

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: P640290

Luminaire Tested: GWS-SA5D-750-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-750-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

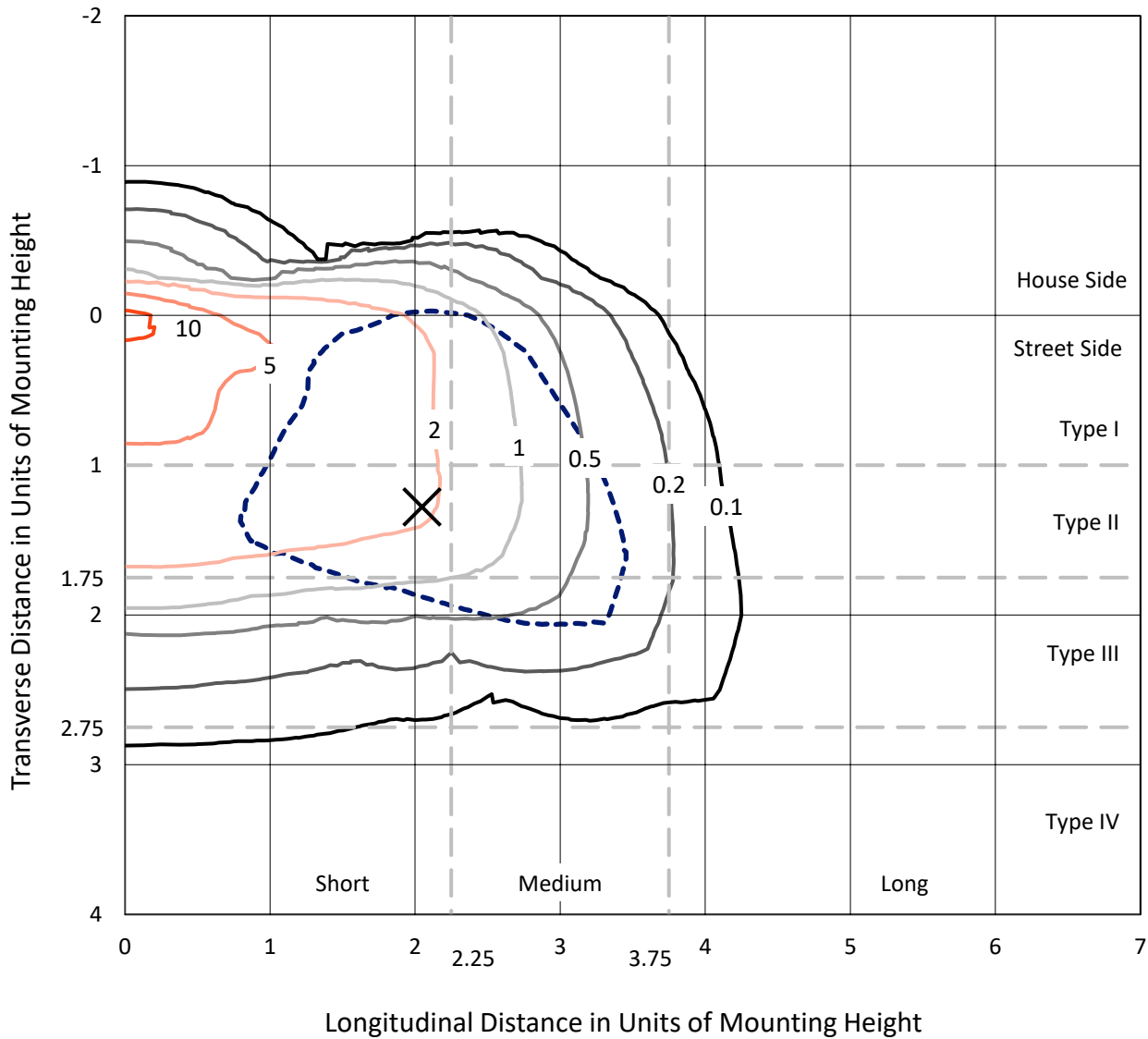
Lumens per Lamp: N/A  
Luminaire Lumens: 24888.3 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

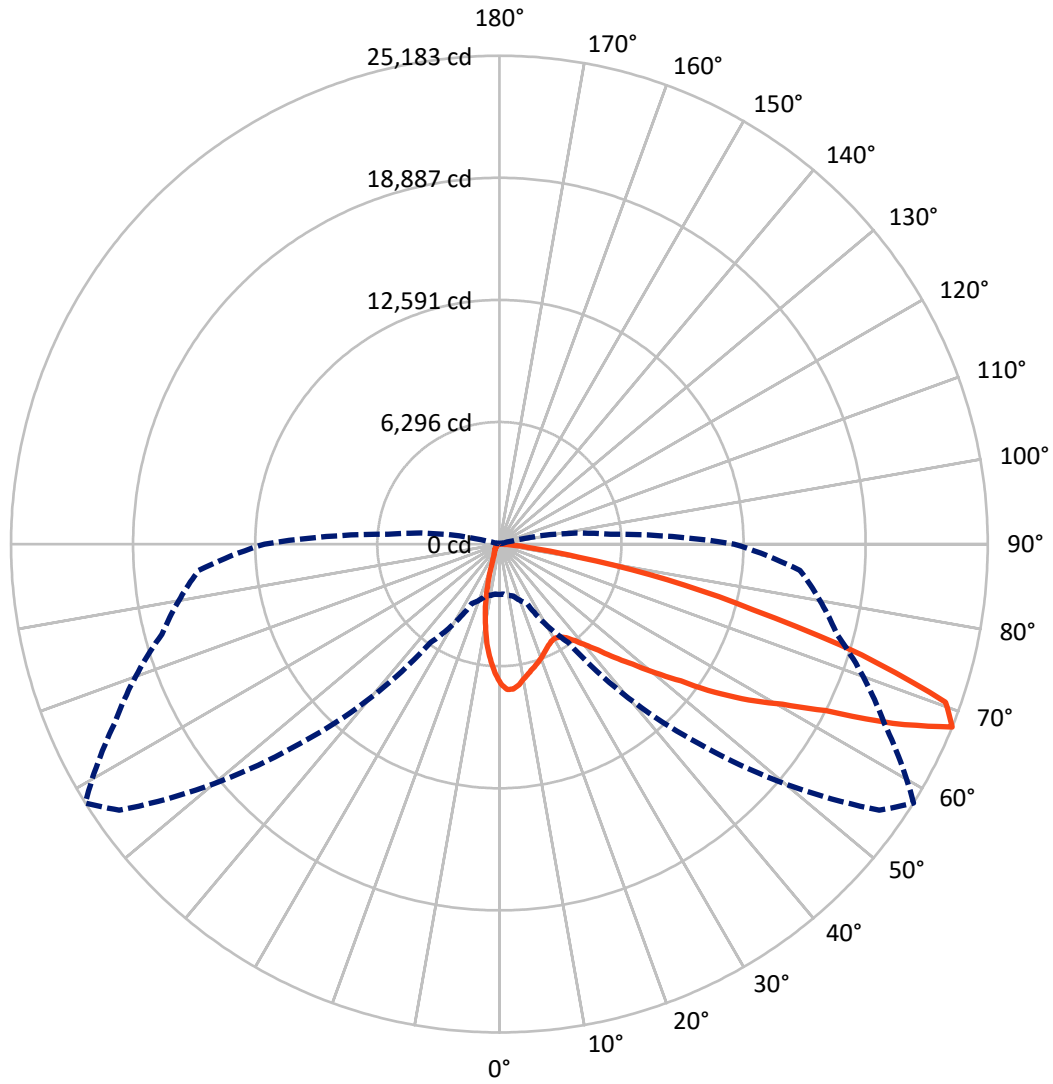
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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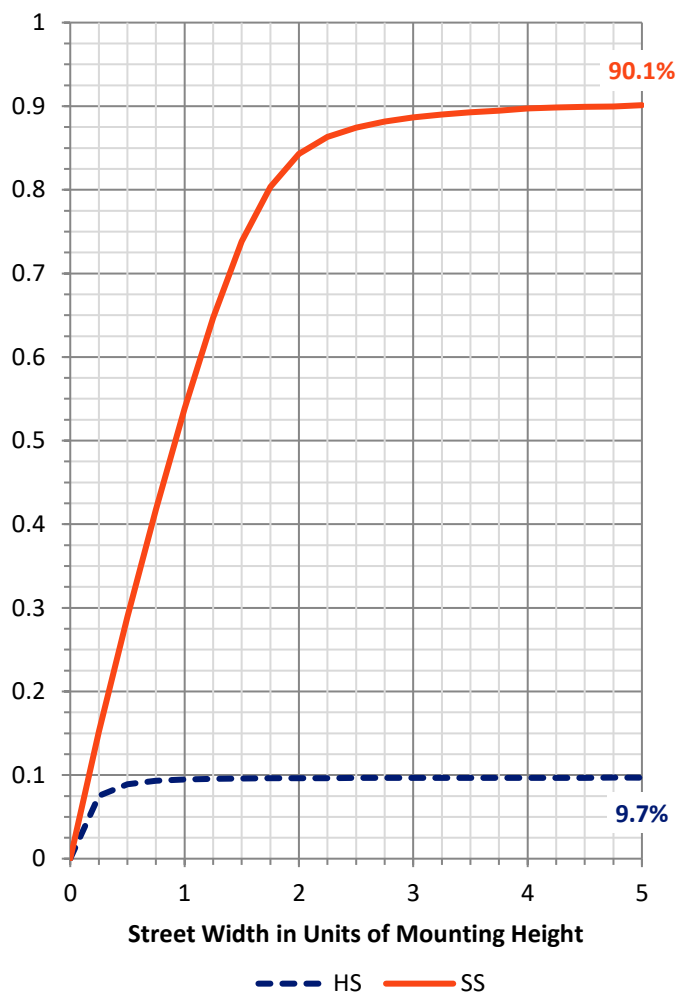
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2431.4	0.0	2431.4
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	22456.9	0.0	22456.9
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	24888.3	0.0	24888.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.4	2.3
10°-20°	1214.3	4.9
20°-30°	1637.6	6.6
30°-40°	2301.2	9.2
40°-50°	3554.0	14.3
50°-60°	5683.3	22.8
60°-70°	6729.4	27.0
70°-80°	2976.9	12.0
80°-90°	208.1	0.8
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°	24888.3	100.0
0°-180°	24888.3	100.0

**Coefficient of Utilization**

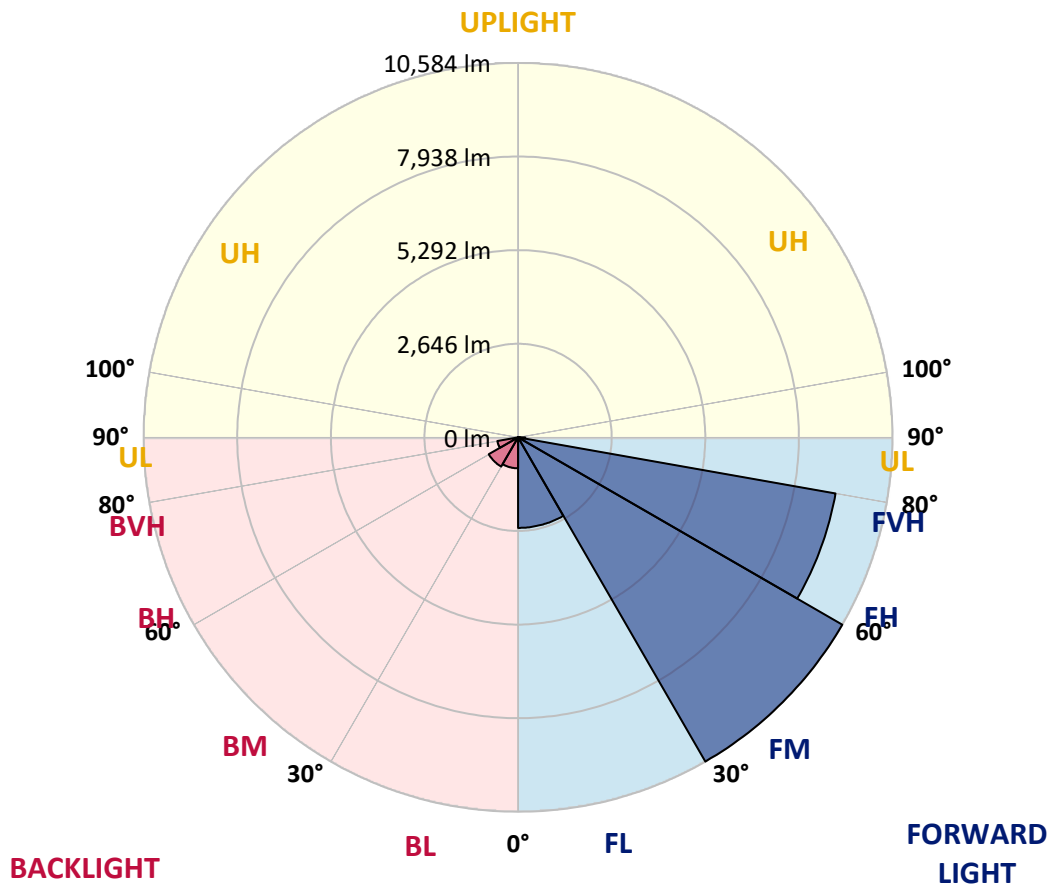


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2560.4	10.3			
FM (30°-60°)	10584.5	42.5			
FH (60°-80°)	9112.8	36.6			G4/12000
FVH (80°-90°)	199.3	0.8			G2/225
BL (0°-30°)	875.0	3.5	B2/1000		
BM (30°-60°)	954.0	3.8	B1/1000		
BH (60°-80°)	593.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	8.9	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0
2.5°	7551.2	7564.4	7582.1	7604.1	7599.7	7579.9	7555.6	7500.6	7465.3	7355.2	7220.8
5°	7308.9	7306.7	7350.8	7392.6	7467.5	7507.2	7562.2	7511.6	7494.0	7361.8	7143.7
7.5°	6835.3	6859.5	6910.2	6976.3	7084.2	7201.0	7333.2	7317.7	7370.6	7282.5	7011.5
10°	6370.5	6357.3	6436.6	6535.7	6700.9	6850.7	7042.4	7040.2	7179.0	7170.1	6861.7
12.5°	5963.0	5960.8	6022.5	6134.8	6328.7	6537.9	6797.9	6804.5	6976.3	7046.8	6734.0
15°	5619.4	5623.8	5683.2	5800.0	6000.5	6256.0	6557.8	6612.8	6806.7	6949.9	6608.4
17.5°	5374.9	5377.1	5412.3	5513.6	5709.7	5982.8	6346.3	6421.2	6670.1	6877.2	6507.1
20°	5262.5	5253.7	5260.3	5311.0	5463.0	5711.9	6130.4	6227.3	6544.5	6826.5	6414.6
22.5°	5277.9	5264.7	5233.9	5227.3	5295.6	5485.0	5901.3	6020.3	6408.0	6795.7	6330.9
25°	5414.5	5385.9	5341.8	5275.7	5249.3	5344.0	5700.9	5824.2	6280.2	6797.9	6267.0
27.5°	5623.8	5592.9	5537.9	5449.7	5346.2	5306.6	5564.3	5681.0	6189.9	6848.5	6236.2
30°	5890.3	5866.1	5813.2	5707.5	5568.7	5405.7	5535.7	5632.6	6145.8	6952.1	6249.4
32.5°	6205.3	6187.7	6143.6	6046.7	5888.1	5639.2	5632.6	5707.5	6181.1	7101.9	6300.0
35°	6509.3	6515.9	6518.1	6465.2	6295.6	5993.8	5899.1	5925.6	6326.5	7326.5	6414.6
37.5°	6837.5	6822.1	6901.4	6938.8	6775.8	6454.2	6311.0	6313.2	6604.0	7659.2	6630.5
40°	7086.4	7090.8	7262.7	7416.9	7348.6	7038.0	6833.1	6830.9	7031.4	8115.1	6978.5
42.5°	7319.9	7348.6	7601.9	7866.2	7961.0	7685.6	7538.0	7482.9	7630.5	8731.9	7500.6
45°	7568.9	7610.7	7965.4	8342.0	8591.0	8427.9	8311.2	8333.2	8350.8	9450.0	8203.3
47.5°	7859.6	7886.1	8324.4	8855.3	9320.1	9278.2	9284.8	9258.4	9249.6	10355.4	9132.8
50°	8212.1	8273.7	8778.2	9412.6	10047.0	10324.6	10417.1	10428.1	10284.9	11342.3	10095.5
52.5°	8961.0	9035.9	9467.7	10022.8	10840.0	11423.8	11800.4	11725.6	11505.3	12298.3	11150.6
55°	9844.4	9901.6	10318.0	10892.9	11809.3	12628.7	13523.0	13492.2	12952.5	13305.0	12018.5
57.5°	9928.1	9991.9	10637.4	11518.5	13053.8	14117.8	15058.4	15157.5	14366.7	14018.7	12793.9
60°	8987.5	9117.4	9998.5	11183.7	13529.7	16120.2	16741.3	16761.2	15404.2	14743.4	13741.1
62.5°	7203.2	7264.9	8152.6	9699.0	12796.1	17287.6	19312.0	18893.5	16736.9	15864.6	15241.2
65°	3775.6	4026.7	4799.9	6511.5	10377.4	16880.1	22404.8	22290.2	19133.6	17470.5	16408.7
67.5°	2590.5	2588.3	2771.1	3394.5	6187.7	14534.1	23922.5	25182.5	21904.7	18021.2	15562.8
70°	1971.5	1978.1	2141.1	2546.4	3205.1	9674.7	22257.2	24411.5	22420.2	16362.5	12586.8
72.5°	1308.5	1321.7	1592.6	2057.4	2559.7	4742.6	17296.5	19532.3	18864.9	13142.0	8859.7
75°	782.0	793.0	986.9	1495.7	2275.5	2654.4	10989.8	13503.2	12985.6	9057.9	4749.3
77.5°	321.6	330.4	506.6	931.8	1665.3	2061.8	6077.5	8835.5	7778.1	3601.6	1297.5
80°	134.4	138.8	244.5	652.0	1200.5	1293.0	2815.2	4152.3	3187.5	775.4	396.5
82.5°	48.5	50.7	90.3	359.1	746.8	973.6	1420.8	1641.1	898.7	253.3	213.7
85°	2.2	2.2	22.0	121.2	284.2	275.4	812.8	786.4	297.4	105.7	127.8
87.5°	0.0	0.0	2.2	2.2	4.4	11.0	77.1	136.6	63.9	26.4	55.1
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°	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0
2.5°	7132.7	7015.9	6888.2	6769.2	6579.8	6467.4	6328.7	6267.0	6178.9	6156.9	6170.1
5°	6987.3	6786.9	6480.7	6203.1	5844.1	5555.5	5264.7	5141.4	4982.8	4877.0	4833.0
7.5°	6782.4	6520.3	6042.3	5537.9	5044.4	4518.0	4117.0	3852.7	3612.6	3480.4	3454.0
10°	6575.4	6233.9	5548.9	4826.4	4062.0	3432.0	2890.1	2489.2	2163.2	2015.6	1901.0
12.5°	6361.7	5936.6	5046.6	4103.8	3216.1	2357.0	1687.4	1297.5	1064.0	971.4	986.9
15°	6165.7	5650.2	4548.8	3381.3	2264.5	1423.0	931.8	786.4	731.3	713.7	711.5
17.5°	5978.4	5379.3	4053.2	2678.6	1493.5	872.3	713.7	678.5	663.0	654.2	654.2
20°	5808.8	5119.3	3568.6	2017.8	964.8	691.7	645.4	627.8	614.6	608.0	608.0
22.5°	5650.2	4868.2	3094.9	1427.4	711.5	621.2	592.6	574.9	559.5	550.7	550.7
25°	5507.0	4641.3	2643.4	982.5	612.4	568.3	537.5	517.7	491.2	475.8	475.8
27.5°	5403.5	4438.7	2209.4	715.9	552.9	511.1	475.8	449.4	420.7	403.1	398.7
30°	5341.8	4266.8	1771.1	588.1	497.8	456.0	416.3	383.3	350.2	332.6	330.4
32.5°	5306.6	4108.2	1370.1	513.3	451.6	403.1	359.1	323.8	290.8	270.9	268.7
35°	5319.8	3984.9	1026.5	462.6	407.5	356.9	308.4	273.1	244.5	226.9	222.5
37.5°	5434.3	3929.8	771.0	422.9	370.1	317.2	266.5	233.5	207.1	193.8	191.6
40°	5656.8	3940.8	605.8	392.1	339.2	277.6	229.1	198.3	178.4	167.4	165.2
42.5°	6002.7	4033.3	500.0	365.7	306.2	242.3	198.3	174.0	154.2	143.2	141.0
45°	6518.1	4225.0	436.2	334.8	270.9	209.3	171.8	149.8	132.2	119.0	116.7
47.5°	7264.9	4557.6	394.3	306.2	240.1	180.6	147.6	125.6	110.1	99.1	96.9
50°	8060.1	4956.3	359.1	277.6	213.7	156.4	125.6	103.5	90.3	79.3	77.1
52.5°	8908.2	5385.9	332.6	251.1	189.4	134.4	105.7	85.9	72.7	61.7	59.5
55°	9723.2	5817.6	301.8	233.5	160.8	114.5	88.1	70.5	57.3	48.5	48.5
57.5°	10516.2	6214.1	268.7	204.9	132.2	96.9	72.7	57.3	46.3	39.7	37.4
60°	11463.4	6762.6	231.3	174.0	110.1	81.5	59.5	46.3	37.4	30.8	30.8
62.5°	12871.0	7333.2	198.3	145.4	92.5	68.3	48.5	37.4	30.8	26.4	24.2
65°	13331.4	7024.8	167.4	119.0	74.9	55.1	39.7	33.0	26.4	24.2	22.0
67.5°	12102.2	5758.1	138.8	96.9	61.7	46.3	35.2	28.6	24.2	22.0	19.8
70°	9443.4	4086.2	107.9	72.7	50.7	37.4	30.8	26.4	22.0	19.8	19.8
72.5°	6423.4	2416.5	85.9	55.1	41.9	33.0	26.4	24.2	22.0	19.8	17.6
75°	3163.2	859.1	66.1	41.9	33.0	28.6	24.2	22.0	19.8	17.6	17.6
77.5°	852.5	237.9	50.7	33.0	26.4	22.0	22.0	22.0	19.8	15.4	15.4
80°	288.6	99.1	37.4	24.2	22.0	17.6	15.4	19.8	17.6	15.4	13.2
82.5°	158.6	48.5	26.4	19.8	15.4	13.2	13.2	13.2	13.2	11.0	11.0
85°	101.3	26.4	17.6	15.4	15.4	11.0	8.8	8.8	6.6	6.6	6.6
87.5°	46.3	15.4	15.4	13.2	13.2	11.0	6.6	4.4	2.2	2.2	2.2
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)