

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: P641025

Luminaire Tested: GWS-SA5F-722-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31349.3 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
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

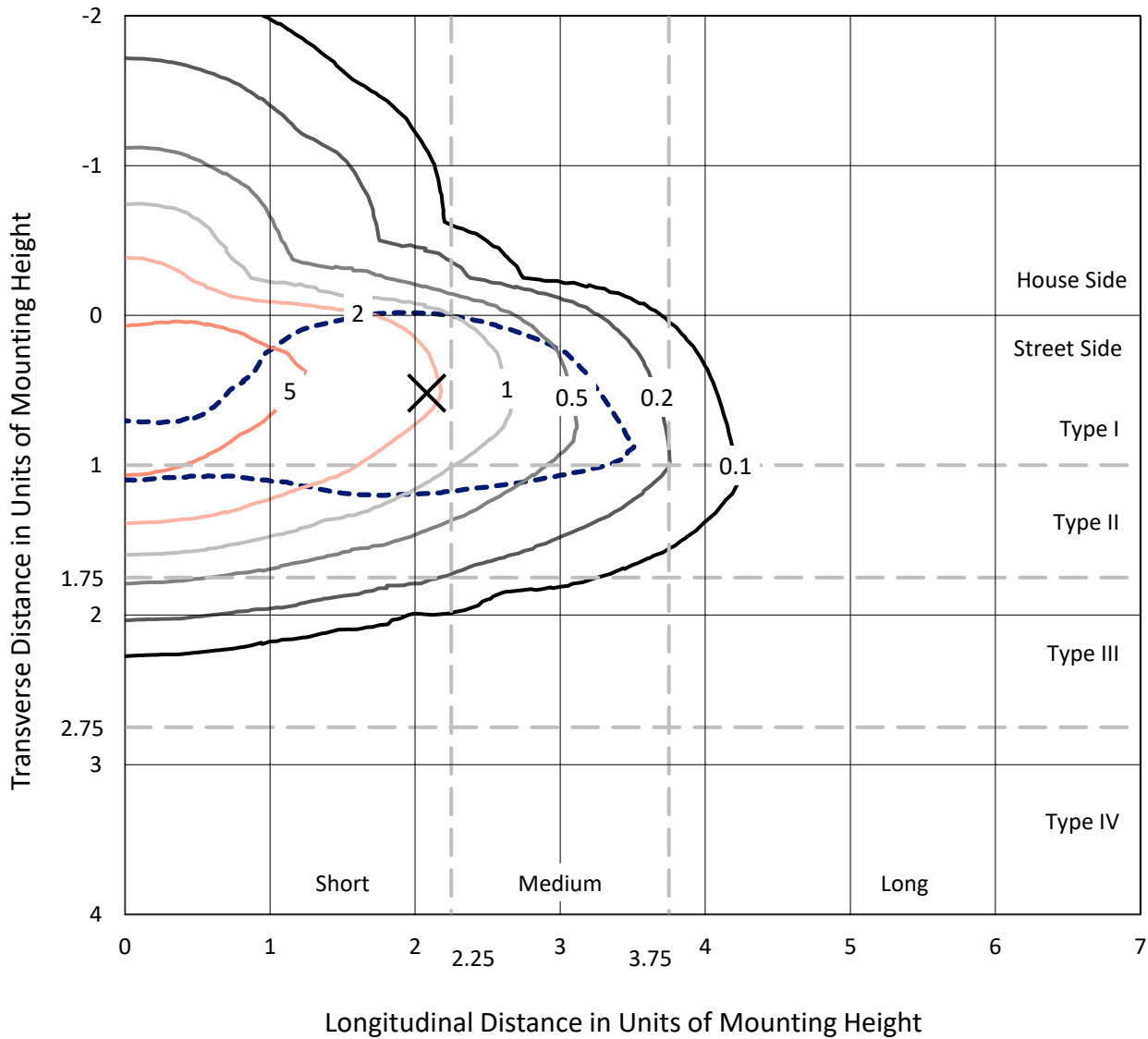


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### Iso-Footcandle Lines of Horizontal Illumination

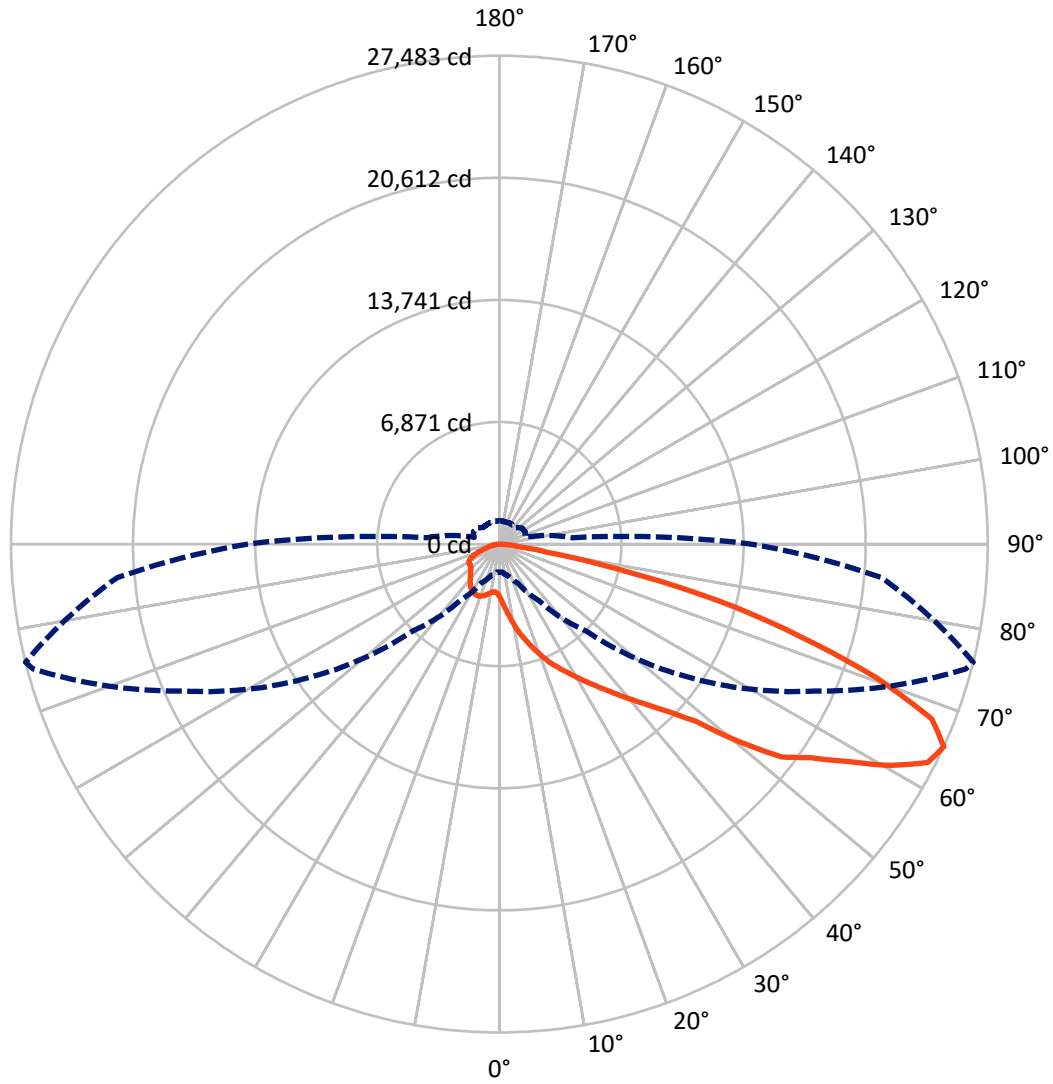
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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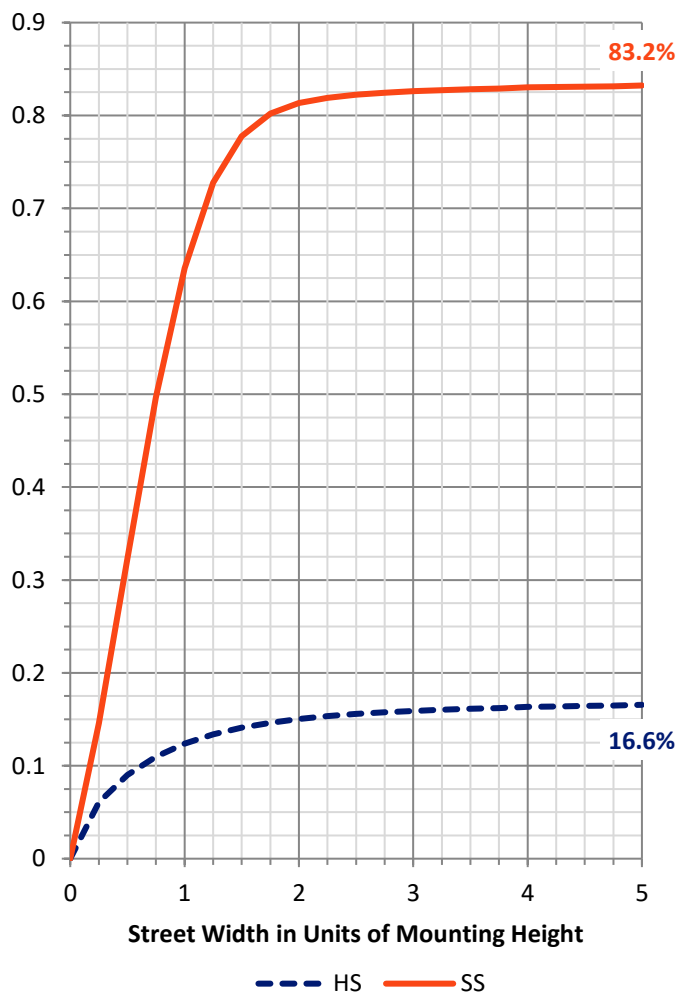
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5240.1	0.0	5240.1
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	26109.2	0.0	26109.2
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	31349.3	0.0	31349.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.7	1.1
10°-20°	1343.4	4.3
20°-30°	2618.0	8.4
30°-40°	4378.5	14.0
40°-50°	6269.2	20.0
50°-60°	7421.9	23.7
60°-70°	6171.3	19.7
70°-80°	2525.5	8.1
80°-90°	268.9	0.9
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°	31349.3	100.0
0°-180°	31349.3	100.0

**Coefficient of Utilization**



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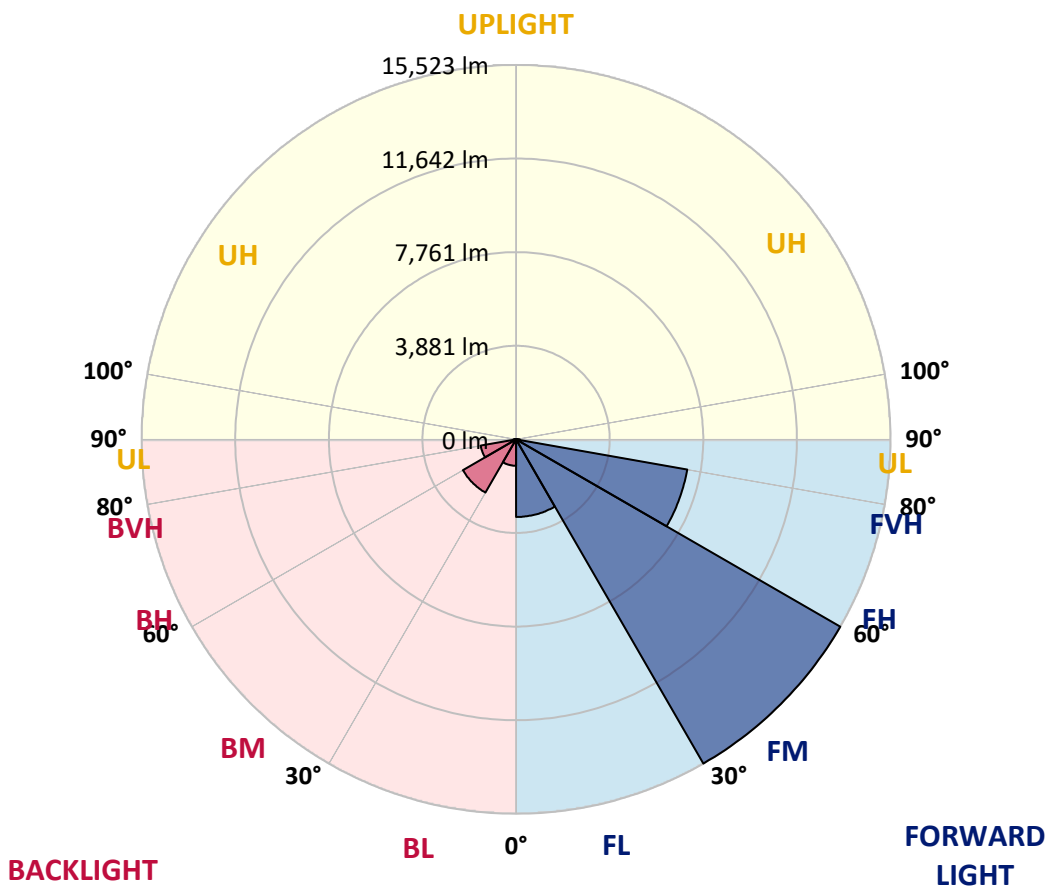
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3217.9	10.3			
FM (30°-60°)	15523.0	49.5			
FH (60°-80°)	7208.0	23.0			G3/7500
FVH (80°-90°)	160.4	0.5			G2/225
BL (0°-30°)	1096.2	3.5	B3/2500		
BM (30°-60°)	2546.6	8.1	B3/5000		
BH (60°-80°)	1488.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	108.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7
2.5°	4161.0	4176.4	4125.7	4108.1	3989.1	3828.2	3693.7	3491.0	3303.7	3275.0	3107.5
5°	5285.0	5218.9	5161.6	5124.1	4958.8	4775.9	4491.6	4110.3	3711.4	3662.9	3301.5
7.5°	5952.8	5941.7	5871.2	5849.2	5721.3	5538.4	5245.3	4771.5	4191.8	4112.5	3563.7
10°	6488.3	6481.7	6446.4	6466.3	6349.5	6170.9	5886.6	5397.4	4718.6	4639.2	3856.8
12.5°	6955.5	6966.6	6959.9	7032.7	6973.2	6834.3	6539.0	6001.2	5245.3	5159.3	4213.9
15°	7297.1	7306.0	7339.0	7497.7	7530.8	7502.1	7202.4	6594.1	5765.4	5642.0	4581.9
17.5°	7394.1	7411.7	7491.1	7746.7	7925.2	8044.3	7821.7	7198.0	6276.7	6142.3	4956.6
20°	7524.1	7544.0	7623.3	7890.0	8152.3	8423.3	8383.7	7810.6	6792.4	6682.2	5335.7
22.5°	8125.8	8110.4	8075.1	8202.9	8390.3	8727.5	8826.6	8399.1	7325.8	7220.0	5754.4
25°	9285.1	9256.4	9031.6	8914.8	8853.1	9058.1	9234.4	8934.6	7845.9	7687.2	6144.5
27.5°	10563.3	10547.9	10261.4	9983.7	9604.6	9516.5	9620.1	9401.9	8350.6	8189.7	6483.9
30°	11773.3	11727.0	11427.3	11079.0	10572.1	10193.1	10041.0	9860.3	8903.8	8736.3	6880.6
32.5°	12855.4	12795.9	12443.3	12057.6	11526.4	11079.0	10625.0	10347.3	9529.7	9335.8	7286.1
35°	13743.6	13684.1	13322.6	12912.7	12328.7	11998.1	11376.6	10876.3	10166.6	9970.5	7764.4
37.5°	14431.2	14376.1	13999.2	13595.9	13086.8	12824.5	12284.6	11471.3	10900.5	10695.6	8271.3
40°	14816.9	14777.2	14475.3	14155.7	13728.1	13501.1	13258.7	12222.9	11722.6	11517.6	8868.5
42.5°	14933.7	14907.2	14695.7	14530.4	14241.6	14069.7	14208.6	13106.6	12599.7	12421.2	9540.7
45°	14640.6	14640.6	14578.8	14662.6	14675.8	14673.6	15160.7	14105.0	13677.4	13481.3	10488.4
47.5°	13891.2	13939.7	14030.1	14442.2	14876.4	15240.0	16273.6	15436.2	15063.7	14902.8	11830.6
50°	12520.4	12652.6	12961.2	13765.6	14689.0	15614.7	17327.1	17404.3	17759.1	17474.8	13805.3
52.5°	10512.6	10492.8	11279.6	12425.6	13833.9	15630.1	17906.7	19140.9	20095.2	19899.1	15273.1
55°	8355.0	8322.0	9055.9	10636.1	12522.6	15039.5	18255.0	19936.5	21391.1	21214.8	16593.2
57.5°	6397.9	6356.1	7008.4	8434.4	10671.3	13785.4	18188.8	20884.2	23174.1	23083.7	18387.2
60°	4403.4	4352.7	4963.2	6210.6	8480.6	11868.0	17457.1	21371.3	25261.2	25292.0	20306.8
62.5°	2644.7	2616.0	3059.0	4026.5	6100.4	9492.2	15744.7	21076.0	26922.9	27061.8	21541.0
65°	1595.6	1575.8	1835.9	2402.3	3870.1	6926.9	13104.4	19566.3	27163.2	27482.7	21569.6
67.5°	1161.5	1163.7	1238.6	1463.4	2256.8	4473.9	9833.8	16859.9	25911.3	26241.9	20209.8
70°	1009.4	1013.8	1053.5	1104.2	1364.2	2560.9	6393.5	13309.4	22211.0	22466.6	16950.2
72.5°	897.0	897.0	923.4	949.9	1066.7	1560.4	3424.9	9302.7	17529.9	17598.2	12936.9
75°	789.0	782.4	795.6	808.8	925.6	1090.9	1666.2	6481.7	12948.0	12789.3	8361.6
77.5°	628.1	621.5	623.7	636.9	742.7	780.2	844.1	4048.6	7297.1	6887.2	3693.7
80°	447.4	443.0	467.2	500.3	548.8	478.2	528.9	1959.3	2893.7	2693.2	1432.5
82.5°	266.7	275.5	313.0	339.4	379.1	299.7	341.6	654.6	1024.8	998.4	581.8
85°	37.5	39.7	112.4	130.0	163.1	116.8	180.7	295.3	409.9	438.6	205.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.4	52.9	116.8	119.0	50.7
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°	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7
2.5°	3021.6	2918.0	2770.3	2646.9	2543.3	2459.6	2389.0	2336.1	2320.7	2298.7	2298.7
5°	3131.8	2944.4	2680.0	2492.6	2384.6	2320.7	2276.6	2254.6	2243.6	2230.4	2223.7
7.5°	3283.8	3021.6	2664.5	2475.0	2391.2	2351.6	2322.9	2309.7	2300.9	2287.7	2287.7
10°	3493.2	3136.2	2713.0	2536.7	2470.6	2430.9	2397.9	2375.8	2356.0	2336.1	2331.7
12.5°	3720.2	3286.0	2801.2	2620.4	2549.9	2501.4	2455.2	2422.1	2397.9	2373.6	2367.0
15°	3971.4	3440.3	2895.9	2702.0	2613.8	2547.7	2492.6	2441.9	2408.9	2373.6	2369.2
17.5°	4218.3	3596.8	2975.3	2757.1	2644.7	2563.1	2483.8	2417.7	2375.8	2336.1	2325.1
20°	4513.6	3753.3	3030.4	2772.5	2638.1	2530.1	2435.3	2351.6	2305.3	2259.0	2252.4
22.5°	4784.7	3898.7	3056.8	2750.5	2587.4	2459.6	2349.4	2259.0	2208.3	2162.0	2153.2
25°	5046.9	4026.5	3045.8	2697.6	2510.3	2362.6	2248.0	2157.6	2109.1	2060.7	2047.4
27.5°	5300.4	4112.5	3001.7	2616.0	2413.3	2254.6	2144.4	2062.9	2021.0	1979.1	1961.5
30°	5549.4	4191.8	2933.4	2510.3	2289.9	2142.2	2051.8	1994.5	1952.7	1908.6	1895.4
32.5°	5800.7	4249.1	2829.8	2386.8	2164.2	2043.0	1987.9	1946.0	1902.0	1857.9	1844.7
35°	6054.1	4273.4	2704.2	2245.8	2058.4	1979.1	1959.3	1910.8	1851.3	1798.4	1780.8
37.5°	6356.1	4295.4	2547.7	2106.9	1965.9	1948.3	1943.8	1871.1	1800.6	1727.9	1708.0
40°	6719.7	4324.1	2386.8	1981.3	1891.0	1937.2	1919.6	1820.4	1679.4	1608.9	1586.8
42.5°	7164.9	4377.0	2219.3	1866.7	1835.9	1895.4	1875.5	1697.0	1602.2	1562.6	1551.6
45°	7819.5	4570.9	2051.8	1776.3	1794.0	1835.9	1805.0	1624.3	1586.8	1560.4	1547.1
47.5°	8985.3	4868.4	1906.4	1708.0	1760.9	1783.0	1663.9	1604.4	1575.8	1540.5	1525.1
50°	10197.5	4998.5	1789.6	1666.2	1723.5	1734.5	1586.8	1578.0	1558.2	1520.7	1505.3
52.5°	11017.3	4980.8	1719.0	1650.7	1692.6	1650.7	1551.6	1549.3	1536.1	1492.0	1474.4
55°	11943.0	5011.7	1688.2	1655.1	1679.4	1509.7	1507.5	1514.1	1507.5	1459.0	1450.2
57.5°	13192.6	5106.5	1672.8	1670.6	1670.6	1441.4	1465.6	1474.4	1461.2	1439.2	1432.5
60°	14393.7	5113.1	1644.1	1688.2	1663.9	1399.5	1417.1	1425.9	1410.5	1406.1	1403.9
62.5°	14845.5	4795.7	1580.2	1675.0	1637.5	1353.2	1366.4	1370.8	1355.4	1366.4	1364.2
65°	14173.3	4121.3	1474.4	1611.1	1556.0	1311.3	1302.5	1313.5	1287.1	1315.7	1317.9
67.5°	12584.3	3275.0	1313.5	1489.8	1441.4	1265.0	1247.4	1247.4	1203.3	1247.4	1245.2
70°	10146.8	2314.1	1077.7	1295.9	1315.7	1209.9	1201.1	1150.4	1079.9	1146.0	1139.4
72.5°	7691.6	1661.7	848.5	1024.8	1132.8	1132.8	1135.0	1049.1	967.5	998.4	971.9
75°	4872.8	1170.3	678.8	784.6	888.2	994.0	1044.7	886.0	813.2	800.0	786.8
77.5°	2195.1	769.2	528.9	601.7	630.3	784.6	954.3	762.6	663.4	634.7	625.9
80°	919.0	478.2	376.9	425.4	387.9	659.0	841.9	592.9	487.1	447.4	418.7
82.5°	403.3	284.3	240.2	229.2	242.4	489.3	628.1	394.5	304.1	412.1	416.5
85°	169.7	149.9	123.4	112.4	99.2	187.3	295.3	154.3	189.5	108.0	88.2
87.5°	39.7	44.1	33.1	22.0	13.2	2.2	0.0	0.0	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)