

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: P639028

Luminaire Tested: GWS-SA5B-722-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

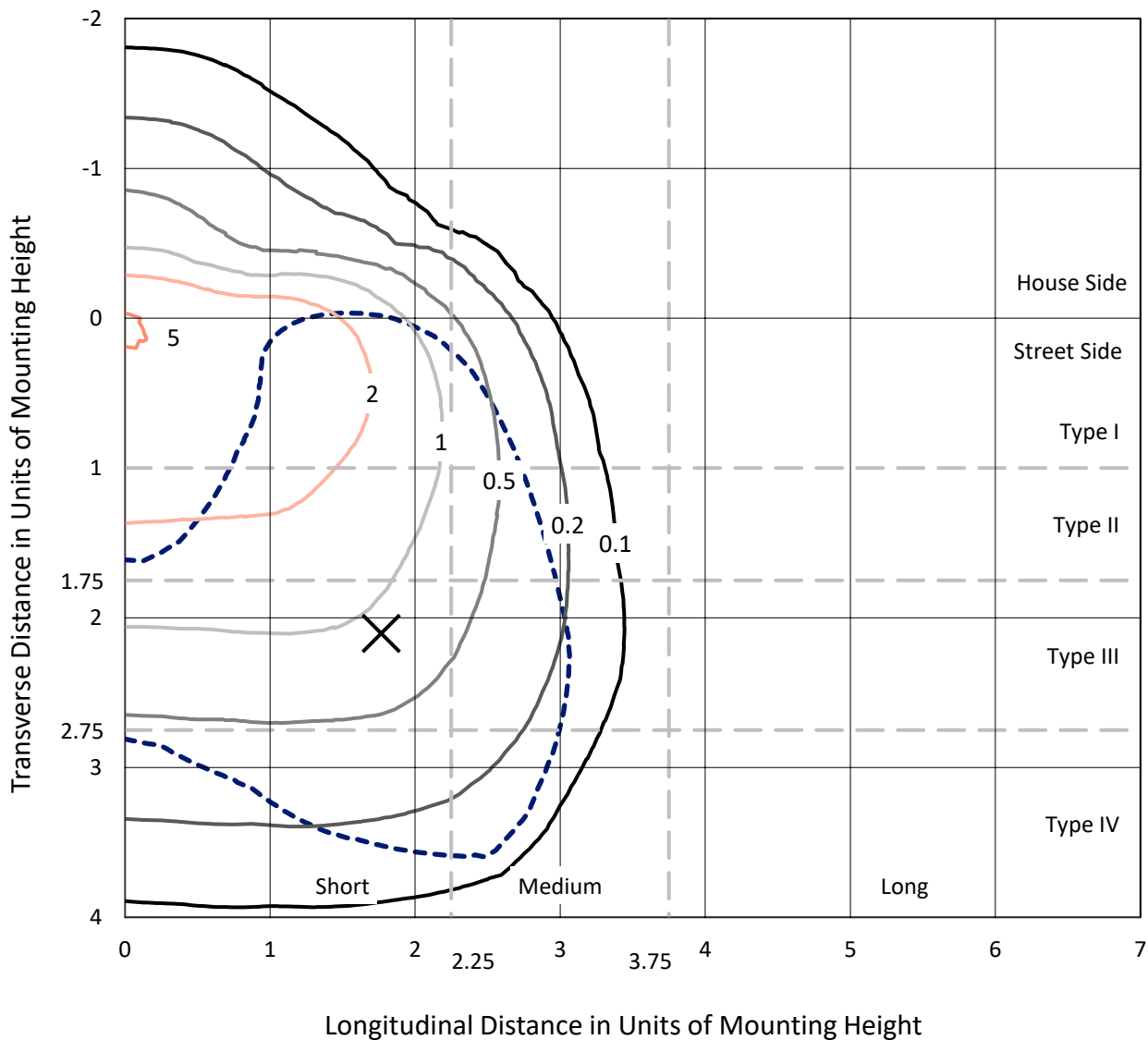
Lumens per Lamp: N/A  
Luminaire Lumens: 12560.8 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P639028  
 CATALOG NUMBER: GWS-SA5B-722-U-SL4-W

### Iso-Footcandle Lines of Horizontal Illumination

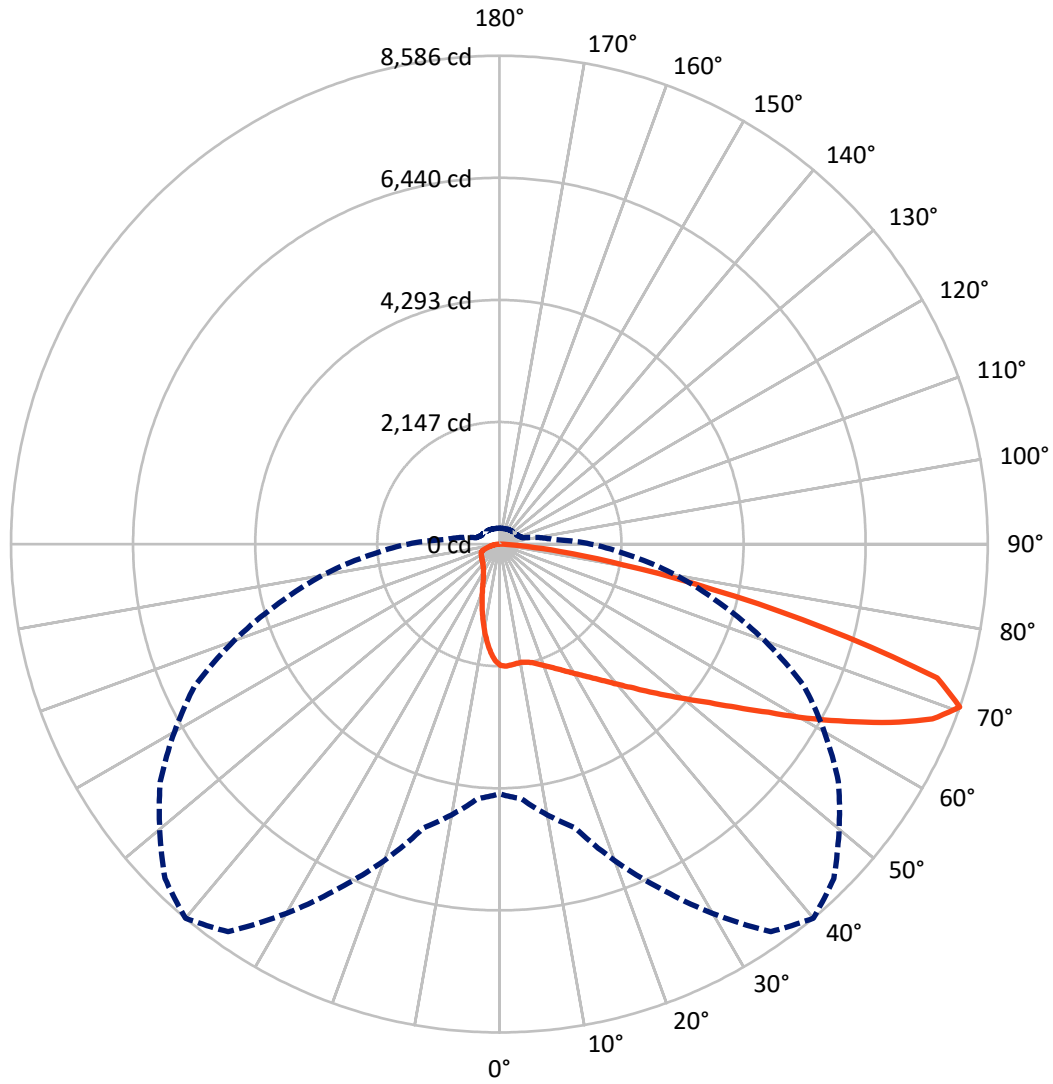
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P639028  
CATALOG NUMBER: GWS-SA5B-722-U-SL4-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P639028

CATALOG NUMBER: GWS-SA5B-722-U-SL4-W

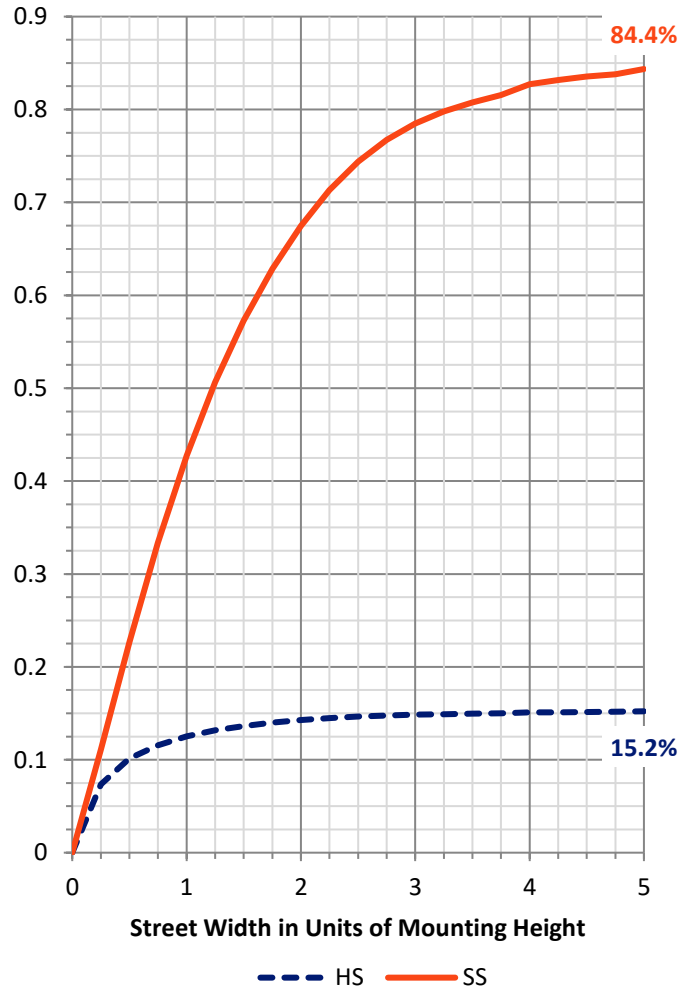
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1934.7	0.0	1934.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	10626.1	0.0	10626.1
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	12560.8	0.0	12560.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.4	1.5
10°-20°	491.2	3.9
20°-30°	771.2	6.1
30°-40°	1159.5	9.2
40°-50°	1789.8	14.2
50°-60°	2658.0	21.2
60°-70°	3350.3	26.7
70°-80°	1937.4	15.4
80°-90°	215.0	1.7
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°	12560.8	100.0
0°-180°	12560.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639028

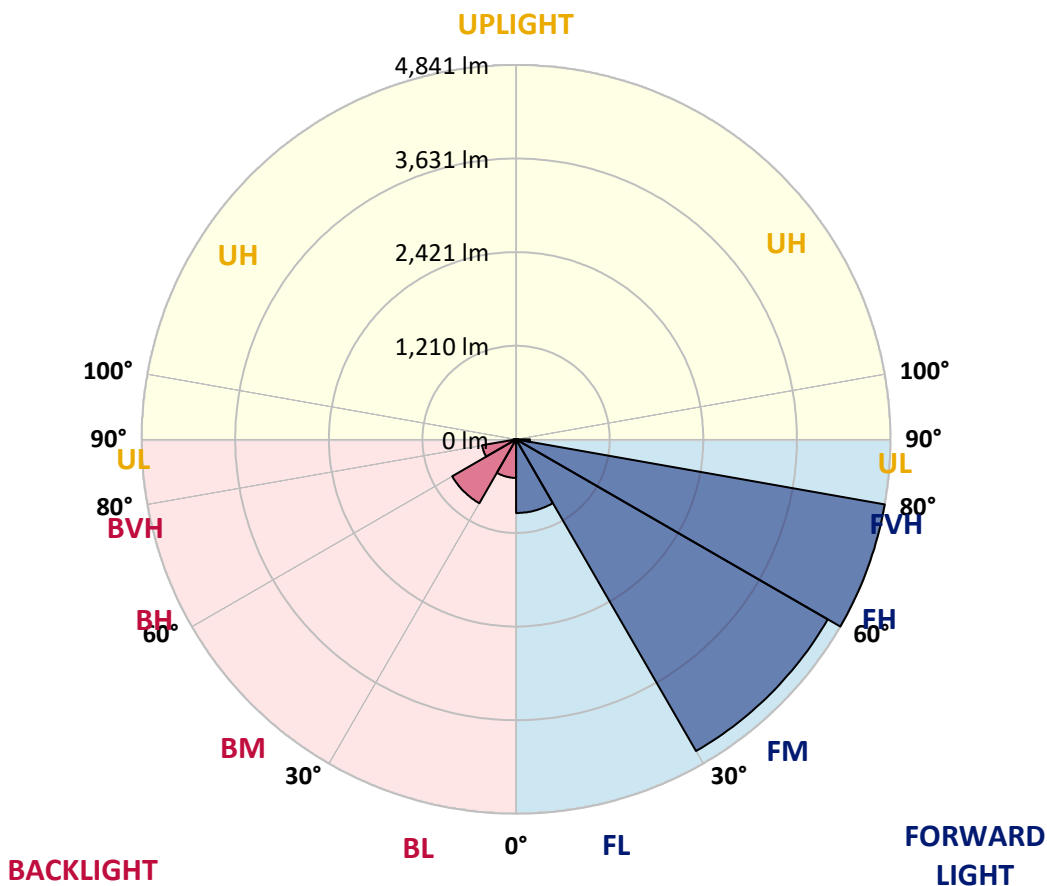
CATALOG NUMBER: GWS-SA5B-722-U-SL4-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.2	7.6			
FM (30°-60°)	4653.6	37.0			
FH (60°-80°)	4841.2	38.5			G2/5000
FVH (80°-90°)	179.1	1.4			G2/225
BL (0°-30°)	498.6	4.0	B1/500		
BM (30°-60°)	953.6	7.6	B1/1000		
BH (60°-80°)	446.5	3.6	B1/500		G1/500
BVH (80°-90°)	35.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P639028  
 CATALOG NUMBER: GWS-SA5B-722-U-SL4-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2146.1	2149.8	2152.7	2156.4	2154.5	2148.9	2153.6	2153.6	2143.3	2132.0	2121.7
5°	2148.9	2153.6	2152.7	2151.7	2144.2	2134.8	2134.8	2129.2	2111.4	2093.6	2076.7
7.5°	2143.3	2142.3	2141.4	2138.6	2130.2	2119.8	2118.0	2106.7	2083.3	2058.9	2034.5
10°	2118.0	2117.0	2119.8	2126.4	2124.5	2115.2	2115.2	2104.8	2077.7	2047.6	2015.8
12.5°	2097.3	2097.3	2108.6	2126.4	2133.0	2129.2	2130.2	2122.7	2091.7	2056.1	2018.6
15°	2100.2	2101.1	2125.5	2154.5	2166.7	2163.9	2164.8	2156.4	2121.7	2086.1	2035.5
17.5°	2118.9	2123.6	2165.8	2206.1	2222.0	2218.3	2211.7	2197.7	2158.3	2118.0	2056.1
20°	2158.3	2165.8	2220.2	2270.8	2289.5	2281.1	2269.9	2241.7	2198.6	2154.5	2078.6
22.5°	2236.1	2240.8	2300.8	2350.5	2365.5	2355.2	2332.7	2292.4	2242.7	2196.7	2105.8
25°	2345.8	2351.4	2408.6	2454.6	2450.8	2438.6	2407.7	2358.0	2298.9	2250.2	2145.2
27.5°	2476.1	2485.5	2541.7	2578.3	2553.9	2536.1	2501.4	2441.4	2374.9	2330.8	2205.2
30°	2618.6	2622.4	2670.2	2706.8	2669.3	2644.9	2602.7	2538.0	2478.0	2445.2	2295.2
32.5°	2756.5	2760.2	2801.5	2822.1	2782.7	2764.9	2728.3	2659.9	2617.7	2599.9	2429.2
35°	2901.8	2900.8	2934.6	2952.4	2912.1	2904.6	2867.1	2814.6	2807.1	2830.5	2625.2
37.5°	3047.1	3038.7	3056.5	3079.9	3057.4	3064.9	3040.5	3022.7	3051.8	3112.7	2885.8
40°	3163.4	3163.4	3182.1	3211.2	3218.7	3251.5	3237.4	3260.9	3354.6	3499.9	3208.4
42.5°	3266.5	3267.4	3306.8	3351.8	3406.2	3456.8	3468.1	3529.0	3723.1	3950.9	3613.4
45°	3374.3	3375.2	3428.7	3494.3	3609.6	3706.2	3728.7	3865.6	4143.1	4420.6	4053.1
47.5°	3499.0	3488.7	3562.8	3672.5	3836.5	3975.3	4033.4	4227.5	4578.1	4919.4	4467.5
50°	3639.6	3618.1	3700.6	3890.0	4092.5	4282.8	4380.3	4602.5	5045.1	5379.8	4857.5
52.5°	3798.1	3785.9	3872.2	4102.8	4412.2	4631.6	4763.8	5055.4	5498.8	5838.2	5166.9
55°	3995.0	3965.9	4090.6	4384.1	4787.2	5066.6	5223.2	5503.5	5994.8	6254.5	5403.2
57.5°	4210.6	4178.7	4345.6	4735.7	5274.8	5581.3	5777.3	6007.9	6461.7	6573.3	5542.0
60°	4443.1	4432.8	4630.6	5148.2	5856.1	6212.3	6353.9	6563.0	6867.7	6758.0	5507.3
62.5°	4656.0	4652.2	4940.0	5595.4	6472.0	6863.9	6976.4	7031.8	7160.2	6745.8	5231.6
65°	4880.0	4911.9	5301.0	6113.9	7178.0	7562.4	7609.3	7468.7	7258.7	6426.1	4667.2
67.5°	4908.2	4970.0	5527.9	6599.5	7847.4	8210.3	8172.8	7634.6	6968.0	5536.3	3658.4
70°	4389.7	4497.5	5166.0	6673.6	8319.0	8586.3	8315.3	7277.4	5913.2	4010.9	2300.8
72.5°	3667.8	3760.6	4351.3	5691.0	7710.6	8050.9	7684.3	6159.8	4178.7	2300.8	1172.0
75°	2854.9	2962.7	3507.4	4523.8	5772.6	5908.6	5724.8	4295.9	2297.0	948.8	532.5
77.5°	1742.0	1819.8	2243.6	3064.9	4039.0	3835.6	3250.5	2408.6	1007.9	454.7	329.1
80°	770.7	818.5	1105.4	1646.4	2333.6	2206.1	1739.2	1028.5	551.3	288.8	229.7
82.5°	413.5	444.4	544.7	651.6	1024.8	1071.6	869.1	592.5	296.3	165.0	131.3
85°	181.9	199.7	247.5	236.3	336.6	331.0	333.8	406.9	141.6	75.9	85.3
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	10.3	54.4	14.1	22.5	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639028  
 CATALOG NUMBER: GWS-SA5B-722-U-SL4-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2110.5	2093.6	2088.9	2083.3	2073.0	2055.1	2042.0	2027.0	2020.5	2013.0	2013.9
5°	2058.0	2037.3	2017.6	1992.3	1960.5	1924.8	1900.5	1872.3	1857.3	1843.3	1847.0
7.5°	2013.0	1981.1	1940.8	1887.3	1830.1	1766.4	1714.8	1674.5	1647.3	1628.6	1637.9
10°	1984.8	1947.3	1877.0	1789.8	1693.2	1595.7	1521.7	1452.3	1409.2	1375.4	1373.5
12.5°	1979.2	1930.5	1828.3	1701.7	1562.0	1431.7	1322.9	1229.2	1172.0	1129.8	1145.7
15°	1984.8	1923.0	1786.1	1620.1	1443.9	1267.6	1132.6	1024.8	956.3	917.9	915.1
17.5°	1991.4	1915.5	1738.3	1532.0	1320.1	1118.5	961.9	847.6	777.2	738.8	739.7
20°	1997.0	1904.2	1682.0	1435.4	1194.5	979.8	817.6	708.8	646.0	617.9	622.5
22.5°	2006.4	1893.0	1622.0	1332.3	1066.0	845.7	703.2	615.0	577.5	558.8	559.7
25°	2024.2	1886.4	1560.1	1219.8	939.4	738.8	624.4	565.4	541.9	530.7	529.7
27.5°	2060.8	1892.0	1495.4	1111.0	825.1	657.2	573.8	535.4	519.4	511.9	511.0
30°	2121.7	1914.5	1439.2	1000.4	726.6	593.5	539.1	515.7	506.3	499.7	498.8
32.5°	2214.5	1956.7	1378.2	897.3	646.9	546.6	511.9	499.7	493.2	489.4	489.4
35°	2355.2	2033.6	1318.2	807.2	585.0	510.0	490.3	485.7	480.0	478.2	480.0
37.5°	2557.7	2156.4	1263.8	728.5	541.0	481.9	466.9	468.8	464.1	466.9	469.7
40°	2814.6	2320.5	1217.9	663.8	508.2	461.3	446.3	452.8	450.0	452.8	457.5
42.5°	3139.9	2523.9	1183.2	613.2	484.7	444.4	430.3	436.9	435.0	438.8	443.5
45°	3502.8	2792.1	1167.3	577.5	467.8	432.2	417.2	421.9	420.0	422.8	427.5
47.5°	3850.6	3035.8	1181.3	556.9	453.8	421.9	406.0	407.8	406.9	406.0	408.8
50°	4150.6	3229.9	1221.7	550.4	444.4	411.6	396.6	397.5	394.7	389.1	391.0
52.5°	4395.3	3385.6	1246.0	550.4	439.7	400.3	386.3	387.2	381.6	374.1	375.0
55°	4556.6	3448.4	1226.3	549.4	437.8	391.0	376.0	376.9	371.3	361.9	362.8
57.5°	4602.5	3387.4	1143.8	539.1	436.0	383.5	365.7	367.5	363.8	353.5	353.5
60°	4474.1	3164.3	992.9	515.7	431.3	378.8	358.2	361.0	359.1	348.8	348.8
62.5°	4137.5	2767.7	812.9	480.0	418.2	373.2	351.6	357.2	361.9	356.3	355.3
65°	3507.4	2217.3	661.0	440.7	401.3	363.8	342.2	356.3	366.6	374.1	374.1
67.5°	2631.8	1587.3	539.1	399.4	376.0	345.0	330.0	343.1	350.7	355.3	358.2
70°	1604.2	933.8	424.7	351.6	339.4	316.9	305.6	292.5	282.2	280.3	281.3
72.5°	784.7	534.4	345.0	299.1	289.7	269.1	243.8	238.1	233.5	230.6	229.7
75°	432.2	372.2	285.0	248.5	231.6	206.3	200.6	191.3	189.4	185.6	186.6
77.5°	305.6	293.5	235.3	201.6	176.3	163.1	165.9	159.4	159.4	156.6	155.6
80°	229.7	230.6	181.0	147.2	130.3	125.6	128.4	128.4	126.6	125.6	124.7
82.5°	145.3	164.1	121.9	94.7	92.8	93.8	92.8	91.9	93.8	90.9	90.0
85°	100.3	118.1	74.1	56.3	56.3	55.3	57.2	56.3	58.1	55.3	55.3
87.5°	22.5	52.5	27.2	16.9	17.8	16.9	17.8	18.8	20.6	21.6	21.6
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)