

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: P638196

Luminaire Tested: GWS-SA4E-735-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638196  
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-SA4E-735-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

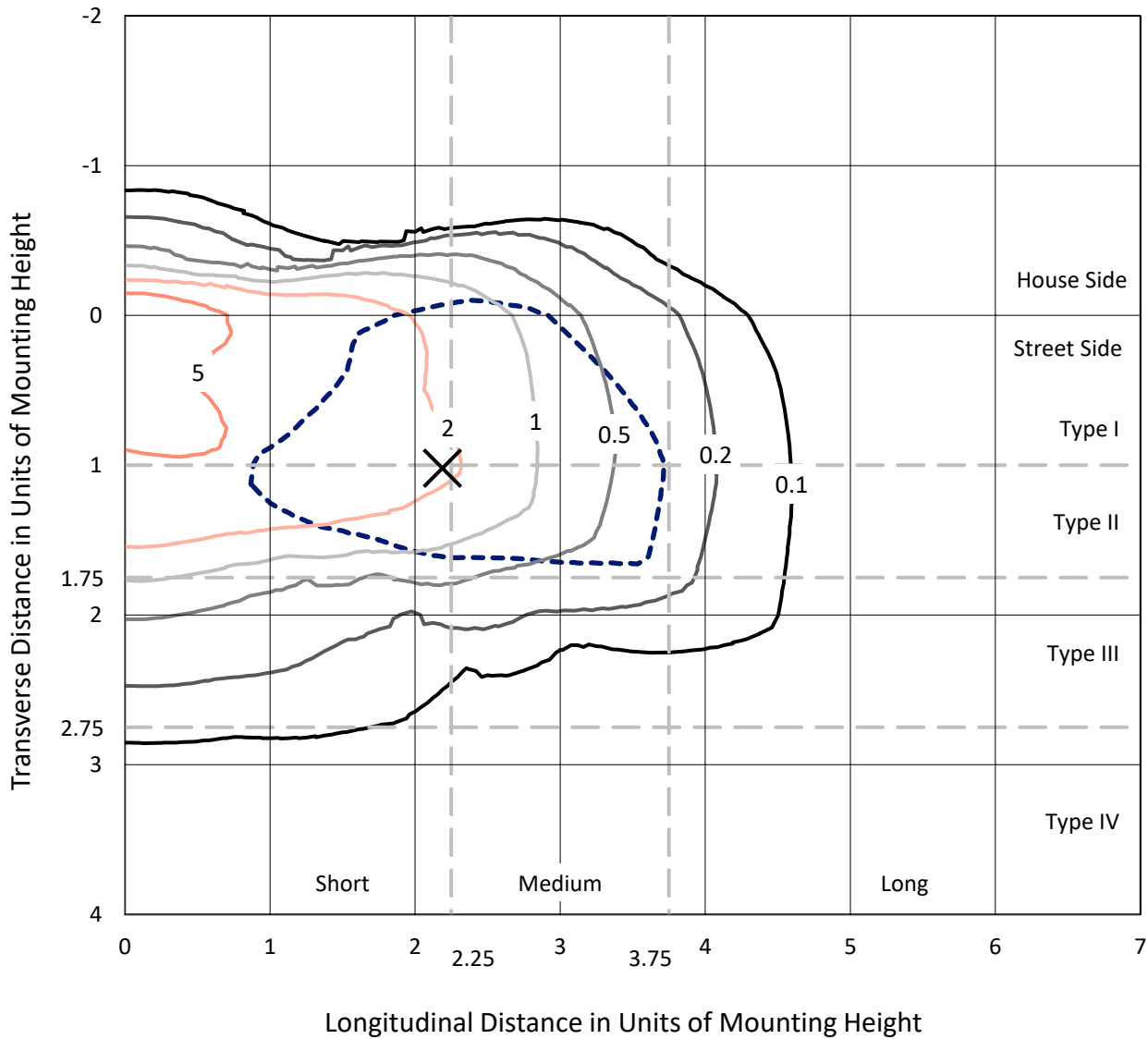
Lumens per Lamp: N/A  
Luminaire Lumens: 23926.7 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

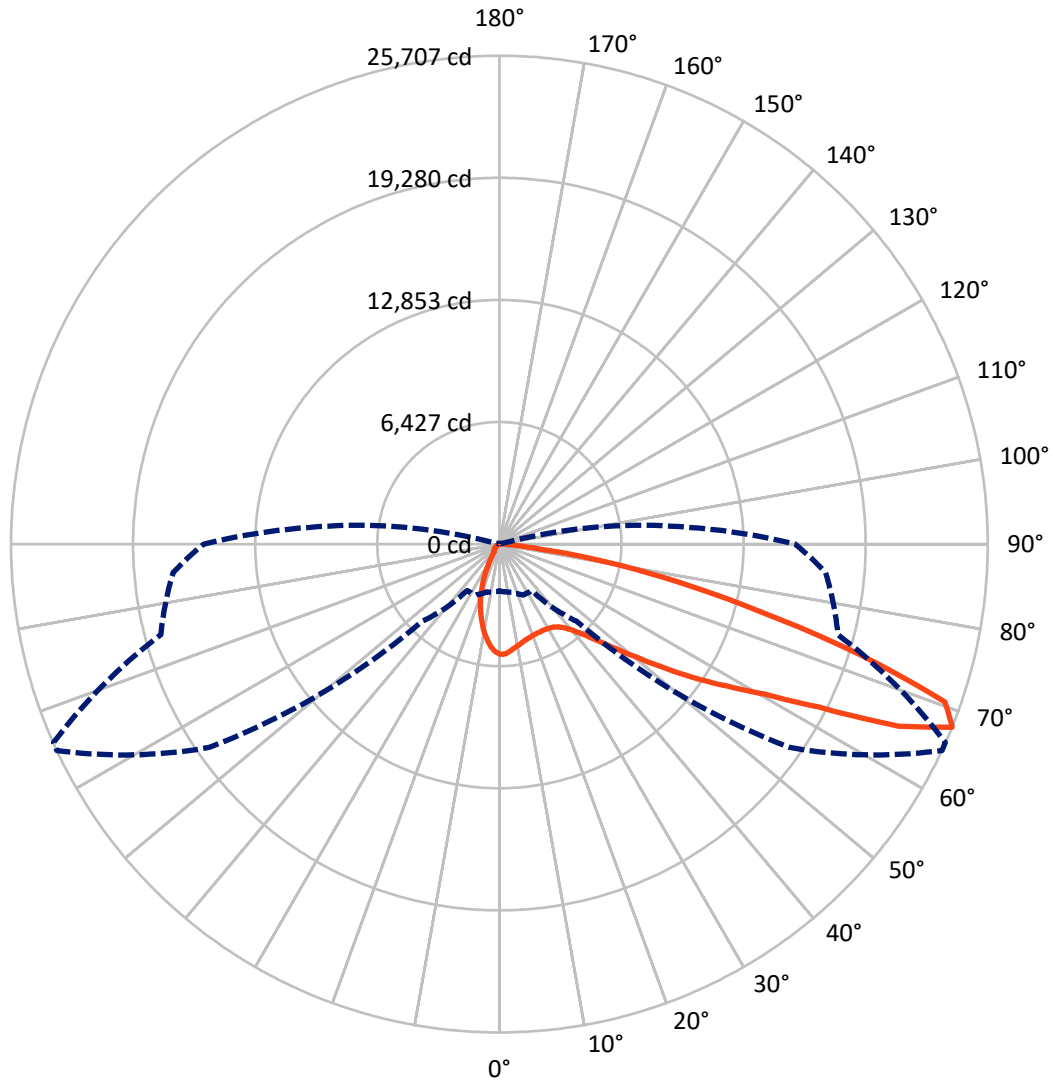
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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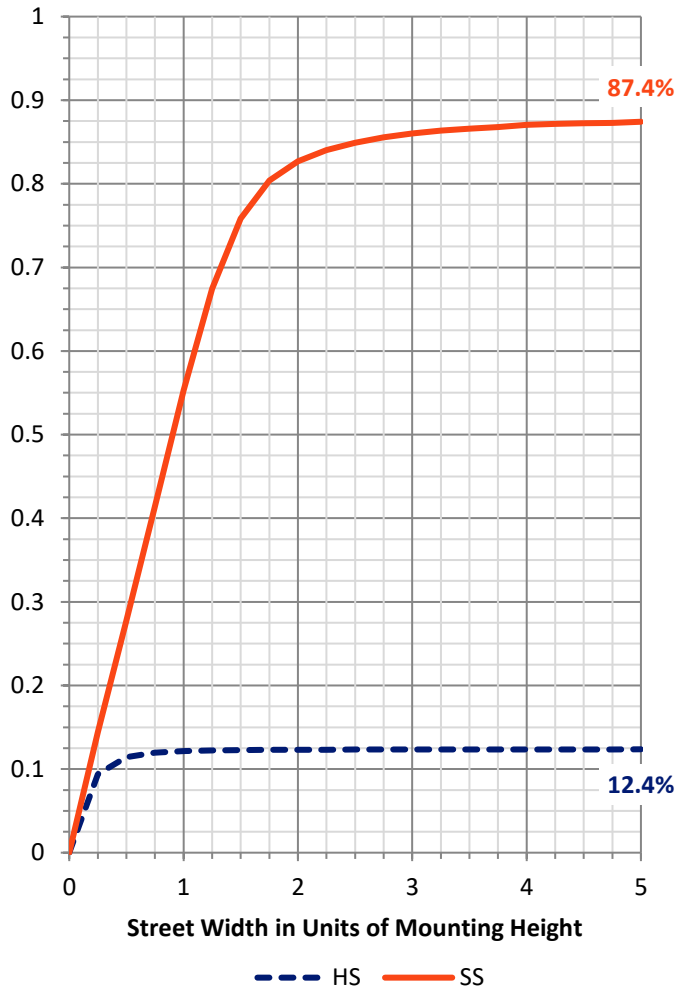
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2987.7	0.0	2987.7
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	20939.0	0.0	20939.0
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	23926.7	0.0	23926.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.0	2.0
10°-20°	1083.4	4.5
20°-30°	1548.2	6.5
30°-40°	2252.4	9.4
40°-50°	3527.6	14.7
50°-60°	5503.2	23.0
60°-70°	6045.0	25.3
70°-80°	3217.1	13.4
80°-90°	267.8	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°	23926.7	100.0
0°-180°	23926.7	100.0

**Coefficient of Utilization**

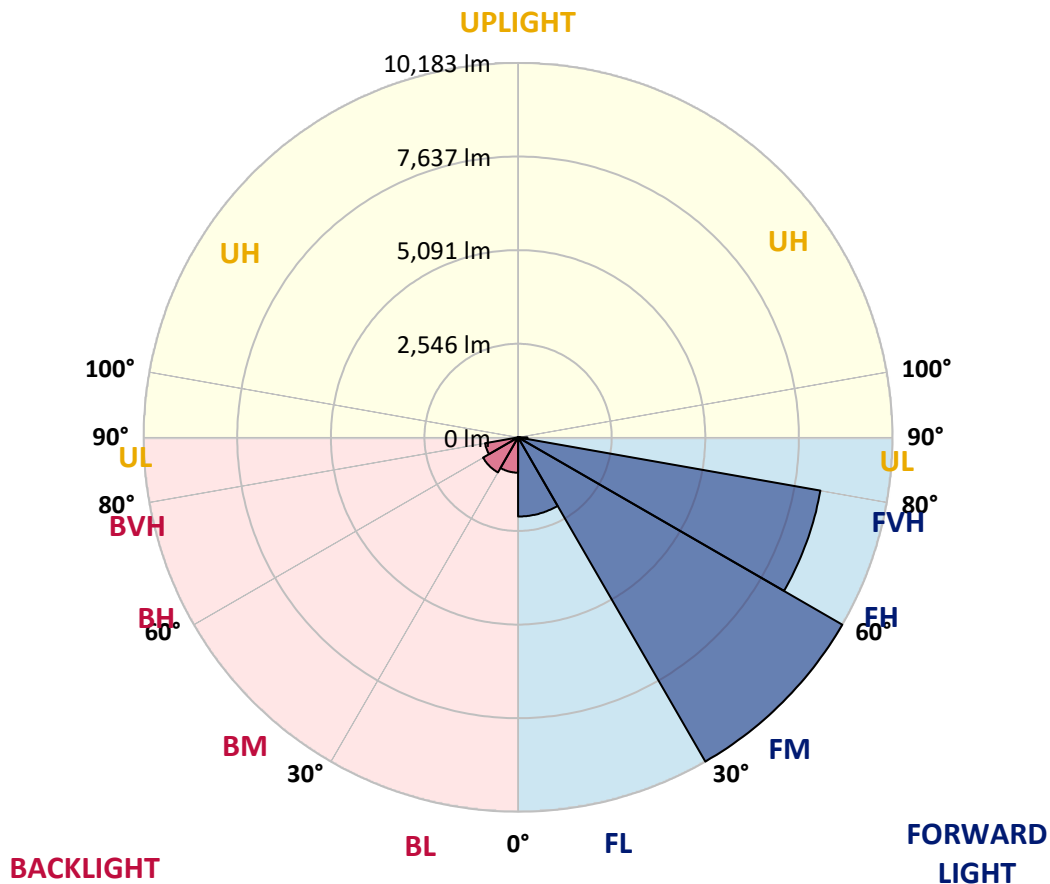


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2153.3	9.0			
FM (30°-60°)	10182.7	42.6			
FH (60°-80°)	8349.5	34.9			G4/12000
FVH (80°-90°)	253.5	1.1			G3/500
BL (0°-30°)	960.3	4.0	B2/1000		
BM (30°-60°)	1100.5	4.6	B2/2500		
BH (60°-80°)	912.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	14.3	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°	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0
2.5°	5601.8	5619.1	5595.3	5653.7	5664.5	5729.4	5766.2	5792.2	5790.0	5822.5	5822.5
5°	5272.9	5290.2	5277.2	5340.0	5389.7	5491.4	5575.8	5673.2	5677.5	5777.0	5813.8
7.5°	4993.8	4995.9	4995.9	5073.8	5138.7	5264.2	5389.7	5539.0	5556.3	5709.9	5807.3
10°	4764.4	4770.9	4773.1	4861.8	4933.2	5084.6	5244.8	5424.3	5443.8	5651.5	5803.0
12.5°	4606.5	4608.6	4617.3	4710.3	4788.2	4946.2	5108.4	5314.0	5340.0	5584.4	5783.5
15°	4530.7	4526.4	4530.7	4608.6	4686.5	4838.0	5004.6	5225.3	5253.4	5528.2	5785.7
17.5°	4526.4	4519.9	4515.6	4574.0	4623.8	4757.9	4926.7	5166.9	5197.1	5502.2	5809.5
20°	4589.2	4584.8	4563.2	4589.2	4600.0	4710.3	4876.9	5121.4	5151.7	5497.9	5861.4
22.5°	4753.6	4742.8	4710.3	4686.5	4628.1	4693.0	4842.3	5089.0	5123.6	5508.7	5928.5
25°	4998.1	4993.8	4952.7	4894.2	4744.9	4719.0	4844.5	5089.0	5121.4	5521.7	5999.9
27.5°	5365.9	5340.0	5288.0	5186.3	4972.1	4820.7	4887.7	5101.9	5134.4	5539.0	6058.3
30°	5740.2	5738.1	5720.8	5616.9	5298.8	5015.4	4978.6	5136.6	5166.9	5554.2	6112.4
32.5°	6127.5	6134.0	6177.3	6097.2	5748.9	5305.3	5143.1	5208.0	5229.6	5584.4	6160.0
35°	6495.4	6508.3	6623.0	6651.1	6296.3	5744.6	5411.4	5350.8	5352.9	5651.5	6222.7
37.5°	6848.0	6891.3	7075.2	7211.5	6977.9	6276.8	5798.7	5593.1	5575.8	5785.7	6317.9
40°	7248.3	7330.5	7562.0	7793.6	7720.0	6980.0	6326.6	5965.3	5928.5	6032.3	6488.9
42.5°	7691.9	7780.6	8087.8	8412.4	8447.0	7830.3	6986.5	6508.3	6445.6	6447.8	6809.1
45°	8167.9	8286.9	8643.9	9111.2	9321.1	8778.0	7800.1	7241.8	7179.1	7086.0	7324.0
47.5°	8793.2	8897.0	9241.1	9779.8	10182.3	9795.0	8866.7	8185.2	8070.5	7934.2	8124.6
50°	9331.9	9422.8	9719.2	10394.3	11231.6	11106.1	10076.2	9364.4	9254.0	9022.5	9180.5
52.5°	9450.9	9522.3	9795.0	10554.4	12034.4	12761.4	11558.4	10790.3	10712.4	10284.0	10344.5
55°	8916.5	9024.7	9269.2	10113.0	12244.2	14379.8	13481.9	12397.9	12235.6	11551.9	11660.0
57.5°	7566.4	7758.9	7988.3	9085.3	11675.2	15240.9	16169.1	14100.7	13953.5	12772.2	12774.3
60°	5545.5	5701.3	5854.9	6858.9	10325.1	15182.5	18607.6	16013.4	15745.1	13769.6	13732.9
62.5°	4033.1	4113.1	4111.0	4468.0	7090.4	14182.9	19888.5	18895.4	18270.1	14836.3	14626.4
65°	3171.9	3169.8	3262.8	3379.7	3959.5	10948.2	20046.5	23103.7	22428.7	16266.5	15829.5
67.5°	2468.8	2516.4	2609.4	2953.4	2975.1	5729.4	18657.4	25706.6	25693.6	18449.7	17238.0
70°	1904.0	1968.9	2100.9	2602.9	2747.9	3206.6	13960.0	24882.3	25092.1	19425.5	16240.6
72.5°	1222.5	1218.1	1412.9	2103.1	2639.7	2672.1	7720.0	19765.2	20003.2	17595.0	13131.3
75°	683.7	688.0	798.4	1287.4	2460.1	2514.2	3823.2	14094.2	14282.4	13717.7	10089.2
77.5°	268.3	277.0	374.3	677.2	1622.8	2245.9	2271.9	9611.0	9639.2	8501.1	6188.1
80°	108.2	114.7	190.4	419.8	988.8	1512.4	1622.8	5662.3	5547.7	3291.0	1800.2
82.5°	32.5	34.6	75.7	238.0	517.1	1075.3	1094.8	2172.3	2051.2	707.5	458.7
85°	2.2	2.2	17.3	73.6	183.9	270.5	729.2	707.5	627.5	177.4	203.4
87.5°	0.0	0.0	2.2	2.2	4.3	8.7	77.9	129.8	132.0	32.5	90.9
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°	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0	5803.0
2.5°	5822.5	5744.6	5738.1	5677.5	5616.9	5541.2	5452.5	5387.6	5342.1	5262.1	5246.9
5°	5813.8	5709.9	5612.6	5439.5	5246.9	5039.2	4857.5	4688.7	4582.7	4511.3	4481.0
7.5°	5796.5	5664.5	5439.5	5112.8	4790.4	4426.9	4143.4	3883.8	3706.4	3602.5	3557.1
10°	5783.5	5606.1	5240.4	4744.9	4245.1	3743.2	3312.6	2927.5	2713.2	2544.5	2516.4
12.5°	5757.5	5521.7	4985.1	4314.4	3669.6	3003.2	2453.6	1981.9	1655.2	1508.1	1456.2
15°	5731.6	5433.0	4729.8	3860.0	3042.1	2219.9	1553.5	1099.1	874.1	804.9	800.6
17.5°	5727.2	5352.9	4452.8	3429.4	2384.4	1454.0	884.9	711.8	664.2	646.9	646.9
20°	5740.2	5285.9	4180.2	2933.9	1737.4	884.9	659.9	616.6	588.5	573.4	573.4
22.5°	5753.2	5216.6	3918.4	2434.1	1153.2	646.9	582.0	545.2	512.8	495.5	486.8
25°	5761.9	5140.9	3628.5	1932.2	753.0	562.6	510.6	463.0	424.1	402.4	402.4
27.5°	5759.7	5050.0	3336.4	1441.0	584.2	499.8	437.1	387.3	348.4	324.6	326.7
30°	5742.4	4950.5	3033.5	1006.1	510.6	437.1	374.3	322.4	283.4	264.0	261.8
32.5°	5729.4	4844.5	2683.0	707.5	458.7	383.0	318.1	268.3	235.8	220.7	218.5
35°	5714.3	4740.6	2349.8	538.8	413.3	331.0	268.3	227.2	201.2	188.2	188.2
37.5°	5718.6	4632.4	1988.4	463.0	367.8	287.8	229.3	194.7	173.1	160.1	157.9
40°	5785.7	4567.5	1633.6	419.8	326.7	248.8	199.1	168.8	147.1	134.1	132.0
42.5°	5952.3	4569.7	1293.9	387.3	289.9	212.0	173.1	145.0	125.5	110.3	108.2
45°	6285.5	4660.6	993.1	352.7	251.0	183.9	149.3	123.3	103.9	90.9	88.7
47.5°	6830.7	4931.0	753.0	322.4	218.5	160.1	127.7	103.9	86.5	75.7	73.6
50°	7698.4	5420.0	592.8	285.6	183.9	138.5	108.2	86.5	71.4	60.6	58.4
52.5°	8741.3	6153.5	508.5	253.2	157.9	121.2	93.0	71.4	58.4	49.8	47.6
55°	9939.9	7029.8	469.5	220.7	134.1	103.9	75.7	58.4	47.6	41.1	36.8
57.5°	11039.1	7819.5	467.4	188.2	114.7	88.7	62.7	49.8	41.1	32.5	30.3
60°	12110.1	8479.4	439.2	155.8	99.5	73.6	54.1	41.1	34.6	28.1	26.0
62.5°	13081.6	9016.0	367.8	125.5	84.4	60.6	45.4	36.8	30.3	23.8	23.8
65°	14301.9	9699.8	281.3	101.7	69.2	49.8	38.9	32.5	28.1	21.6	21.6
67.5°	15563.3	10061.1	201.2	84.4	56.3	43.3	34.6	30.3	23.8	19.5	19.5
70°	14096.3	8501.1	145.0	69.2	47.6	36.8	30.3	28.1	23.8	19.5	17.3
72.5°	11008.8	6129.7	108.2	54.1	41.1	34.6	28.1	26.0	21.6	17.3	17.3
75°	8163.5	3574.4	82.2	43.3	32.5	28.1	28.1	26.0	21.6	17.3	15.1
77.5°	4437.7	1246.3	62.7	34.6	26.0	21.6	23.8	23.8	19.5	15.1	13.0
80°	1174.9	341.9	43.3	26.0	21.6	17.3	17.3	21.6	17.3	13.0	13.0
82.5°	341.9	99.5	30.3	21.6	17.3	15.1	15.1	15.1	13.0	10.8	8.7
85°	166.6	36.8	21.6	17.3	15.1	13.0	10.8	10.8	8.7	6.5	6.5
87.5°	73.6	15.1	17.3	15.1	15.1	10.8	8.7	6.5	6.5	4.3	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)