

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: P640478

Luminaire Tested: GWS-SA5D-830-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-830-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

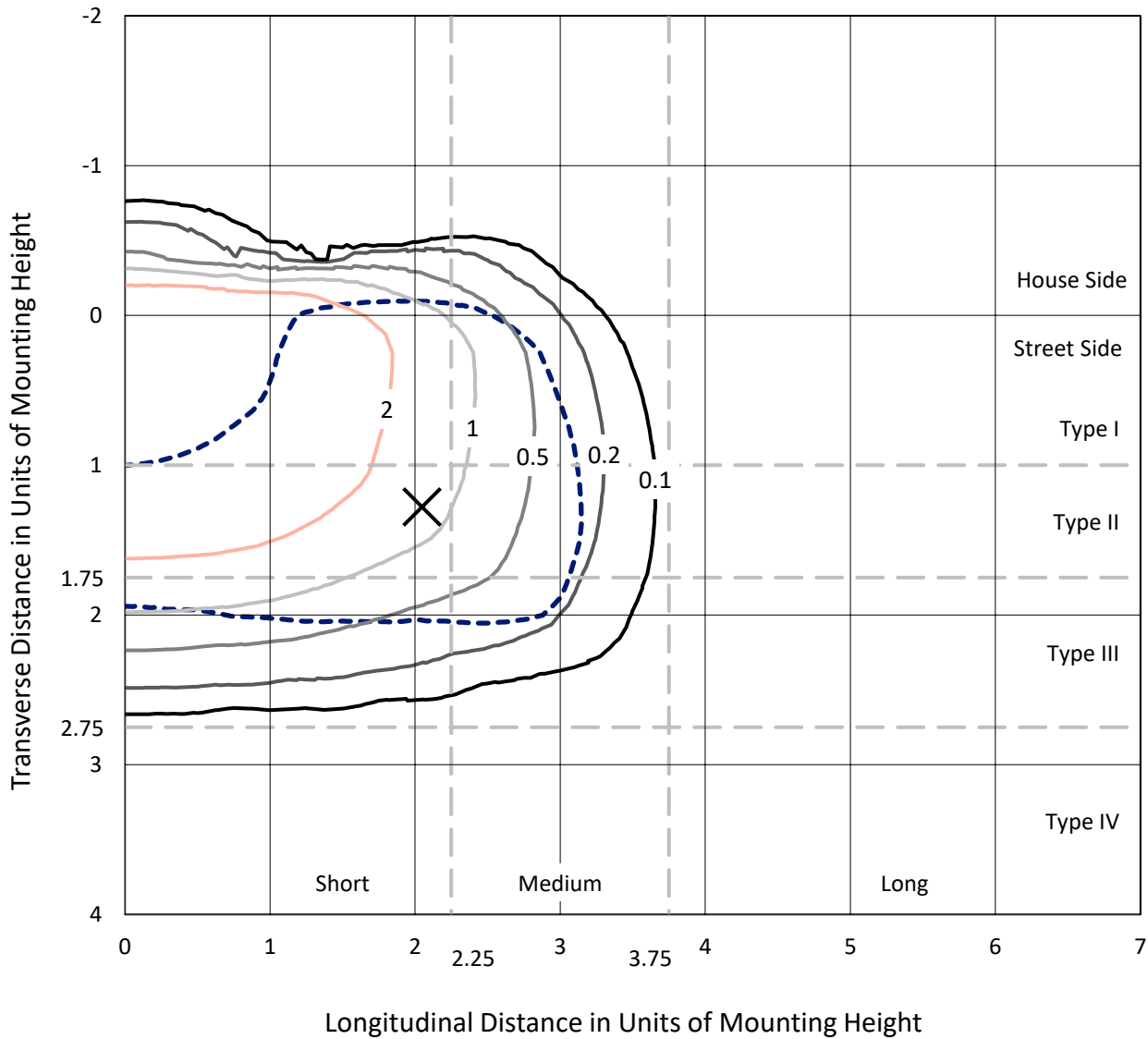
Lumens per Lamp: N/A  
Luminaire Lumens: 17519.8 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

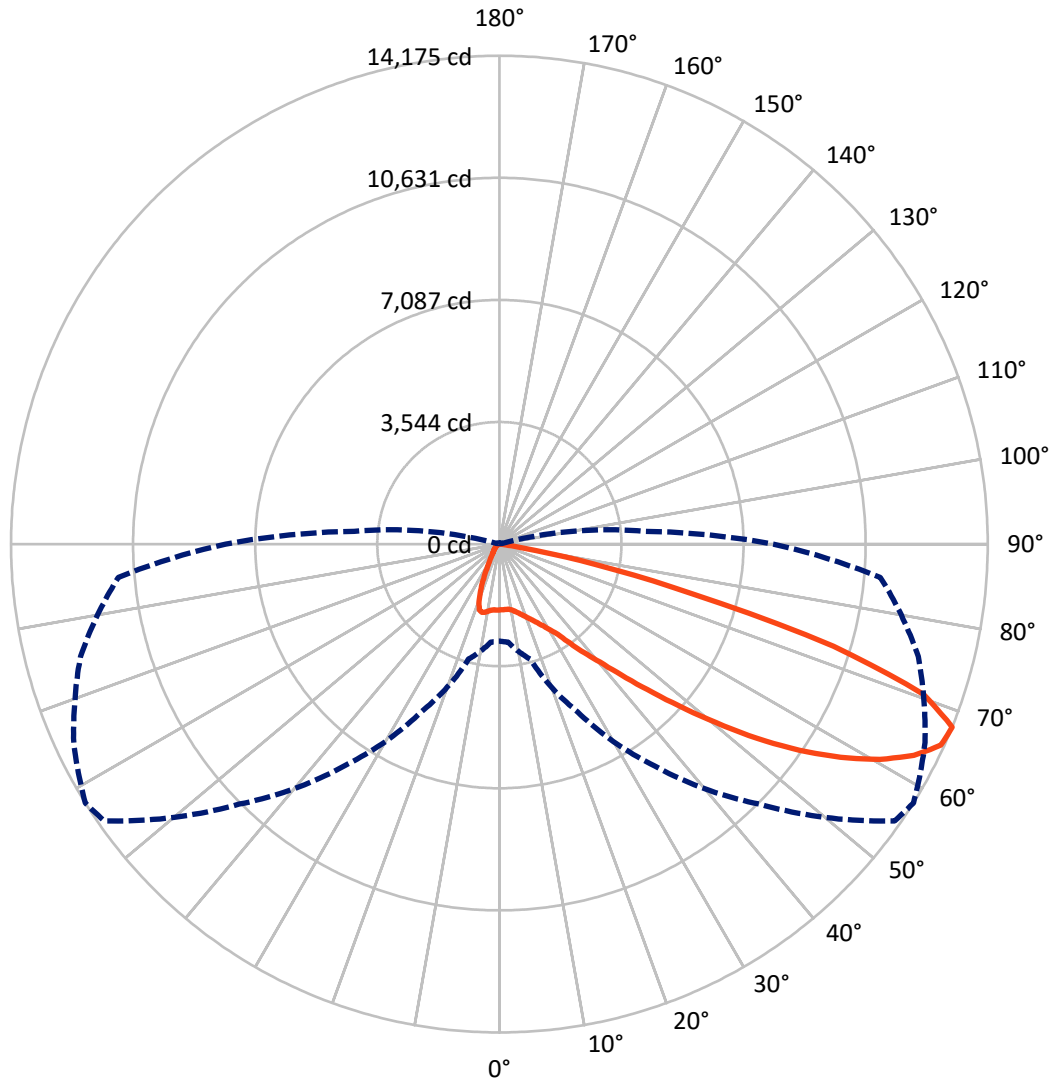
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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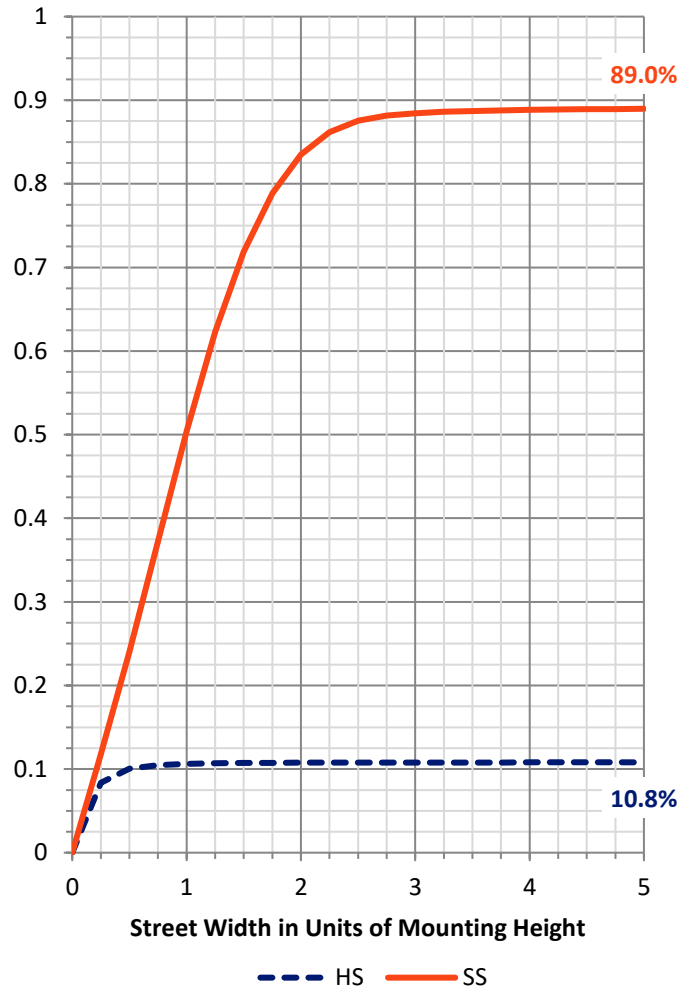
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1911.4	0.0	1911.4
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	15608.4	0.0	15608.4
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	17519.8	0.0	17519.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.3	1.0
10°-20°	503.5	2.9
20°-30°	878.9	5.0
30°-40°	1569.7	9.0
40°-50°	2869.1	16.4
50°-60°	4771.5	27.2
60°-70°	5182.7	29.6
70°-80°	1521.7	8.7
80°-90°	43.3	0.2
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°	17519.8	100.0
0°-180°	17519.8	100.0

**Coefficient of Utilization**



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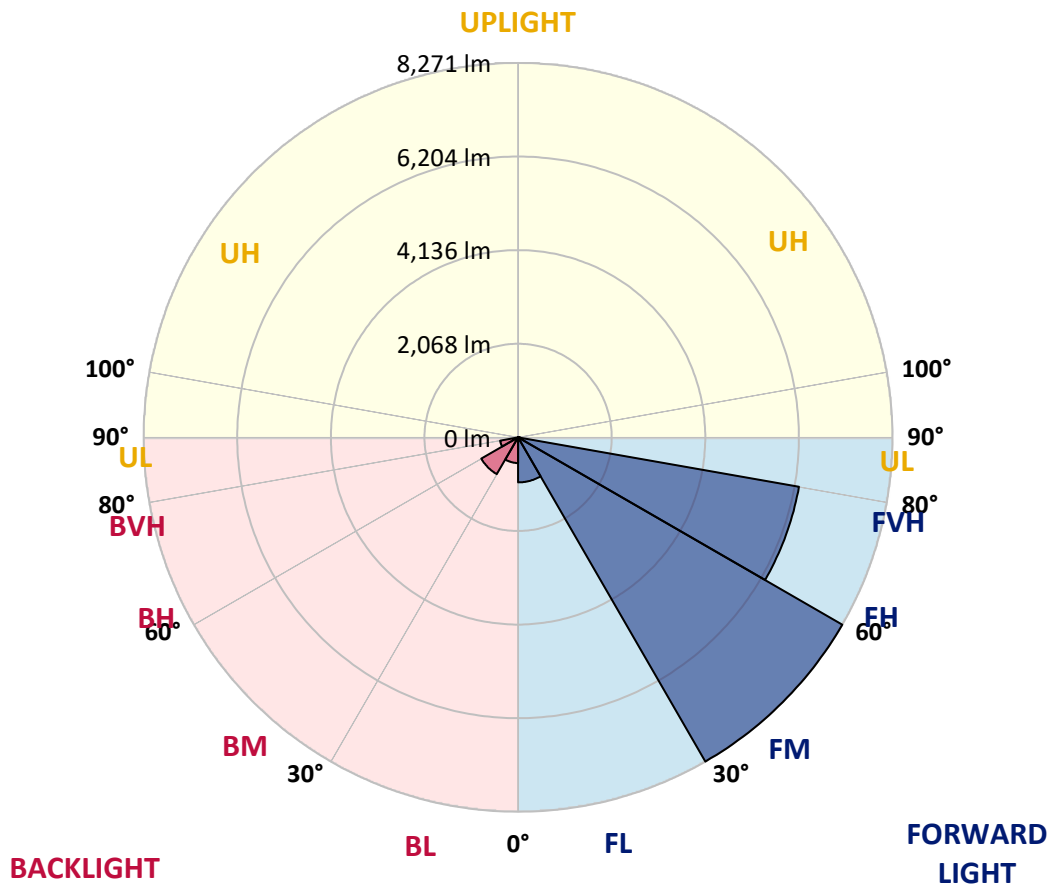
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.8	5.7			
FM (30°-60°)	8271.5	47.2			
FH (60°-80°)	6300.9	36.0			G3/7500
FVH (80°-90°)	41.2	0.2			G1/100
BL (0°-30°)	567.0	3.2	B2/1000		
BM (30°-60°)	938.8	5.4	B1/1000		
BH (60°-80°)	403.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1
2.5°	1873.2	1869.8	1869.8	1883.5	1885.2	1892.0	1907.4	1909.1	1917.7	1914.3	1902.3
5°	1775.7	1777.4	1787.7	1811.6	1832.2	1857.8	1895.4	1904.0	1922.8	1933.1	1926.2
7.5°	1685.0	1686.7	1702.1	1739.8	1779.1	1830.4	1892.0	1909.1	1946.8	1974.1	1975.9
10°	1650.8	1649.1	1664.5	1707.3	1758.6	1830.4	1919.4	1941.6	1998.1	2046.0	2054.5
12.5°	1661.1	1659.4	1674.8	1714.1	1770.6	1861.2	1967.3	1998.1	2069.9	2143.5	2158.9
15°	1702.1	1700.4	1710.7	1743.2	1804.8	1898.9	2028.9	2075.1	2165.7	2254.7	2278.6
17.5°	1825.3	1816.8	1806.5	1809.9	1845.8	1943.3	2107.6	2164.0	2276.9	2383.0	2403.5
20°	2044.3	2022.0	1994.7	1958.7	1941.6	2008.4	2198.2	2263.2	2400.1	2521.6	2525.0
22.5°	2374.4	2365.9	2302.6	2198.2	2124.7	2126.4	2304.3	2379.6	2547.2	2680.7	2661.8
25°	2834.6	2829.5	2732.0	2560.9	2369.3	2304.3	2439.4	2516.4	2721.7	2863.7	2803.8
27.5°	3406.0	3370.1	3255.5	3024.5	2738.8	2535.2	2610.5	2678.9	2906.5	3039.9	2927.0
30°	3903.8	3905.5	3797.7	3556.5	3234.9	2882.5	2819.2	2879.1	3075.8	3216.1	3079.2
32.5°	4382.8	4398.2	4280.2	4062.9	3710.5	3335.9	3118.6	3128.9	3293.1	3445.3	3279.4
35°	4827.6	4839.6	4757.4	4572.7	4244.2	3809.7	3536.0	3530.9	3619.8	3775.5	3558.2
37.5°	5325.4	5337.4	5257.0	5091.0	4783.1	4352.0	4009.9	4003.0	4038.9	4165.5	3917.5
40°	5855.7	5877.9	5789.0	5648.7	5354.5	4990.1	4560.7	4499.1	4463.2	4612.0	4382.8
42.5°	6392.9	6427.1	6396.3	6256.0	6004.5	5703.5	5275.8	5180.0	5103.0	5289.5	5046.5
45°	7060.0	7101.1	7087.4	6979.6	6784.6	6540.0	6136.3	6025.1	5989.1	6161.9	5872.8
47.5°	7701.5	7746.0	7795.6	7771.7	7633.1	7520.2	7072.0	7008.7	6998.5	7183.2	6735.0
50°	8178.8	8219.9	8409.8	8546.6	8640.7	8616.8	8228.4	8134.4	8119.0	8237.0	7645.1
52.5°	8521.0	8560.3	8822.1	9249.7	9595.3	9783.5	9391.7	9371.2	9287.4	9246.3	8497.0
55°	8786.1	8840.9	9116.3	9762.9	10459.2	10876.6	10632.0	10558.4	10342.9	10106.8	9287.4
57.5°	8839.2	8861.4	9249.7	10122.2	11129.8	11805.5	11805.5	11677.2	11261.5	10934.8	10200.9
60°	8363.6	8432.0	8957.2	10093.1	11417.2	12412.8	12778.9	12689.9	12128.8	11726.8	11080.2
62.5°	7308.1	7385.1	8024.9	9396.8	11129.8	12537.7	13516.2	13502.5	12869.6	12382.0	11808.9
65°	5604.2	5660.7	6218.4	7860.6	9915.2	12057.0	14043.1	14080.7	13454.6	12814.8	12060.4
67.5°	2815.8	2855.1	3457.3	5369.9	7858.9	10673.0	14007.2	14174.8	13632.5	12585.6	11100.7
70°	983.6	1023.0	1307.0	2304.3	4783.1	8149.7	12796.0	13069.7	12587.3	10743.2	8189.1
72.5°	337.0	355.8	542.3	855.3	1861.2	4831.0	9730.4	10142.7	9278.8	7212.3	4706.1
75°	191.6	203.6	290.8	463.6	780.1	1589.2	5520.4	5773.6	5409.2	3931.2	1936.5
77.5°	130.0	140.3	181.3	263.4	431.1	511.5	2251.3	2834.6	2472.0	1283.0	494.4
80°	77.0	83.8	111.2	155.7	220.7	198.4	482.4	641.5	826.3	383.2	148.8
82.5°	35.9	41.1	71.8	102.6	111.2	83.8	142.0	172.8	232.7	188.2	61.6
85°	0.0	0.0	23.9	42.8	41.1	23.9	39.3	42.8	63.3	94.1	23.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.1	10.3	18.8	10.3
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°	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1
2.5°	1916.0	1904.0	1917.7	1910.8	1917.7	1916.0	1902.3	1893.7	1893.7	1878.3	1873.2
5°	1939.9	1928.0	1931.4	1916.0	1912.6	1904.0	1886.9	1880.1	1880.1	1864.7	1859.5
7.5°	1993.0	1974.1	1970.7	1939.9	1926.2	1902.3	1871.5	1859.5	1857.8	1842.4	1837.3
10°	2076.8	2054.5	2039.1	1999.8	1960.5	1912.6	1847.5	1792.8	1762.0	1721.0	1717.5
12.5°	2179.4	2152.1	2128.1	2068.2	2003.2	1895.4	1703.9	1503.7	1380.5	1283.0	1289.9
15°	2294.0	2268.4	2230.7	2140.1	2006.6	1726.1	1325.8	1017.9	867.3	786.9	783.5
17.5°	2418.9	2381.3	2319.7	2196.5	1898.9	1318.9	862.2	609.0	530.3	502.9	496.1
20°	2535.2	2489.1	2412.1	2208.5	1587.5	893.0	538.9	472.2	458.5	449.9	449.9
22.5°	2658.4	2600.3	2485.6	2116.1	1180.4	571.4	458.5	443.1	432.8	420.8	419.1
25°	2783.3	2708.0	2552.4	1874.9	773.2	449.9	429.4	412.3	393.5	374.6	369.5
27.5°	2889.4	2791.9	2603.7	1515.7	496.1	405.4	391.7	362.7	337.0	316.5	313.1
30°	3016.0	2891.1	2625.9	1108.5	390.0	357.5	337.0	306.2	275.4	254.9	248.1
32.5°	3185.3	3048.5	2591.7	721.9	345.6	314.8	282.3	246.3	215.5	193.3	189.9
35°	3448.8	3286.2	2434.3	460.2	313.1	272.0	232.7	195.0	169.4	152.3	148.8
37.5°	3770.4	3619.8	2176.0	345.6	280.6	236.1	189.9	154.0	135.1	123.2	119.7
40°	4247.7	4037.2	1856.1	302.8	248.1	200.2	155.7	126.6	112.9	102.6	99.2
42.5°	4866.9	4529.9	1488.3	275.4	217.3	167.6	126.6	104.4	92.4	85.5	83.8
45°	5590.5	5010.6	1100.0	248.1	188.2	138.6	104.4	85.5	77.0	71.8	70.1
47.5°	6331.3	5431.5	759.5	219.0	160.8	114.6	87.2	73.6	66.7	59.9	58.2
50°	7121.6	5787.3	518.3	189.9	136.9	94.1	75.3	66.7	58.2	53.0	51.3
52.5°	7701.5	5919.0	361.0	164.2	116.3	80.4	66.7	59.9	53.0	46.2	44.5
55°	8237.0	5915.6	273.7	138.6	99.2	70.1	59.9	53.0	46.2	41.1	39.3
57.5°	8770.7	5869.4	215.5	118.0	85.5	63.3	53.0	46.2	42.8	35.9	34.2
60°	9116.3	5694.9	167.6	99.2	73.6	54.7	46.2	41.1	35.9	30.8	29.1
62.5°	9299.3	5452.0	128.3	78.7	59.9	47.9	41.1	35.9	30.8	25.7	23.9
65°	9051.3	5020.9	100.9	61.6	46.2	41.1	34.2	29.1	23.9	18.8	17.1
67.5°	7951.3	4234.0	78.7	49.6	35.9	30.8	29.1	23.9	17.1	13.7	12.0
70°	5619.6	2899.6	61.6	37.6	27.4	23.9	22.2	18.8	13.7	10.3	8.6
72.5°	3084.4	1462.6	44.5	27.4	20.5	18.8	17.1	15.4	12.0	8.6	8.6
75°	1187.2	402.0	32.5	18.8	13.7	13.7	12.0	12.0	10.3	6.8	6.8
77.5°	309.6	119.7	20.5	12.0	8.6	8.6	8.6	6.8	6.8	5.1	5.1
80°	99.2	39.3	12.0	8.6	6.8	5.1	5.1	3.4	5.1	3.4	3.4
82.5°	32.5	13.7	6.8	6.8	5.1	3.4	3.4	1.7	1.7	0.0	0.0
85°	12.0	6.8	5.1	3.4	3.4	3.4	1.7	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	3.4	3.4	3.4	1.7	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)