

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: P632752

Luminaire Tested: GWS-SA2D-735-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11316.7 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
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

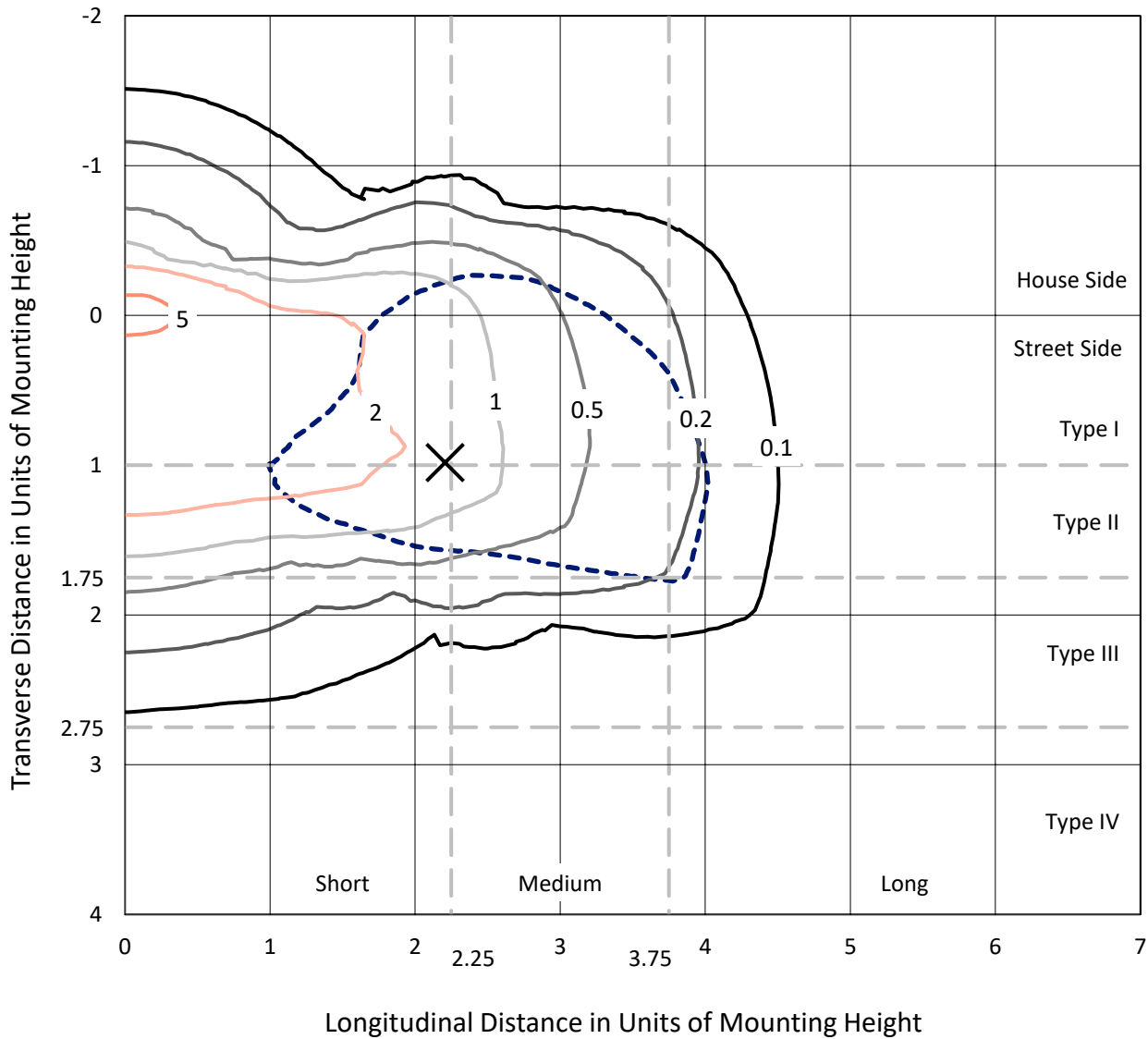


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### Iso-Footcandle Lines of Horizontal Illumination

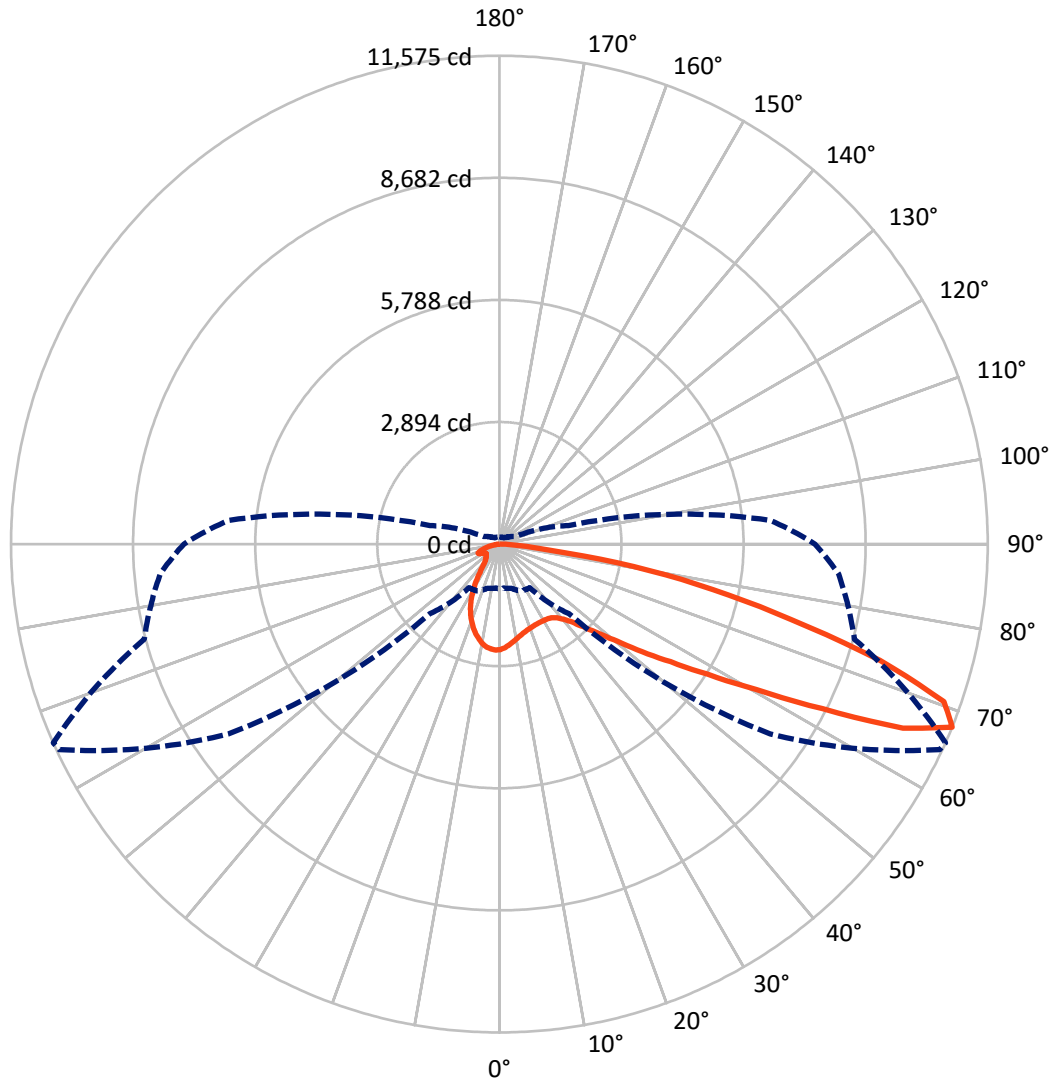
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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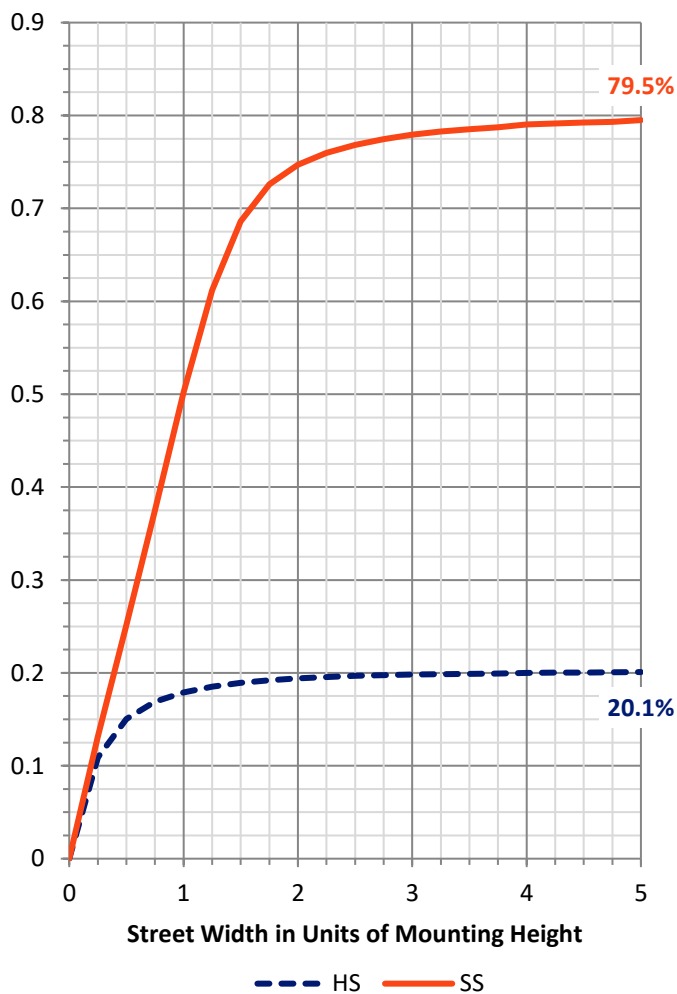
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2296.4	0.0	2296.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	9020.3	0.0	9020.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	11316.7	0.0	11316.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	1.9
10°-20°	539.4	4.8
20°-30°	741.4	6.6
30°-40°	1013.6	9.0
40°-50°	1535.8	13.6
50°-60°	2387.5	21.1
60°-70°	2906.7	25.7
70°-80°	1770.6	15.6
80°-90°	202.2	1.8
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°	11316.7	100.0
0°-180°	11316.7	100.0

**Coefficient of Utilization**



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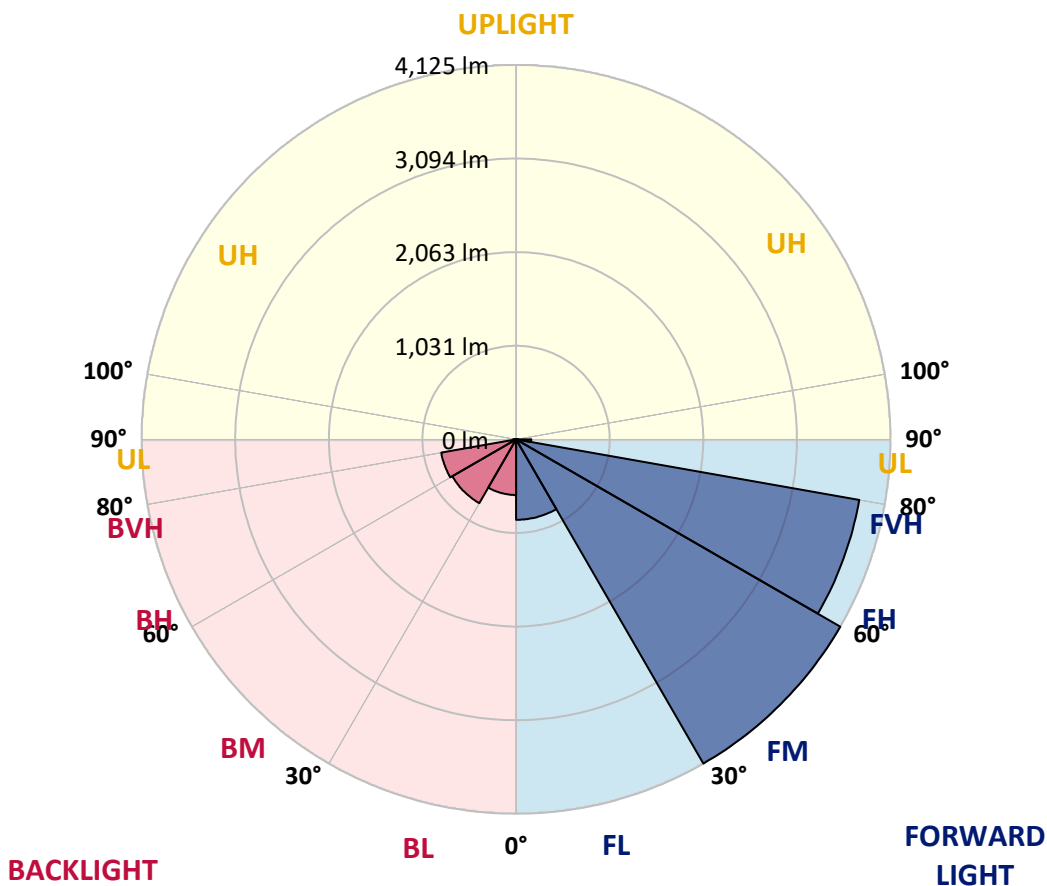
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.7	7.8			
FM (30°-60°)	4125.4	36.5			
FH (60°-80°)	3840.0	33.9			G2/5000
FVH (80°-90°)	168.2	1.5			G2/225
BL (0°-30°)	613.5	5.4	B2/1000		
BM (30°-60°)	811.5	7.2	B1/1000		
BH (60°-80°)	837.3	7.4	B2/1000		G2/1000
BVH (80°-90°)	34.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2342.2	2350.4	2345.5	2376.8	2378.5	2418.1	2440.4	2459.4	2461.0	2485.8	2502.3
5°	2182.0	2187.0	2187.0	2216.7	2236.5	2289.3	2340.5	2395.0	2399.1	2458.6	2504.0
7.5°	2052.4	2057.3	2054.0	2093.7	2119.3	2177.9	2243.1	2326.5	2334.7	2430.5	2509.8
10°	1950.8	1949.2	1957.4	1993.8	2026.8	2097.0	2169.6	2264.6	2276.9	2398.3	2516.4
12.5°	1881.5	1883.1	1888.1	1926.1	1961.6	2030.9	2106.0	2209.2	2222.5	2361.1	2513.1
15°	1848.5	1845.2	1849.3	1884.0	1917.8	1978.9	2056.5	2163.0	2176.2	2328.1	2513.9
17.5°	1841.0	1838.6	1837.7	1862.5	1888.1	1945.1	2019.4	2127.5	2141.5	2306.7	2518.8
20°	1864.2	1860.8	1851.8	1862.5	1873.2	1921.1	1992.9	2101.9	2117.6	2292.6	2528.7
22.5°	1927.7	1921.9	1907.9	1894.7	1880.7	1909.6	1976.4	2082.9	2098.6	2283.5	2538.6
25°	2024.3	2019.4	2004.5	1974.8	1923.6	1918.6	1973.1	2074.7	2090.4	2276.9	2542.8
27.5°	2157.2	2149.8	2134.9	2092.0	2008.6	1952.5	1985.5	2073.8	2088.7	2269.5	2538.6
30°	2314.9	2310.0	2301.7	2249.7	2138.2	2024.3	2013.6	2080.5	2092.0	2265.4	2530.4
32.5°	2475.1	2470.1	2476.7	2452.0	2314.9	2143.2	2074.7	2098.6	2106.9	2264.6	2523.0
35°	2616.3	2622.0	2669.9	2674.0	2539.5	2304.2	2171.3	2140.7	2142.4	2281.1	2526.3
37.5°	2764.0	2786.3	2849.1	2902.7	2790.4	2517.2	2314.9	2220.0	2218.3	2323.2	2546.9
40°	2959.7	2969.6	3049.7	3150.4	3080.2	2809.4	2518.8	2349.6	2338.0	2409.0	2602.2
42.5°	3150.4	3174.3	3302.3	3417.9	3394.8	3138.8	2775.6	2543.6	2523.0	2560.9	2716.1
45°	3393.1	3416.2	3559.9	3708.5	3750.6	3511.2	3104.2	2819.3	2798.7	2789.6	2925.0
47.5°	3635.8	3659.8	3788.6	4003.2	4151.0	3976.8	3531.8	3183.4	3149.6	3114.1	3240.4
50°	3799.3	3827.4	3950.4	4208.0	4554.7	4558.0	4038.7	3660.6	3617.7	3561.5	3684.5
52.5°	3793.5	3811.7	3928.9	4226.1	4845.3	5225.9	4717.3	4268.2	4233.6	4111.4	4218.7
55°	3495.5	3522.7	3640.8	4012.3	4876.7	5859.1	5714.6	4984.8	4922.9	4704.1	4822.2
57.5°	2896.9	2920.1	3038.9	3497.1	4598.5	6183.6	6981.1	5897.9	5812.9	5349.7	5486.0
60°	2187.0	2158.9	2215.0	2616.3	3933.0	6191.8	8098.9	7136.3	6994.3	6039.9	6153.8
62.5°	1641.2	1613.2	1625.6	1738.7	2666.6	5691.5	8736.2	8830.4	8595.9	6819.3	6797.0
65°	1297.0	1281.3	1316.8	1394.4	1554.6	4334.3	8741.2	10662.3	10514.5	7722.4	7456.6
67.5°	1056.7	1046.8	1083.2	1226.8	1260.7	2328.9	7838.0	11517.6	11575.4	8711.5	8068.4
70°	851.2	836.3	893.3	1082.3	1172.3	1409.3	5614.7	11081.7	11175.0	9300.9	7895.8
72.5°	587.8	588.6	617.5	876.8	1131.9	1216.9	3176.0	9227.5	9429.7	8766.8	6941.4
75°	396.3	399.6	407.8	578.7	1042.7	1180.6	1692.4	6986.0	7128.8	7246.1	5737.8
77.5°	239.4	241.1	260.1	350.0	719.1	1102.1	1146.7	5064.1	5176.4	4776.8	3556.6
80°	138.7	144.5	161.8	234.5	485.4	828.1	887.5	3105.0	3232.1	2123.4	1130.2
82.5°	61.1	65.2	88.3	136.2	283.2	704.2	692.7	1226.8	1208.6	591.9	392.1
85°	10.7	13.2	19.0	42.9	104.0	371.5	537.4	541.6	509.4	224.6	162.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	80.9	145.3	144.5	63.6	56.1
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°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2513.1	2490.8	2510.6	2513.1	2508.9	2505.6	2480.9	2459.4	2456.9	2433.8	2433.8
5°	2522.1	2501.5	2511.4	2492.4	2462.7	2432.1	2379.3	2343.0	2326.5	2296.8	2296.8
7.5°	2534.5	2513.1	2501.5	2454.4	2385.1	2318.2	2233.2	2162.2	2133.3	2091.2	2089.5
10°	2546.1	2518.8	2479.2	2387.6	2276.9	2170.4	2046.6	1945.9	1877.4	1827.0	1827.0
12.5°	2545.3	2509.8	2431.3	2295.9	2143.2	1988.8	1823.7	1671.8	1581.0	1502.5	1497.6
15°	2543.6	2494.9	2370.2	2189.4	1987.2	1773.3	1548.8	1350.6	1216.1	1139.3	1132.7
17.5°	2541.9	2475.9	2301.7	2068.1	1797.3	1505.9	1209.5	994.8	882.5	835.5	837.1
20°	2541.9	2454.4	2228.2	1928.5	1578.5	1185.5	887.5	731.5	703.4	705.9	708.3
22.5°	2534.5	2428.0	2146.5	1776.6	1335.0	871.8	654.7	601.8	616.7	639.8	643.1
25°	2517.2	2384.3	2051.6	1608.2	1045.2	634.9	534.1	524.2	551.5	580.4	588.6
27.5°	2489.9	2333.9	1945.1	1410.9	769.4	510.2	469.8	468.9	490.4	511.9	519.3
30°	2461.0	2277.8	1832.8	1191.3	557.3	444.2	428.5	428.5	439.2	452.4	450.8
32.5°	2427.2	2220.8	1712.2	962.6	454.1	407.0	402.1	399.6	401.2	406.2	406.2
35°	2398.3	2170.4	1588.4	720.7	407.0	386.4	381.4	375.6	373.2	369.9	371.5
37.5°	2387.6	2130.8	1460.4	543.2	383.9	371.5	363.3	355.0	349.2	347.6	346.7
40°	2404.9	2114.3	1332.5	447.5	367.4	355.8	346.7	336.0	331.1	331.1	331.1
42.5°	2472.6	2126.7	1202.0	404.5	355.8	342.6	329.4	319.5	317.8	319.5	320.3
45°	2596.4	2174.6	1066.6	383.1	345.9	329.4	313.7	306.3	306.3	307.9	307.9
47.5°	2817.7	2300.1	932.9	369.9	336.0	318.7	302.2	294.7	293.9	295.6	295.6
50°	3200.8	2526.3	812.4	360.8	328.6	310.4	293.9	284.0	281.5	280.7	280.7
52.5°	3683.7	2918.4	735.6	354.2	319.5	301.3	284.8	271.6	266.7	264.2	264.2
55°	4267.4	3441.0	735.6	349.2	307.9	290.6	271.6	258.4	251.0	247.7	247.7
57.5°	4928.7	4049.4	862.7	345.1	298.9	278.2	257.6	244.4	236.1	231.2	231.2
60°	5601.5	4692.6	1177.3	339.3	290.6	262.5	241.9	229.5	218.8	213.0	212.2
62.5°	6299.1	5400.9	1591.7	342.6	284.8	247.7	225.4	211.3	202.3	196.5	195.7
65°	6938.1	6075.4	1954.1	368.2	285.6	234.5	206.4	194.0	186.6	179.1	178.3
67.5°	7480.5	6447.7	1699.9	420.2	303.0	218.8	187.4	175.0	168.4	163.5	162.6
70°	7100.8	5879.8	964.3	452.4	326.9	202.3	165.9	157.7	151.1	147.8	147.0
72.5°	6072.1	4978.2	644.8	399.6	298.0	180.8	146.1	139.5	134.6	130.4	129.6
75°	4918.8	3947.9	492.9	327.8	232.0	147.0	125.5	120.5	115.6	111.5	110.6
77.5°	2910.2	2281.1	363.3	259.2	163.5	114.8	104.0	99.9	94.9	91.6	90.8
80°	928.8	792.6	230.3	178.3	108.2	88.3	80.1	76.8	71.8	67.7	66.9
82.5°	354.2	306.3	122.2	90.8	71.8	60.3	53.7	50.4	47.1	42.9	42.1
85°	156.9	147.0	67.7	48.7	38.8	29.7	26.4	24.8	20.6	17.3	16.5
87.5°	55.3	55.3	28.9	14.0	8.3	4.1	2.5	0.8	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)