

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: P640121

Luminaire Tested: GWS-SA5D-730-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

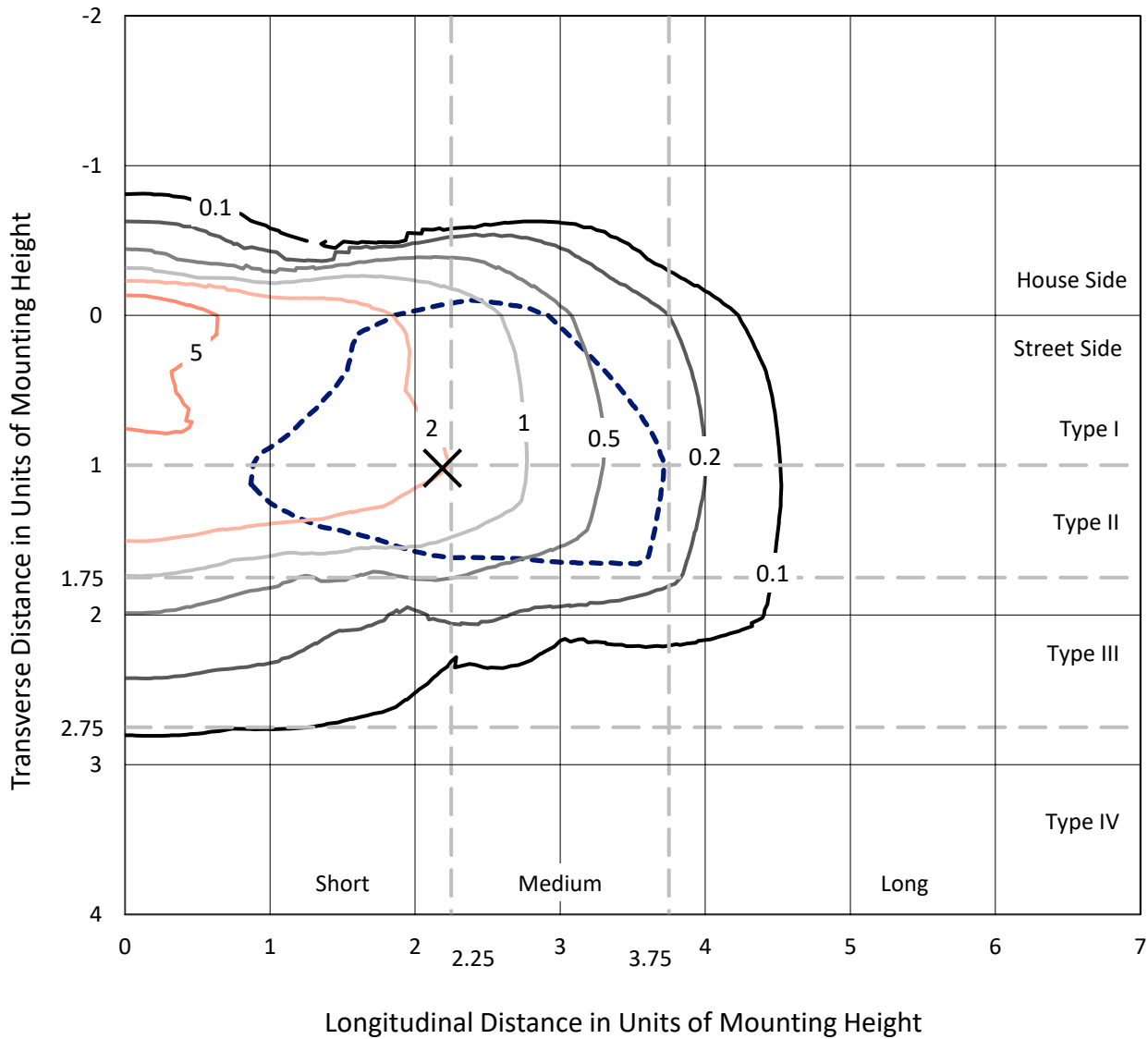
Lumens per Lamp: N/A  
Luminaire Lumens: 21685.3 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

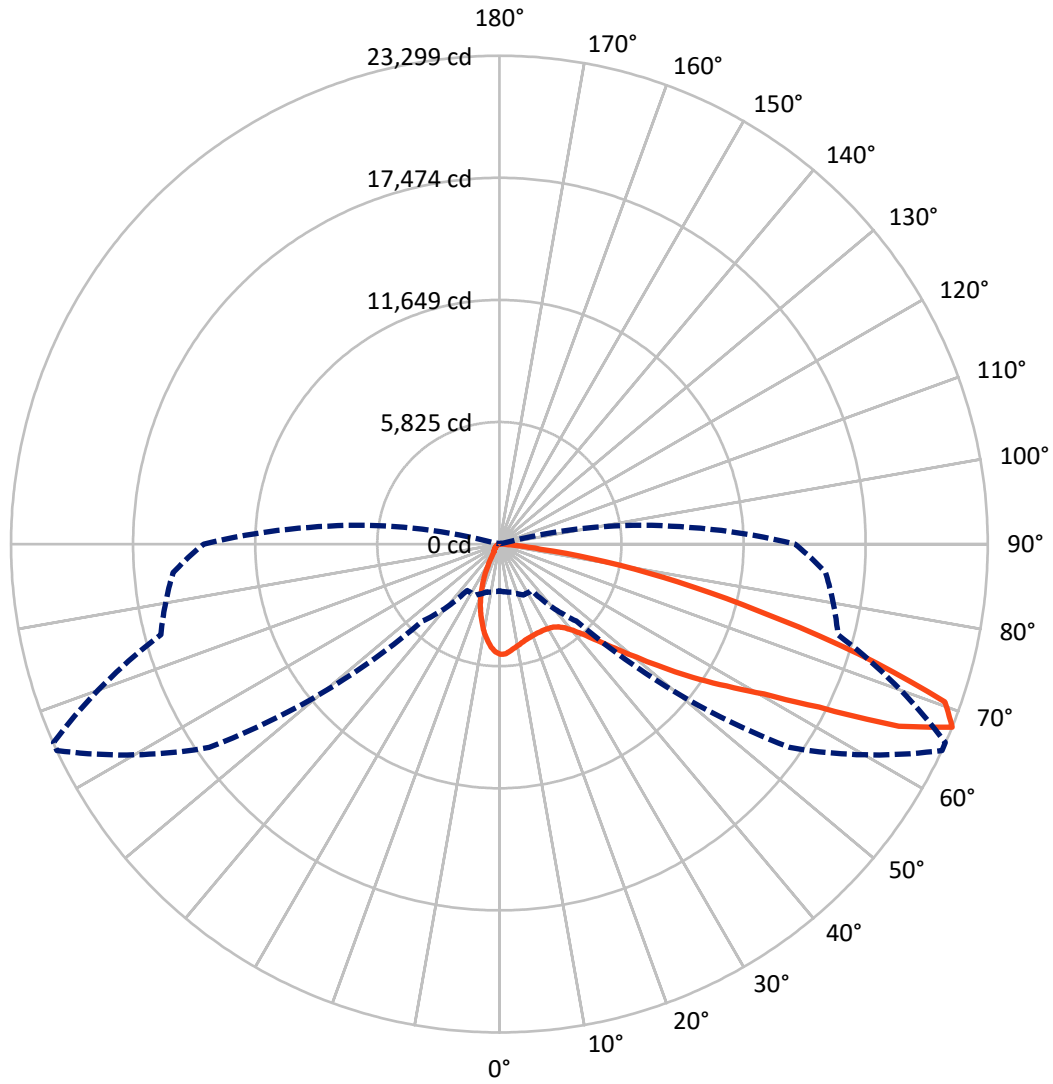
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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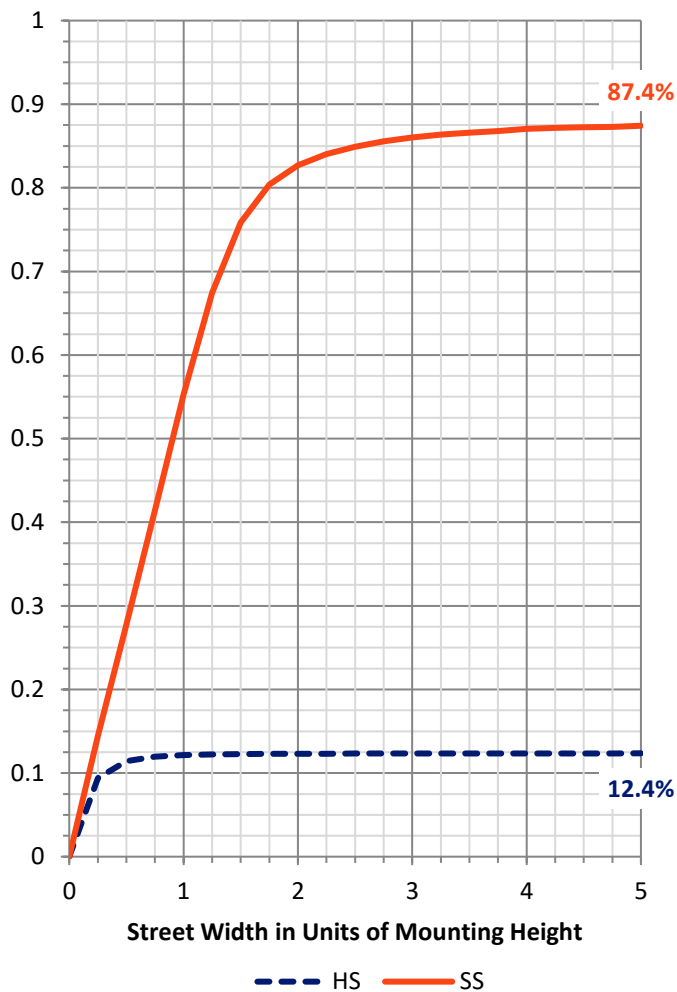
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2707.8	0.0	2707.8
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	18977.5	0.0	18977.5
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	21685.3	0.0	21685.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.8	2.0
10°-20°	981.9	4.5
20°-30°	1403.1	6.5
30°-40°	2041.4	9.4
40°-50°	3197.2	14.7
50°-60°	4987.7	23.0
60°-70°	5478.7	25.3
70°-80°	2915.7	13.4
80°-90°	242.7	1.1
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°	21685.3	100.0
0°-180°	21685.3	100.0

**Coefficient of Utilization**



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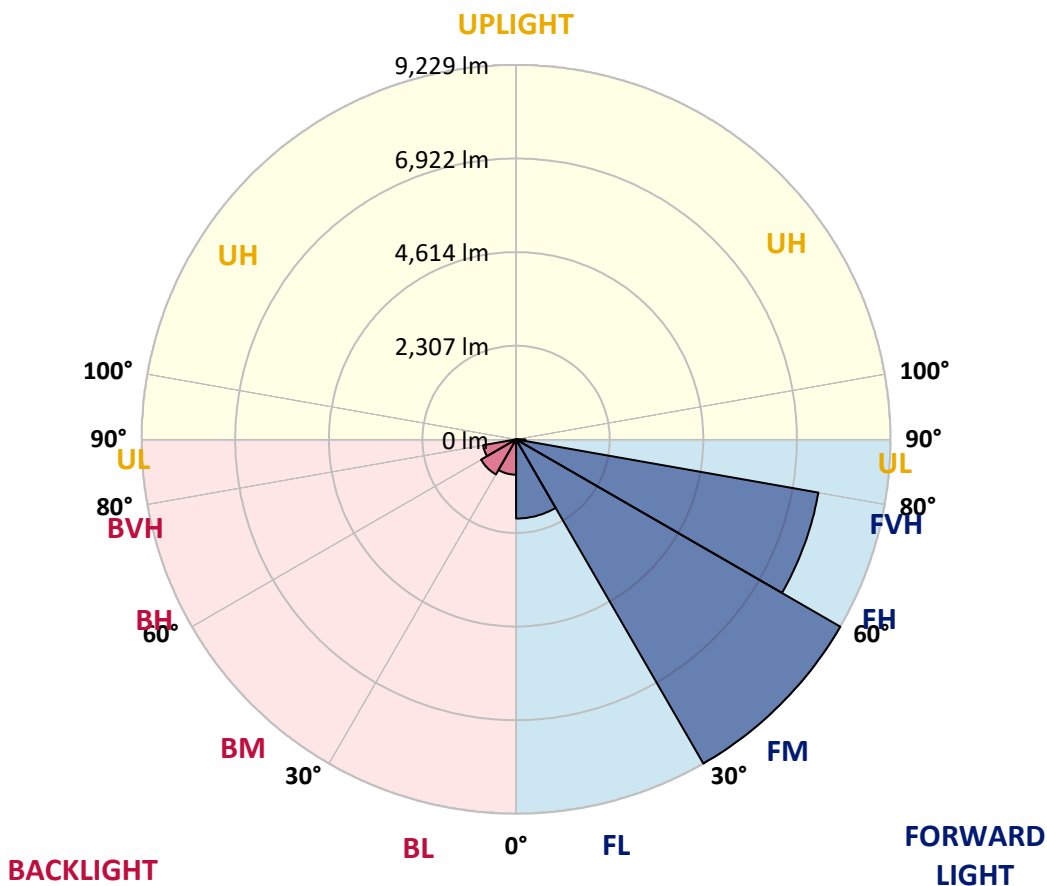
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1951.5	9.0			
FM (30°-60°)	9228.8	42.6			
FH (60°-80°)	7567.3	34.9			G4/12000
FVH (80°-90°)	229.8	1.1			G3/500
BL (0°-30°)	870.4	4.0	B2/1000		
BM (30°-60°)	997.4	4.6	B1/1000		
BH (60°-80°)	827.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4
2.5°	5077.0	5092.7	5071.1	5124.1	5133.9	5192.7	5226.0	5249.6	5247.6	5277.0	5277.0
5°	4778.9	4794.6	4782.8	4839.7	4884.8	4977.0	5053.5	5141.7	5145.6	5235.8	5269.2
7.5°	4526.0	4527.9	4527.9	4598.5	4657.3	4771.1	4884.8	5020.1	5035.8	5175.0	5263.3
10°	4318.1	4324.0	4325.9	4406.3	4471.1	4608.3	4753.4	4916.2	4933.8	5122.1	5259.4
12.5°	4174.9	4176.9	4184.7	4269.1	4339.7	4482.8	4629.9	4816.2	4839.7	5061.3	5241.7
15°	4106.3	4102.4	4106.3	4176.9	4247.5	4384.8	4535.8	4735.8	4761.3	5010.3	5243.7
17.5°	4102.4	4096.5	4092.6	4145.5	4190.6	4312.2	4465.2	4682.8	4710.3	4986.8	5265.3
20°	4159.3	4155.3	4135.7	4159.3	4169.1	4269.1	4420.1	4641.7	4669.1	4982.9	5312.3
22.5°	4308.3	4298.5	4269.1	4247.5	4194.6	4253.4	4388.7	4612.2	4643.6	4992.7	5373.1
25°	4529.9	4526.0	4488.7	4435.8	4300.4	4276.9	4390.7	4612.2	4641.7	5004.4	5437.8
27.5°	4863.2	4839.7	4792.7	4700.5	4506.3	4369.1	4429.9	4624.0	4653.4	5020.1	5490.8
30°	5202.5	5200.5	5184.9	5090.7	4802.5	4545.6	4512.2	4655.4	4682.8	5033.9	5539.8
32.5°	5553.5	5559.4	5598.6	5526.1	5210.3	4808.3	4661.3	4720.1	4739.7	5061.3	5582.9
35°	5886.9	5898.7	6002.6	6028.1	5706.5	5206.4	4904.4	4849.5	4851.5	5122.1	5639.8
37.5°	6206.5	6245.7	6412.4	6536.0	6324.2	5688.8	5255.4	5069.2	5053.5	5243.7	5726.1
40°	6569.3	6643.8	6853.7	7063.5	6996.8	6326.1	5733.9	5406.4	5373.1	5467.2	5881.0
42.5°	6971.3	7051.7	7330.2	7624.3	7655.7	7096.8	6332.0	5898.7	5841.8	5843.7	6171.2
45°	7402.7	7510.6	7834.1	8257.7	8447.9	7955.7	7069.4	6563.4	6506.6	6422.2	6637.9
47.5°	7969.5	8063.6	8375.4	8863.7	9228.4	8877.4	8036.1	7418.4	7314.5	7190.9	7363.5
50°	8457.7	8540.1	8808.8	9420.6	10179.5	10065.7	9132.3	8487.2	8387.1	8177.3	8320.5
52.5°	8565.6	8630.3	8877.4	9565.7	10907.0	11565.9	10475.6	9779.4	9708.8	9320.6	9375.5
55°	8081.2	8179.3	8400.9	9165.7	11097.2	13032.7	12218.9	11236.5	11089.4	10469.7	10567.8
57.5°	6857.6	7032.1	7240.0	8234.2	10581.5	13813.2	14654.5	12779.8	12646.4	11575.7	11577.7
60°	5026.0	5167.2	5306.4	6216.3	9357.8	13760.2	16864.5	14513.3	14270.1	12479.7	12446.4
62.5°	3655.3	3727.8	3725.9	4049.4	6426.2	12854.3	18025.4	17125.3	16558.6	13446.5	13256.3
65°	2874.8	2872.8	2957.2	3063.1	3588.6	9922.6	18168.5	20939.4	20327.6	14742.7	14346.6
67.5°	2237.5	2280.6	2365.0	2676.7	2696.4	5192.7	16909.6	23298.5	23286.7	16721.3	15623.2
70°	1725.7	1784.5	1904.1	2359.1	2490.5	2906.2	12652.3	22551.4	22741.6	17605.7	14719.2
72.5°	1108.0	1104.0	1280.5	1906.1	2392.4	2421.8	6996.8	17913.6	18129.3	15946.8	11901.2
75°	619.7	623.6	723.6	1166.8	2229.6	2278.7	3465.1	12773.9	12944.5	12432.7	9144.1
77.5°	243.2	251.0	339.3	613.8	1470.7	2035.5	2059.0	8710.7	8736.2	7704.7	5608.4
80°	98.0	103.9	172.6	380.4	896.2	1370.7	1470.7	5131.9	5028.0	2982.7	1631.5
82.5°	29.4	31.4	68.6	215.7	468.7	974.6	992.3	1968.8	1859.0	641.2	415.7
85°	2.0	2.0	15.7	66.7	166.7	245.1	660.9	641.2	568.7	160.8	184.3
87.5°	0.0	0.0	2.0	2.0	3.9	7.8	70.6	117.7	119.6	29.4	82.4
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°	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4	5259.4
2.5°	5277.0	5206.4	5200.5	5145.6	5090.7	5022.1	4941.7	4882.9	4841.7	4769.1	4755.4
5°	5269.2	5175.0	5086.8	4929.9	4755.4	4567.1	4402.4	4249.5	4153.4	4088.7	4061.2
7.5°	5253.5	5133.9	4929.9	4633.8	4341.6	4012.2	3755.3	3520.0	3359.2	3265.0	3223.9
10°	5241.7	5080.9	4749.5	4300.4	3847.5	3392.5	3002.3	2653.2	2459.1	2306.1	2280.6
12.5°	5218.2	5004.4	4518.1	3910.2	3325.8	2721.9	2223.8	1796.3	1500.2	1366.8	1319.7
15°	5194.7	4924.0	4286.7	3498.4	2757.1	2012.0	1408.0	996.2	792.2	729.5	725.6
17.5°	5190.7	4851.5	4035.7	3108.2	2161.0	1317.8	802.0	645.2	602.0	586.3	586.3
20°	5202.5	4790.7	3788.6	2659.1	1574.7	802.0	598.1	558.9	533.4	519.7	519.7
22.5°	5214.3	4727.9	3551.3	2206.1	1045.2	586.3	527.5	494.2	464.8	449.1	441.2
25°	5222.1	4659.3	3288.6	1751.2	682.4	509.9	462.8	419.7	384.4	364.7	364.7
27.5°	5220.1	4576.9	3023.8	1306.0	529.5	453.0	396.1	351.0	315.7	294.1	296.1
30°	5204.5	4486.7	2749.3	911.9	462.8	396.1	339.3	292.2	256.9	239.2	237.3
32.5°	5192.7	4390.7	2431.6	641.2	415.7	347.1	288.3	243.2	213.7	200.0	198.1
35°	5179.0	4296.5	2129.6	488.3	374.5	300.0	243.2	205.9	182.4	170.6	170.6
37.5°	5182.9	4198.5	1802.1	419.7	333.4	260.8	207.9	176.5	156.9	145.1	143.2
40°	5243.7	4139.6	1480.5	380.4	296.1	225.5	180.4	153.0	133.3	121.6	119.6
42.5°	5394.7	4141.6	1172.7	351.0	262.8	192.2	156.9	131.4	113.7	100.0	98.0
45°	5696.7	4224.0	900.1	319.6	227.5	166.7	135.3	111.8	94.1	82.4	80.4
47.5°	6190.8	4469.1	682.4	292.2	198.1	145.1	115.7	94.1	78.4	68.6	66.7
50°	6977.2	4912.3	537.3	258.9	166.7	125.5	98.0	78.4	64.7	54.9	52.9
52.5°	7922.4	5577.0	460.8	229.4	143.2	109.8	84.3	64.7	52.9	45.1	43.1
55°	9008.8	6371.2	425.5	200.0	121.6	94.1	68.6	52.9	43.1	37.3	33.3
57.5°	10005.0	7087.0	423.6	170.6	103.9	80.4	56.9	45.1	37.3	29.4	27.5
60°	10975.6	7685.1	398.1	141.2	90.2	66.7	49.0	37.3	31.4	25.5	23.5
62.5°	11856.1	8171.4	333.4	113.7	76.5	54.9	41.2	33.3	27.5	21.6	21.6
65°	12962.1	8791.1	254.9	92.2	62.8	45.1	35.3	29.4	25.5	19.6	19.6
67.5°	14105.4	9118.6	182.4	76.5	51.0	39.2	31.4	27.5	21.6	17.6	17.6
70°	12775.8	7704.7	131.4	62.8	43.1	33.3	27.5	25.5	21.6	17.6	15.7
72.5°	9977.5	5555.5	98.0	49.0	37.3	31.4	25.5	23.5	19.6	15.7	15.7
75°	7398.8	3239.6	74.5	39.2	29.4	25.5	25.5	23.5	19.6	15.7	13.7
77.5°	4022.0	1129.5	56.9	31.4	23.5	19.6	21.6	21.6	17.6	13.7	11.8
80°	1064.8	309.8	39.2	23.5	19.6	15.7	15.7	19.6	15.7	11.8	11.8
82.5°	309.8	90.2	27.5	19.6	15.7	13.7	13.7	13.7	11.8	9.8	7.8
85°	151.0	33.3	19.6	15.7	13.7	11.8	9.8	9.8	7.8	5.9	5.9
87.5°	66.7	13.7	15.7	13.7	13.7	9.8	7.8	5.9	5.9	3.9	2.0
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)