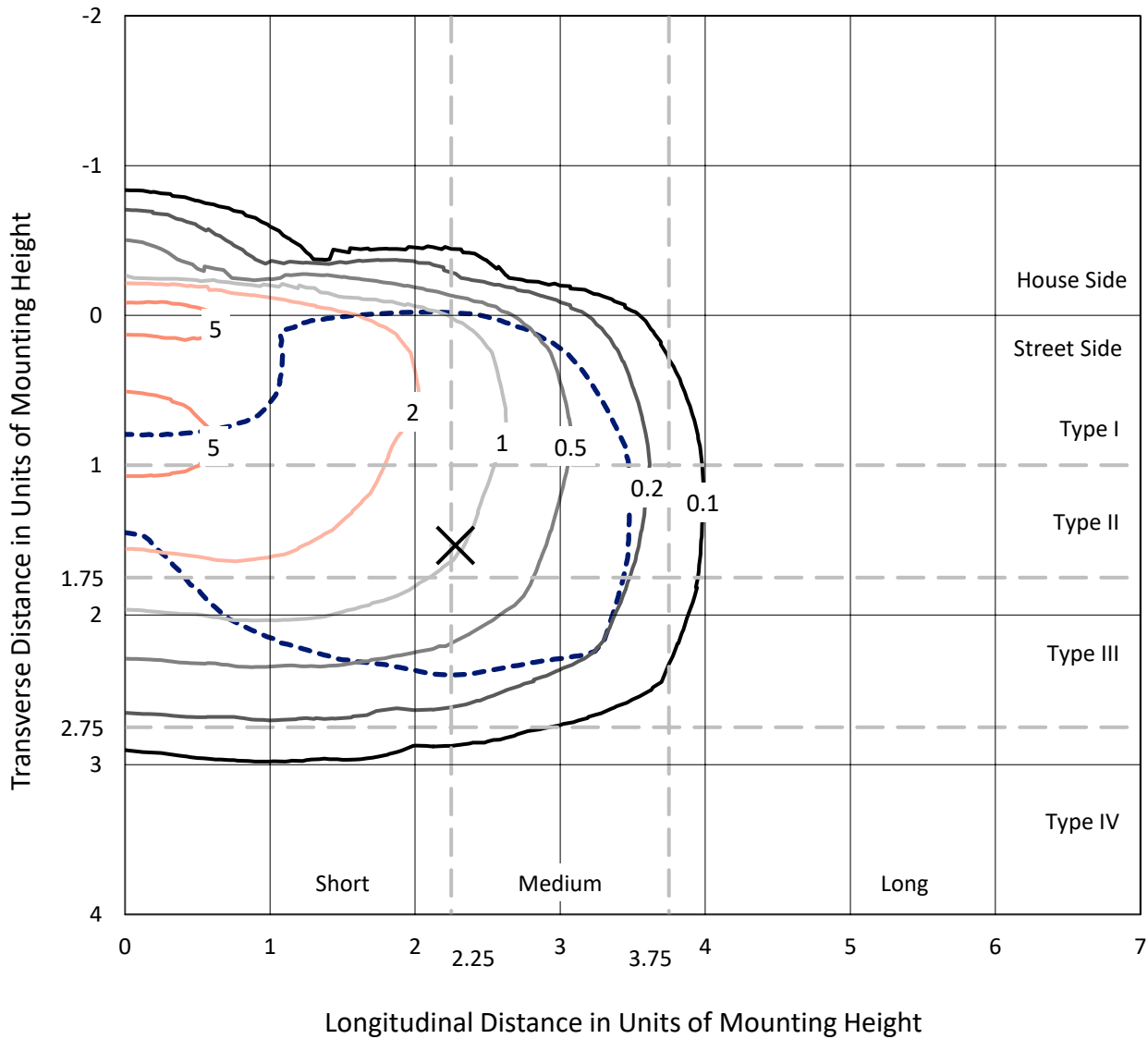
Lumens per Lamp: N/A  
Luminaire Lumens: 13899.7 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

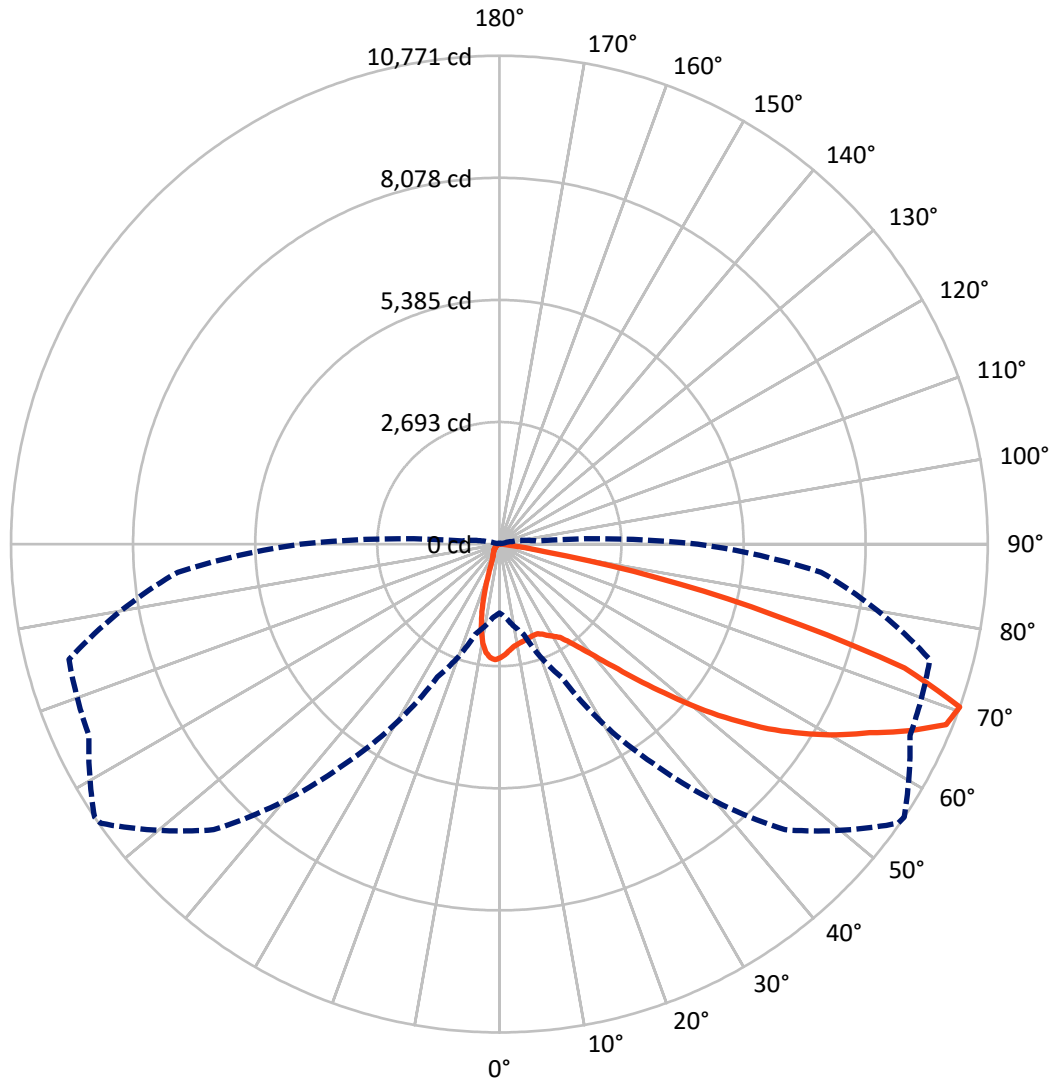
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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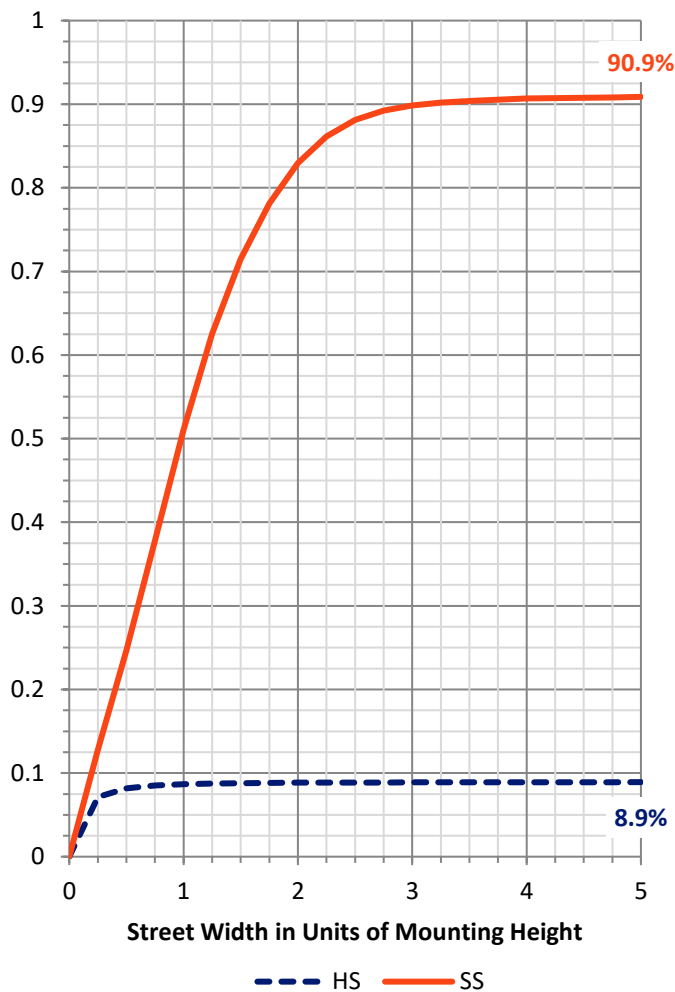
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1248.5	0.0	1248.5
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	12651.2	0.0	12651.2
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	13899.7	0.0	13899.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.2	1.5
10°-20°	484.0	3.5
20°-30°	766.6	5.5
30°-40°	1322.0	9.5
40°-50°	2232.4	16.1
50°-60°	3280.2	23.6
60°-70°	3888.8	28.0
70°-80°	1658.4	11.9
80°-90°	52.1	0.4
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°	13899.7	100.0
0°-180°	13899.7	100.0

**Coefficient of Utilization**



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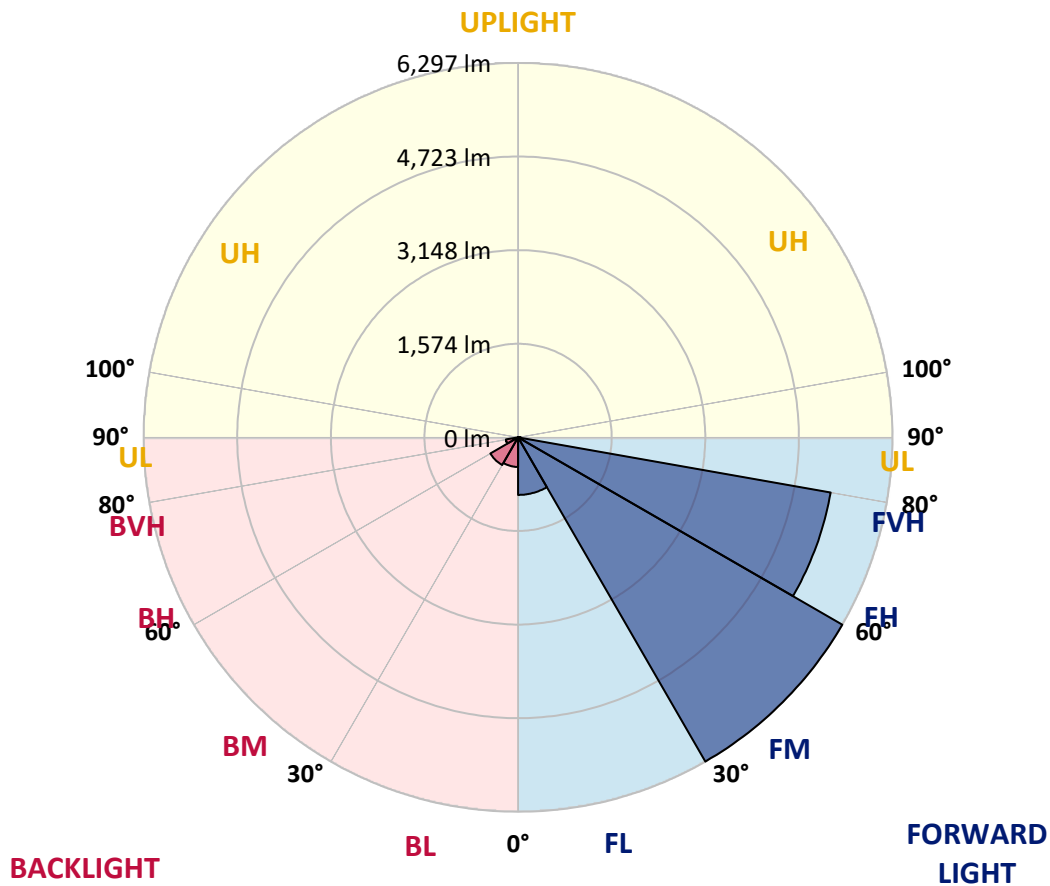
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.6	7.0			
FM (30°-60°)	6296.9	45.3			
FH (60°-80°)	5339.0	38.4			G3/7500
FVH (80°-90°)	46.8	0.3			G1/100
BL (0°-30°)	497.2	3.6	B1/500		
BM (30°-60°)	537.7	3.9	B1/1000		
BH (60°-80°)	208.2	1.5	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3
2.5°	2333.1	2329.3	2331.9	2351.0	2386.6	2403.2	2431.2	2436.2	2459.2	2488.4	2499.9
5°	2181.7	2168.9	2175.3	2202.0	2242.8	2288.6	2340.8	2354.8	2412.1	2477.0	2525.3
7.5°	2042.9	2028.9	2044.2	2086.2	2143.5	2193.1	2270.8	2279.7	2371.3	2485.9	2573.7
10°	1825.3	1829.1	1859.6	1933.5	2021.3	2124.4	2228.8	2241.5	2354.8	2515.2	2651.4
12.5°	1658.5	1649.6	1682.7	1766.7	1890.2	2040.4	2197.0	2213.5	2356.1	2559.7	2750.6
15°	1580.9	1578.3	1592.3	1653.4	1773.1	1950.0	2167.7	2189.3	2372.6	2600.4	2844.8
17.5°	1583.4	1579.6	1578.3	1614.0	1703.1	1882.6	2135.9	2163.9	2386.6	2645.0	2944.1
20°	1694.2	1676.4	1644.5	1628.0	1681.4	1839.3	2114.2	2146.0	2407.0	2692.1	3049.8
22.5°	1925.8	1932.2	1846.9	1757.8	1732.4	1844.4	2111.7	2148.6	2451.5	2765.9	3179.6
25°	2389.2	2379.0	2221.1	2021.3	1882.6	1902.9	2156.2	2200.8	2539.4	2871.6	3301.8
27.5°	2969.6	2978.5	2762.1	2443.9	2153.7	2023.8	2237.7	2282.2	2641.2	2937.8	3383.3
30°	3602.2	3593.3	3361.6	3009.0	2538.1	2225.0	2319.1	2358.6	2692.1	2973.4	3467.3
32.5°	4200.4	4180.1	3950.9	3581.8	3028.1	2541.9	2431.2	2454.1	2759.6	3051.0	3580.5
35°	4710.8	4709.6	4509.7	4116.4	3532.2	2939.0	2623.4	2642.5	2885.6	3174.5	3747.3
37.5°	5237.8	5220.0	4996.0	4637.0	4050.2	3374.3	2917.4	2909.8	3084.1	3356.5	3952.2
40°	5670.6	5659.1	5487.3	5142.3	4588.7	3855.5	3273.8	3250.9	3319.6	3608.6	4237.3
42.5°	5991.3	5992.6	5939.2	5729.1	5158.9	4411.7	3721.8	3686.2	3684.9	3989.1	4614.1
45°	6234.5	6251.0	6331.2	6299.4	5832.2	5059.6	4295.9	4259.0	4196.6	4483.0	5045.6
47.5°	6347.7	6369.4	6611.2	6738.5	6421.6	5702.4	4979.4	4901.8	4779.6	5139.8	5528.0
50°	6336.3	6374.5	6711.8	7098.7	6956.2	6354.1	5724.0	5687.1	5487.3	5834.8	6005.3
52.5°	6076.6	6158.1	6718.1	7317.7	7367.3	6954.9	6494.1	6425.4	6328.6	6560.3	6453.4
55°	5371.5	5470.7	6449.6	7387.7	7688.1	7479.3	7247.6	7191.6	7031.3	7245.1	6844.2
57.5°	4988.3	5073.6	5884.4	7353.3	7960.4	7964.3	7918.4	7872.6	7740.2	7922.3	7302.4
60°	4757.9	4843.2	5582.8	7227.3	8207.4	8476.0	8548.5	8543.4	8352.5	8692.3	7839.5
62.5°	4420.6	4537.7	5268.4	6900.2	8383.0	8980.0	9198.9	9164.6	8952.0	9494.2	8371.6
65°	3739.7	3841.5	4624.3	6360.5	8279.9	9397.5	9904.1	9921.9	9676.3	10249.0	8791.6
67.5°	2622.1	2697.2	3474.9	5227.6	7579.9	9535.0	10625.8	10624.5	10205.8	10636.0	8605.8
70°	1519.8	1622.9	2053.1	3231.8	5897.1	8910.0	10734.0	10770.9	9990.7	9827.7	7121.6
72.5°	588.1	673.3	1163.4	1717.1	3075.2	6825.1	9233.3	9341.5	8361.4	7581.1	4956.5
75°	175.7	196.0	547.3	913.9	1234.7	3296.7	6251.0	6281.6	5735.5	4728.7	2540.6
77.5°	131.1	145.1	239.3	462.0	432.8	999.2	3234.3	3532.2	3044.7	1689.1	700.1
80°	89.1	105.6	170.6	225.3	160.4	266.0	908.8	997.9	929.2	379.3	175.7
82.5°	39.5	50.9	120.9	113.3	58.6	76.4	280.0	297.8	192.2	114.6	61.1
85°	3.8	5.1	45.8	49.6	21.6	17.8	58.6	58.6	42.0	39.5	25.5
87.5°	0.0	0.0	1.3	2.5	2.5	3.8	5.1	6.4	7.6	10.2	12.7
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°	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3	2506.3
2.5°	2529.2	2513.9	2533.0	2548.3	2552.1	2524.1	2507.5	2483.3	2478.3	2479.5	2473.2
5°	2563.5	2555.9	2569.9	2553.4	2510.1	2428.6	2358.6	2281.0	2239.0	2214.8	2212.2
7.5°	2627.2	2623.4	2608.1	2533.0	2398.1	2217.3	2042.9	1872.4	1766.7	1728.5	1722.2
10°	2721.4	2713.7	2651.4	2473.2	2185.5	1838.0	1545.2	1300.9	1151.9	1108.7	1055.2
12.5°	2829.6	2814.3	2678.1	2344.6	1864.7	1383.6	1018.3	744.6	616.1	577.9	577.9
15°	2933.9	2900.8	2662.8	2132.0	1470.2	899.9	569.0	430.2	390.8	380.6	380.6
17.5°	3040.9	2977.2	2603.0	1841.8	1015.7	532.1	379.3	352.6	347.5	348.8	350.0
20°	3141.4	3042.1	2497.3	1493.1	647.9	371.7	339.9	333.5	330.9	333.5	332.2
22.5°	3250.9	3102.0	2337.0	1112.5	421.3	334.8	323.3	318.2	315.7	319.5	319.5
25°	3359.1	3145.2	2124.4	748.4	334.8	311.9	305.5	300.4	297.8	299.1	299.1
27.5°	3415.1	3128.7	1845.6	477.3	300.4	288.9	282.6	276.2	272.4	271.1	272.4
30°	3453.3	3077.8	1504.5	339.9	272.4	258.4	252.0	246.9	236.8	230.4	232.9
32.5°	3513.1	3026.9	1134.1	285.1	249.5	227.8	217.7	204.9	190.9	184.6	184.6
35°	3584.4	2956.8	795.5	257.1	225.3	202.4	183.3	161.7	145.1	140.0	140.0
37.5°	3678.6	2890.7	529.5	238.0	204.9	180.7	154.0	128.6	110.7	108.2	106.9
40°	3819.8	2834.7	372.9	224.0	187.1	157.8	126.0	99.3	86.6	82.7	82.7
42.5°	4003.1	2777.4	295.3	210.0	171.8	136.2	100.6	78.9	68.7	66.2	64.9
45°	4229.7	2709.9	257.1	197.3	156.6	113.3	80.2	66.2	58.6	56.0	56.0
47.5°	4475.4	2618.3	239.3	180.7	138.7	91.6	67.5	57.3	53.5	52.2	50.9
50°	4717.2	2494.8	224.0	165.5	118.4	75.1	58.6	52.2	49.6	48.4	48.4
52.5°	4928.5	2351.0	204.9	147.7	96.7	64.9	52.2	48.4	45.8	43.3	42.0
55°	5109.2	2194.4	180.7	127.3	78.9	57.3	48.4	44.6	42.0	39.5	38.2
57.5°	5342.2	2105.3	145.1	103.1	64.9	50.9	44.6	40.7	38.2	34.4	34.4
60°	5600.6	2040.4	108.2	81.5	56.0	47.1	40.7	36.9	34.4	30.5	30.5
62.5°	5808.0	1943.7	85.3	66.2	48.4	42.0	36.9	33.1	30.5	26.7	26.7
65°	5887.0	1743.8	70.0	52.2	39.5	36.9	33.1	30.5	26.7	22.9	22.9
67.5°	5530.6	1344.1	58.6	42.0	33.1	31.8	29.3	28.0	22.9	20.4	19.1
70°	4379.9	819.7	48.4	34.4	28.0	26.7	26.7	24.2	20.4	19.1	17.8
72.5°	3001.4	422.6	39.5	28.0	24.2	24.2	22.9	21.6	19.1	17.8	17.8
75°	1559.3	141.3	30.5	21.6	19.1	20.4	20.4	19.1	17.8	17.8	16.5
77.5°	446.8	63.6	22.9	16.5	15.3	15.3	16.5	16.5	16.5	15.3	15.3
80°	115.8	36.9	16.5	12.7	12.7	12.7	12.7	14.0	15.3	14.0	14.0
82.5°	47.1	20.4	11.5	10.2	10.2	10.2	10.2	11.5	12.7	12.7	12.7
85°	29.3	10.2	8.9	8.9	8.9	7.6	7.6	8.9	8.9	10.2	10.2
87.5°	17.8	7.6	7.6	7.6	7.6	6.4	6.4	6.4	6.4	6.4	6.4
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)