

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: P640030

Luminaire Tested: GWS-SA5D-722-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

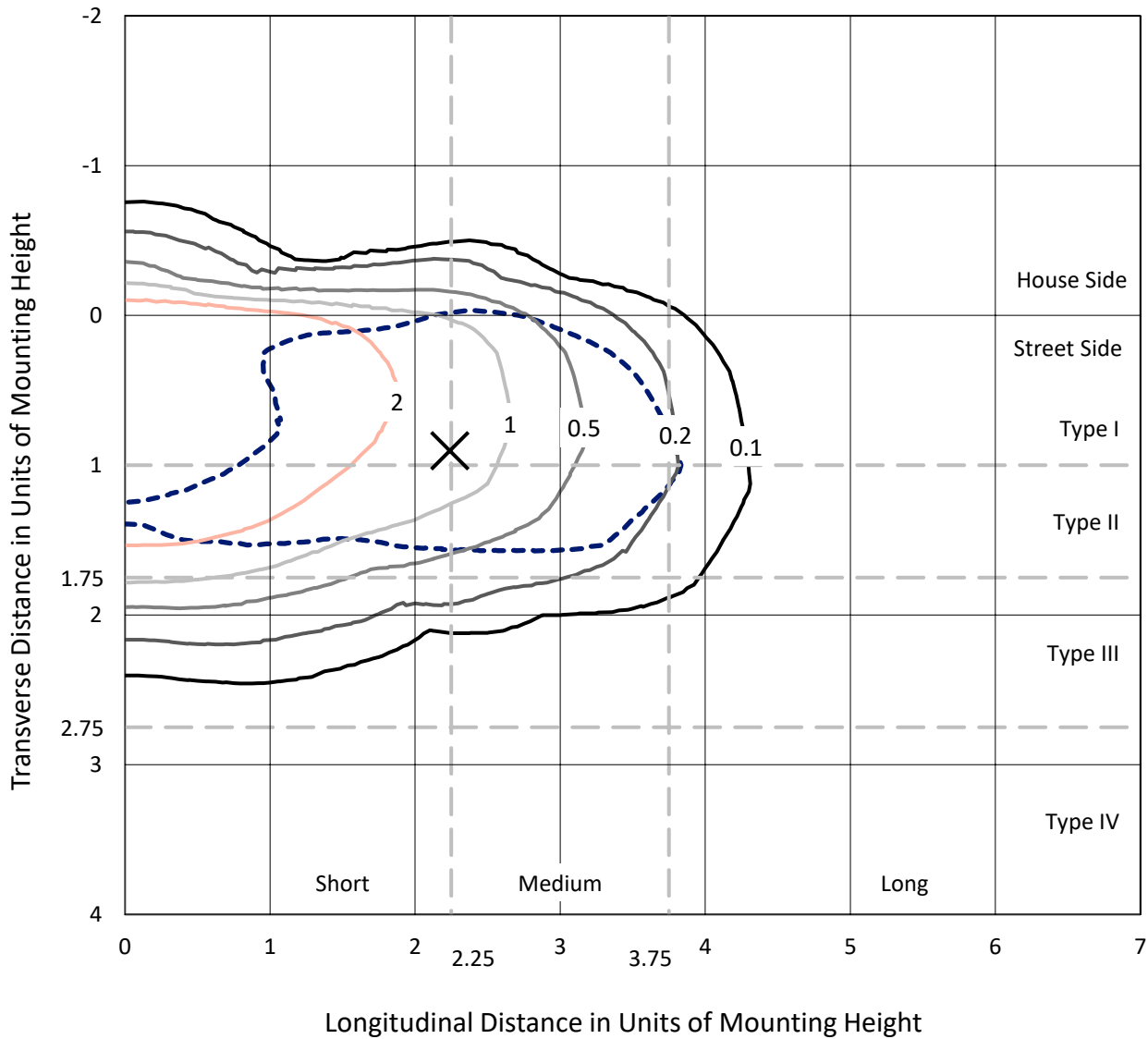
Lumens per Lamp: N/A  
Luminaire Lumens: 16575.2 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

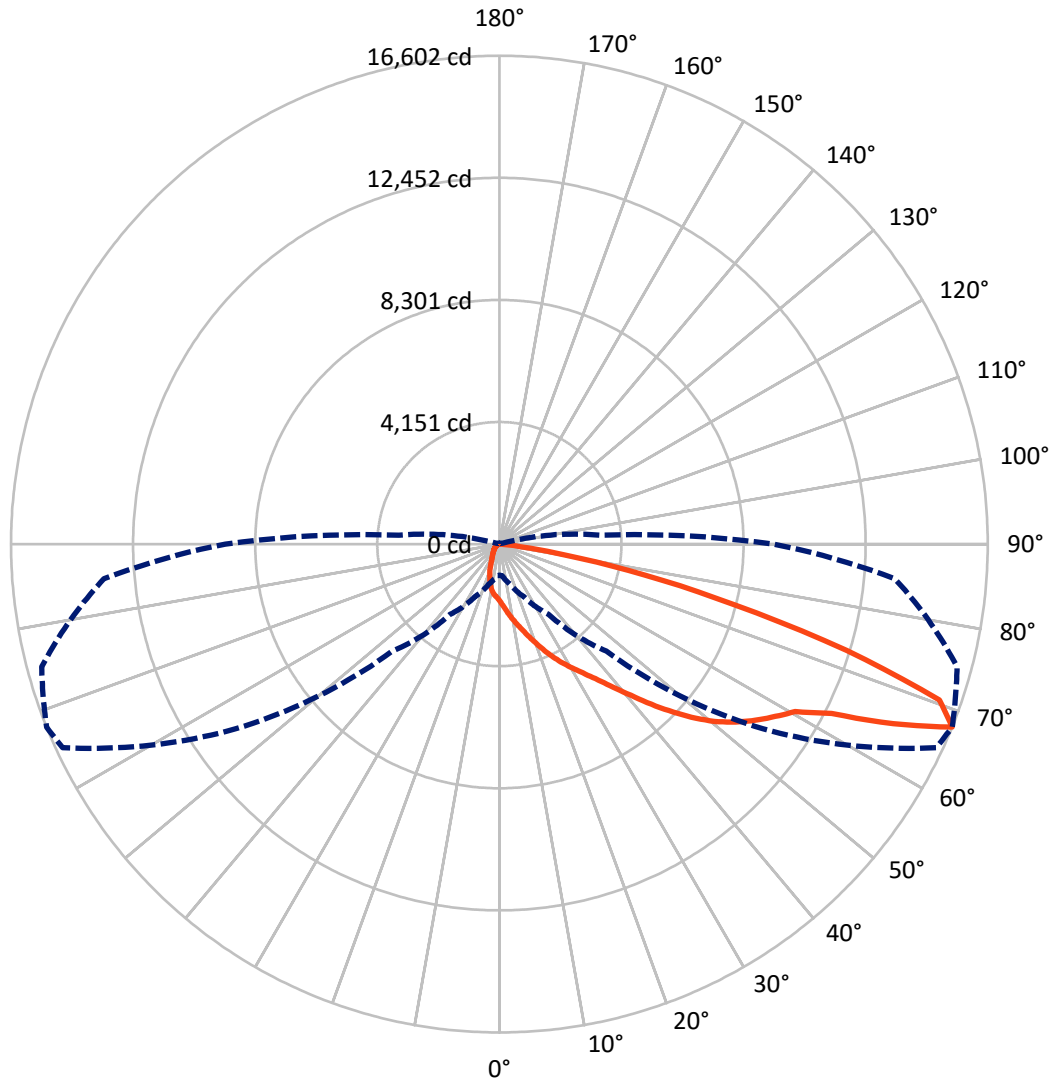
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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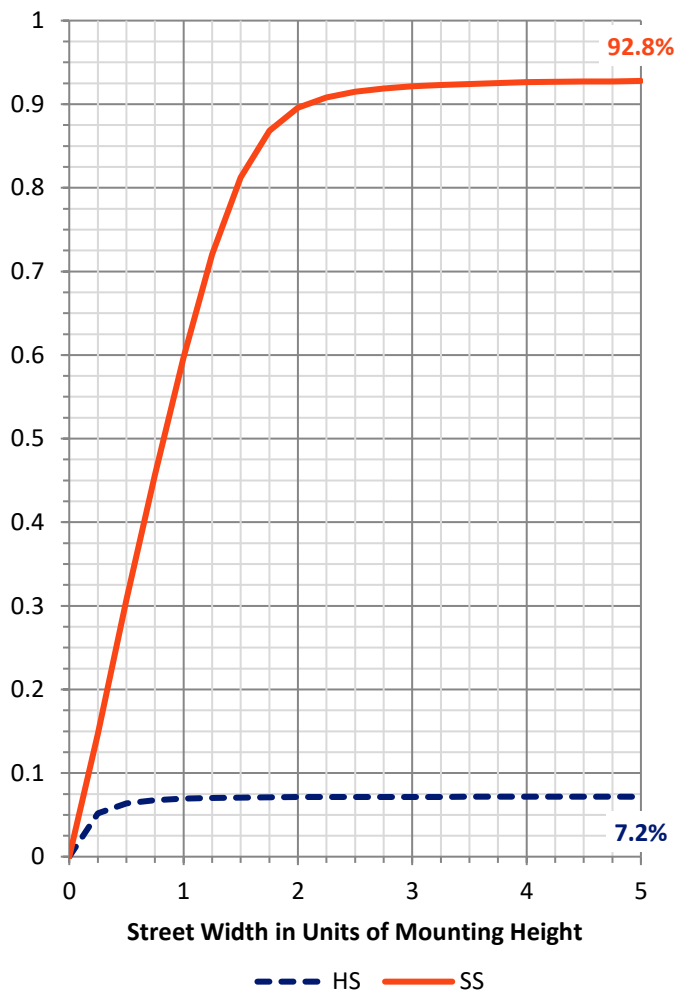
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1196.9	0.0	1196.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	15378.3	0.0	15378.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	16575.2	0.0	16575.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.1	1.1
10°-20°	540.3	3.3
20°-30°	928.4	5.6
30°-40°	1614.2	9.7
40°-50°	2816.6	17.0
50°-60°	4248.1	25.6
60°-70°	4259.8	25.7
70°-80°	1879.4	11.3
80°-90°	100.4	0.6
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°	16575.2	100.0
0°-180°	16575.2	100.0

**Coefficient of Utilization**



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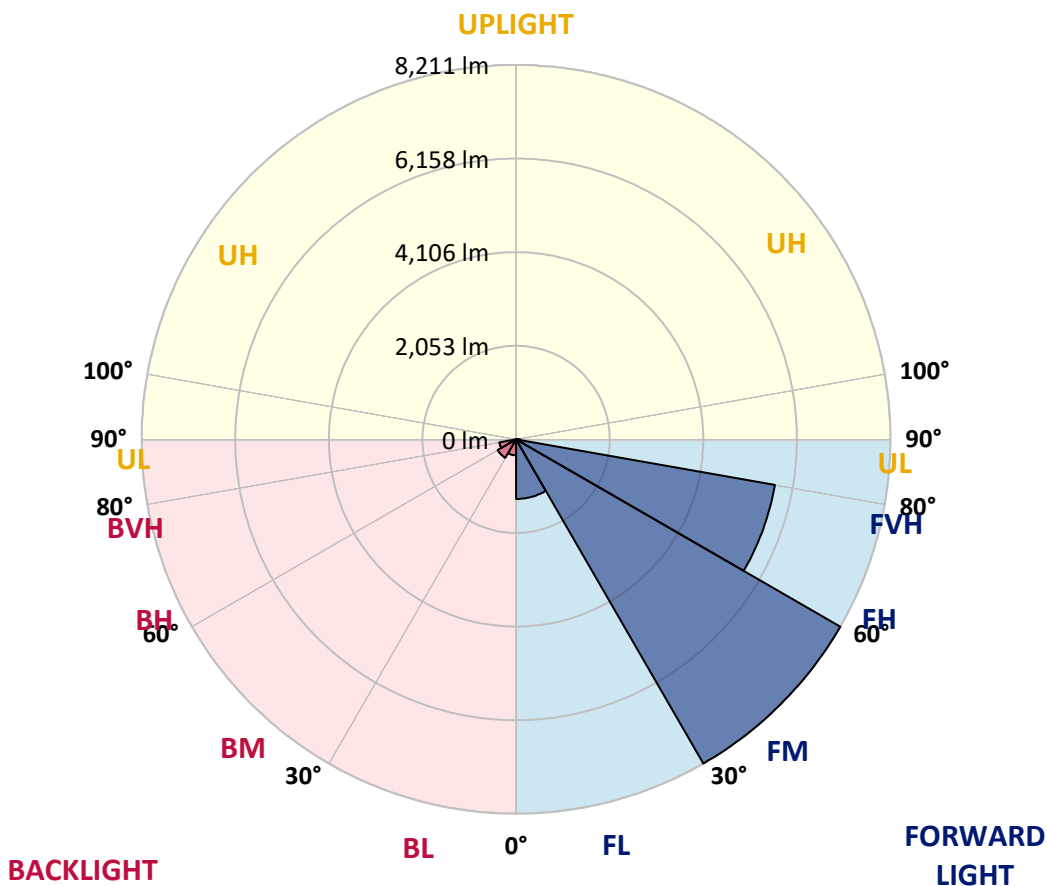
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1306.6	7.9			
FM (30°-60°)	8211.3	49.5			
FH (60°-80°)	5765.6	34.8			G3/7500
FVH (80°-90°)	94.7	0.6			G1/100
BL (0°-30°)	350.2	2.1	B1/500		
BM (30°-60°)	467.5	2.8	B1/1000		
BH (60°-80°)	373.5	2.3	B1/500		G1/500
BVH (80°-90°)	5.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9
2.5°	2246.2	2260.5	2246.2	2249.4	2208.1	2189.1	2147.8	2090.7	2076.5	2040.0	1984.5
5°	2520.6	2533.3	2519.0	2515.9	2468.3	2433.4	2365.2	2266.8	2238.3	2166.9	2057.4
7.5°	2669.7	2677.7	2682.4	2690.4	2672.9	2644.3	2582.5	2460.3	2430.2	2314.4	2160.5
10°	2685.6	2691.9	2715.7	2763.3	2798.2	2815.7	2780.8	2668.1	2620.6	2507.9	2287.4
12.5°	2641.2	2650.7	2688.8	2768.1	2864.8	2953.7	2975.9	2877.5	2834.7	2690.4	2436.5
15°	2582.5	2590.4	2642.8	2750.6	2896.6	3060.0	3152.0	3109.1	3061.5	2910.8	2601.5
17.5°	2492.1	2503.2	2576.1	2722.1	2910.8	3144.0	3342.3	3356.6	3323.3	3159.9	2783.9
20°	2441.3	2449.2	2514.3	2665.0	2901.3	3205.9	3520.0	3654.8	3618.3	3447.0	2993.3
22.5°	2484.1	2490.5	2533.3	2650.7	2869.6	3240.8	3685.0	3953.0	3932.4	3754.8	3213.8
25°	2709.4	2730.0	2704.6	2725.3	2883.9	3259.8	3818.2	4251.3	4256.0	4076.8	3442.3
27.5°	3166.2	3139.3	3079.0	2975.9	2994.9	3310.6	3932.4	4532.0	4573.3	4390.9	3645.3
30°	3631.0	3615.2	3578.7	3418.5	3285.2	3423.2	4029.2	4819.2	4884.2	4700.2	3826.1
32.5°	4152.9	4168.8	4103.7	3911.8	3685.0	3651.6	4129.1	5092.0	5214.1	5050.8	4038.7
35°	4776.3	4781.1	4652.6	4440.0	4183.1	4029.2	4308.4	5393.4	5618.6	5498.1	4322.6
37.5°	5383.9	5412.4	5342.6	5007.9	4779.5	4498.7	4605.0	5780.5	6097.7	6050.1	4679.6
40°	5921.6	5966.0	5943.8	5620.2	5320.4	5084.1	5065.0	6234.1	6676.7	6730.6	5150.7
42.5°	6349.9	6378.5	6395.9	6165.9	5901.0	5767.8	5632.9	6760.8	7360.4	7580.9	5728.1
45°	6802.0	6811.5	6848.0	6692.6	6461.0	6472.1	6303.9	7400.1	8080.6	8523.2	6391.2
47.5°	7377.8	7409.6	7392.1	7228.7	7019.3	7144.7	6997.1	8058.4	8791.2	9528.9	7070.1
50°	8079.0	8112.3	8096.4	7906.1	7672.9	7725.2	7633.2	8697.6	9476.5	10477.5	7634.8
52.5°	8440.7	8467.6	8664.3	8750.0	8627.8	8294.7	8175.8	9400.4	10055.5	11257.9	8153.5
55°	8266.2	8285.2	8713.5	9075.2	9522.5	9189.4	8721.4	9942.9	10566.3	11867.1	8539.0
57.5°	7542.8	7645.9	8228.1	8840.4	9781.1	10073.0	9606.6	10533.0	11058.0	12290.6	8918.1
60°	6059.6	6054.9	6889.3	7988.6	9276.6	10315.7	10856.6	11330.9	11551.4	12615.8	9425.8
62.5°	3348.7	3378.8	4489.2	5937.5	7874.4	9687.5	11794.1	12709.4	12676.1	13183.7	10220.5
65°	1667.2	1727.5	2330.3	3401.0	5239.5	8006.0	11955.9	14812.8	14717.6	14520.9	11862.3
67.5°	1058.1	1081.9	1415.0	1976.5	2912.4	5145.9	10948.6	16381.6	16602.1	16107.2	13491.4
70°	685.3	724.9	983.5	1351.5	1757.6	2652.3	8020.3	15364.8	15870.9	15932.7	12476.2
72.5°	372.8	401.3	628.2	964.5	1269.0	1326.1	4505.1	11530.8	12344.5	13515.2	9760.5
75°	212.6	233.2	344.2	655.1	931.2	807.4	1997.1	7718.9	8237.6	9658.9	6994.0
77.5°	128.5	145.9	193.5	318.8	583.8	539.3	755.1	4698.6	5028.5	5763.0	3670.7
80°	58.7	69.8	122.1	176.1	318.8	255.4	288.7	2190.7	2262.1	2365.2	1215.1
82.5°	27.0	31.7	55.5	104.7	180.8	147.5	111.0	506.0	712.2	674.2	309.3
85°	3.2	3.2	20.6	42.8	50.8	38.1	46.0	114.2	144.4	203.0	88.8
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	9.5	14.3	20.6	33.3	22.2
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°	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9
2.5°	1959.1	1914.7	1875.0	1816.3	1776.6	1732.2	1702.1	1665.6	1651.3	1640.2	1624.4
5°	2003.5	1932.1	1835.3	1727.5	1638.6	1554.6	1476.8	1426.1	1381.7	1375.3	1353.1
7.5°	2076.5	1970.2	1806.8	1630.7	1480.0	1340.4	1231.0	1142.1	1097.7	1083.4	1058.1
10°	2173.2	2027.3	1764.0	1494.3	1277.0	1110.4	986.7	886.7	816.9	791.6	772.5
12.5°	2281.1	2079.6	1695.7	1326.1	1078.7	888.3	731.3	625.0	580.6	564.7	550.4
15°	2404.8	2128.8	1587.9	1158.0	885.2	653.6	542.5	496.5	477.5	472.7	468.0
17.5°	2523.8	2160.5	1459.4	983.5	680.5	507.6	455.3	437.8	433.1	428.3	425.1
20°	2658.6	2182.7	1308.7	818.5	528.2	429.9	404.5	391.8	382.3	372.8	371.2
22.5°	2796.6	2182.7	1145.3	656.7	442.6	385.5	356.9	333.1	315.7	306.2	303.0
25°	2928.3	2152.6	983.5	525.1	390.2	342.6	306.2	279.2	255.4	244.3	241.1
27.5°	3021.9	2074.9	842.3	444.2	353.7	304.6	260.2	230.0	211.0	199.9	198.3
30°	3080.6	1959.1	712.2	396.6	322.0	264.9	220.5	195.1	180.8	172.9	169.7
32.5°	3125.0	1816.3	596.4	363.3	291.9	230.0	191.9	171.3	158.6	152.3	150.7
35°	3213.8	1681.5	510.8	333.1	260.2	201.5	168.1	152.3	142.8	134.8	133.2
37.5°	3337.6	1568.8	442.6	306.2	230.0	179.3	152.3	138.0	130.1	122.1	120.6
40°	3520.0	1497.5	391.8	279.2	203.0	161.8	139.6	126.9	115.8	107.9	106.3
42.5°	3800.8	1464.1	358.5	252.2	179.3	145.9	128.5	112.6	101.5	93.6	92.0
45°	4135.5	1481.6	329.9	225.3	163.4	134.8	114.2	98.4	87.2	79.3	77.7
47.5°	4494.0	1543.5	306.2	199.9	147.5	123.7	101.5	84.1	74.6	66.6	65.0
50°	4868.3	1645.0	285.5	176.1	134.8	111.0	87.2	73.0	63.5	57.1	55.5
52.5°	5193.5	1783.0	264.9	158.6	123.7	98.4	76.1	63.5	53.9	47.6	46.0
55°	5504.4	1913.1	249.0	142.8	111.0	85.7	66.6	53.9	46.0	39.7	38.1
57.5°	5842.3	2051.1	230.0	128.5	99.9	76.1	58.7	46.0	39.7	33.3	31.7
60°	6334.1	2255.7	201.5	117.4	87.2	66.6	50.8	41.2	34.9	27.0	25.4
62.5°	7043.1	2628.5	169.7	101.5	74.6	57.1	42.8	34.9	28.6	22.2	19.0
65°	8369.3	3263.0	139.6	84.1	60.3	47.6	36.5	28.6	22.2	15.9	14.3
67.5°	9324.2	3428.0	112.6	68.2	49.2	36.5	30.1	22.2	15.9	11.1	9.5
70°	8152.0	2461.9	87.2	55.5	41.2	28.6	23.8	17.4	11.1	7.9	6.3
72.5°	6142.1	1608.5	65.0	42.8	31.7	23.8	17.4	14.3	9.5	6.3	4.8
75°	4329.0	929.6	47.6	31.7	22.2	17.4	14.3	11.1	7.9	4.8	4.8
77.5°	2219.2	383.9	33.3	22.2	15.9	11.1	9.5	6.3	6.3	4.8	3.2
80°	674.2	126.9	19.0	14.3	11.1	7.9	4.8	4.8	4.8	3.2	1.6
82.5°	153.9	41.2	11.1	11.1	7.9	6.3	4.8	1.6	1.6	0.0	0.0
85°	39.7	12.7	9.5	7.9	7.9	6.3	3.2	1.6	0.0	0.0	0.0
87.5°	14.3	7.9	7.9	7.9	6.3	4.8	3.2	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)