

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: P638710

Luminaire Tested: GWS-SA4F-735-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638710  
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-SA4F-735-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

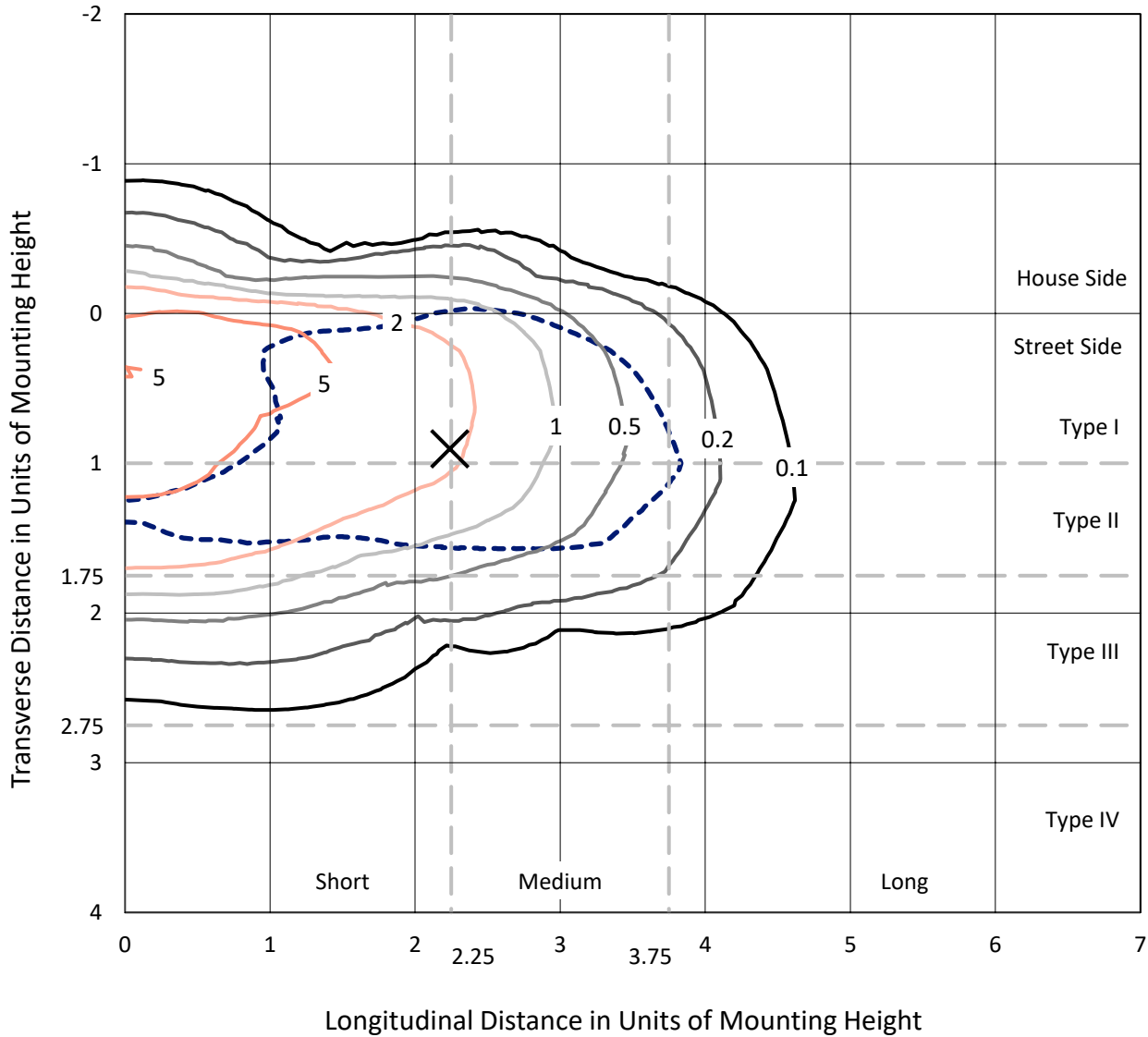
Lumens per Lamp: N/A  
Luminaire Lumens: 25137.1 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

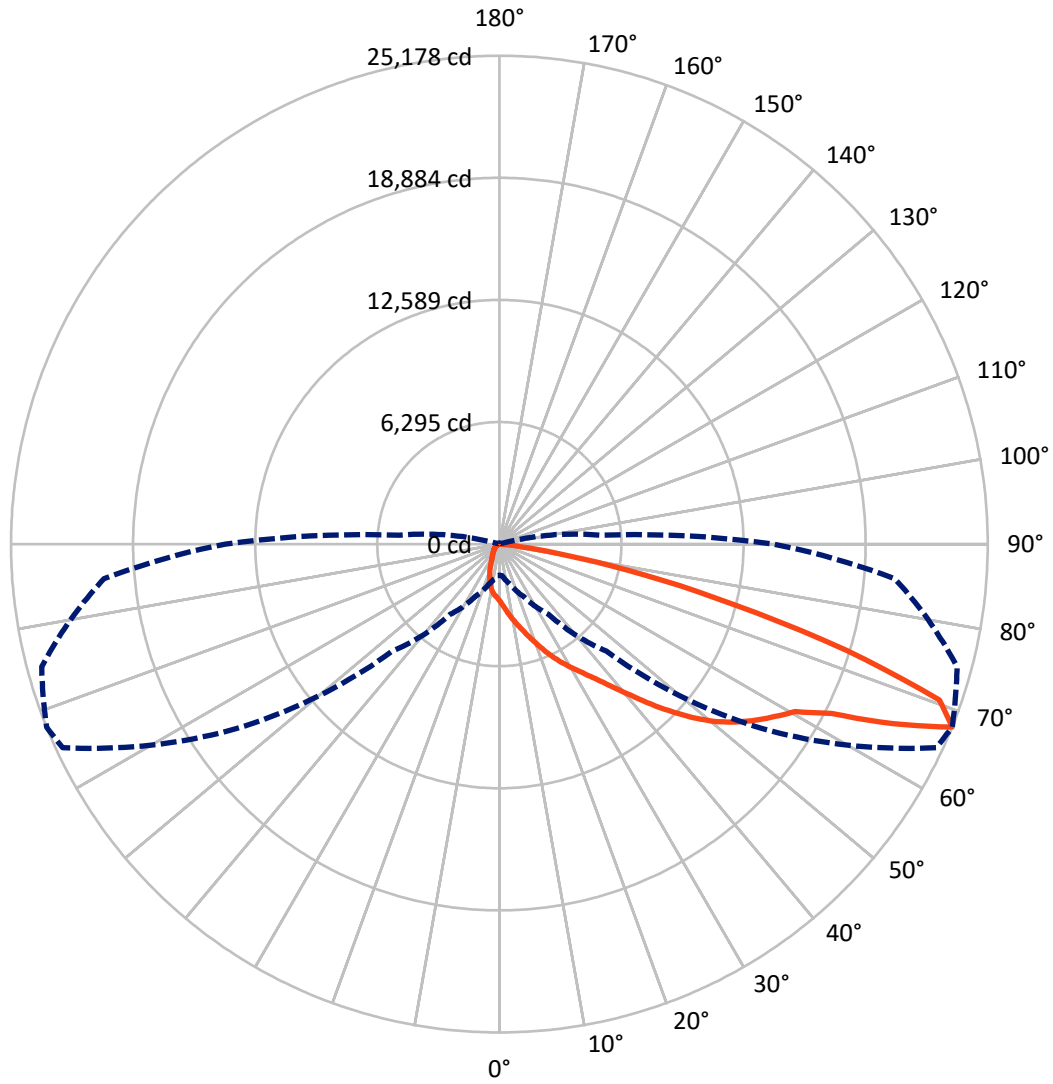
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P638710  
CATALOG NUMBER: GWS-SA4F-735-U-T2-W-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA4F-735-U-T2-W-HSS

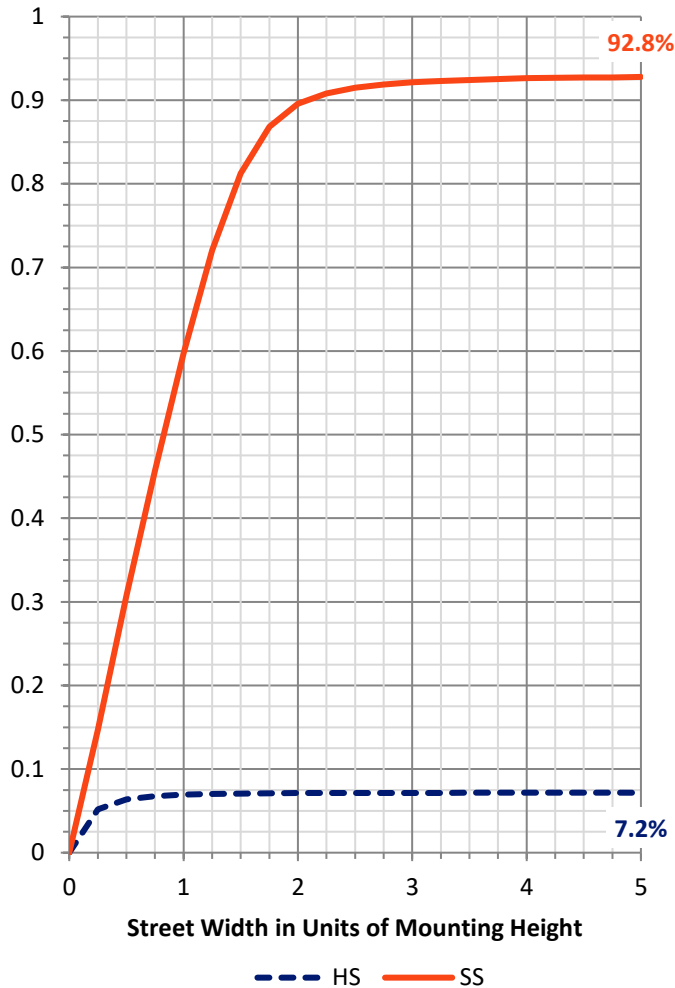
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1815.2	0.0	1815.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	23321.9	0.0	23321.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	25137.1	0.0	25137.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.3	1.1
10°-20°	819.3	3.3
20°-30°	1408.0	5.6
30°-40°	2448.0	9.7
40°-50°	4271.5	17.0
50°-60°	6442.5	25.6
60°-70°	6460.1	25.7
70°-80°	2850.2	11.3
80°-90°	152.3	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°	25137.1	100.0
0°-180°	25137.1	100.0

**Coefficient of Utilization**



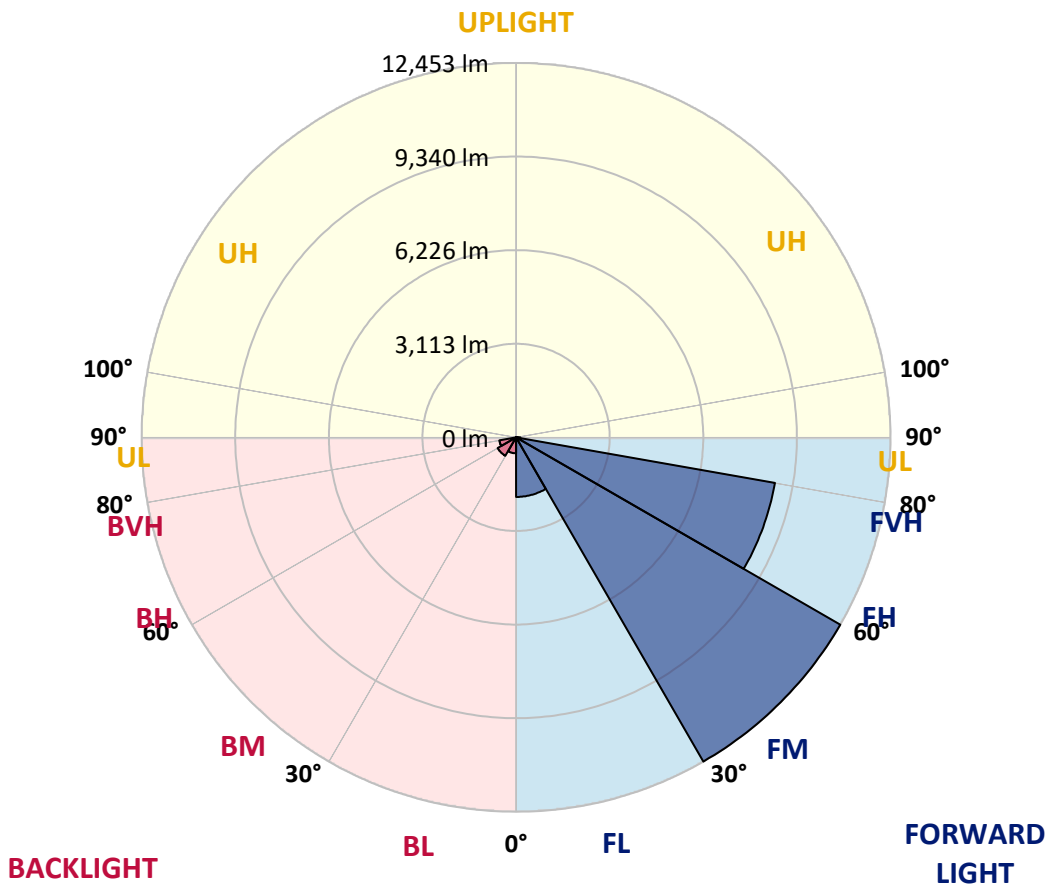
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CATALOG NUMBER: GWS-SA4F-735-U-T2-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1981.6	7.9			
FM (30°-60°)	12452.9	49.5			
FH (60°-80°)	8743.8	34.8			G4/12000
FVH (80°-90°)	143.7	0.6			G2/225
BL (0°-30°)	531.0	2.1	B2/1000		
BM (30°-60°)	709.0	2.8	B1/1000		
BH (60°-80°)	566.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.6	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 II Short





REPORT NUMBER: P638710

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3
2.5°	3406.5	3428.1	3406.5	3411.3	3348.7	3319.9	3257.3	3170.7	3149.0	3093.7	3009.5
5°	3822.6	3841.9	3820.2	3815.4	3743.3	3690.3	3586.9	3437.7	3394.4	3286.2	3120.2
7.5°	4048.8	4060.8	4068.0	4080.1	4053.6	4010.3	3916.5	3731.2	3685.5	3509.9	3276.6
10°	4072.8	4082.5	4118.5	4190.7	4243.6	4270.1	4217.2	4046.4	3974.2	3803.4	3469.0
12.5°	4005.5	4019.9	4077.6	4197.9	4344.7	4479.4	4513.1	4363.9	4299.0	4080.1	3695.1
15°	3916.5	3928.5	4007.9	4171.5	4392.8	4640.6	4780.1	4715.2	4643.0	4414.4	3945.3
17.5°	3779.3	3796.2	3906.8	4128.2	4414.4	4768.1	5068.8	5090.4	5039.9	4792.1	4222.0
20°	3702.4	3714.4	3813.0	4041.6	4400.0	4861.9	5338.2	5542.7	5487.4	5227.6	4539.5
22.5°	3767.3	3776.9	3841.9	4019.9	4351.9	4914.8	5588.4	5995.0	5963.7	5694.3	4873.9
25°	4108.9	4140.2	4101.7	4133.0	4373.5	4943.7	5790.5	6447.2	6454.5	6182.6	5220.3
27.5°	4801.8	4760.9	4669.4	4513.1	4541.9	5020.7	5963.7	6873.1	6935.6	6659.0	5528.3
30°	5506.6	5482.6	5427.2	5184.3	4982.2	5191.5	6110.5	7308.5	7407.1	7128.1	5802.5
32.5°	6298.1	6322.2	6223.5	5932.4	5588.4	5537.9	6262.0	7722.3	7907.5	7659.7	6124.9
35°	7243.5	7250.8	7055.9	6733.5	6343.8	6110.5	6533.9	8179.3	8521.0	8338.1	6555.5
37.5°	8164.9	8208.2	8102.4	7594.8	7248.3	6822.5	6983.7	8766.3	9247.5	9175.3	7096.8
40°	8980.4	9047.8	9014.1	8523.4	8068.7	7710.2	7681.4	9454.4	10125.6	10207.3	7811.3
42.5°	9630.0	9673.3	9699.7	9350.9	8949.2	8747.1	8542.6	10253.1	11162.4	11496.8	8686.9
45°	10315.6	10330.0	10385.4	10149.6	9798.4	9815.2	9560.2	11222.5	12254.6	12925.8	9692.5
47.5°	11188.9	11237.0	11210.5	10962.7	10645.2	10835.2	10611.5	12220.9	13332.3	14451.0	10722.2
50°	12252.2	12302.7	12278.6	11990.0	11636.3	11715.7	11576.2	13190.4	14371.6	15889.6	11578.6
52.5°	12800.7	12841.6	13139.9	13269.8	13084.5	12579.4	12398.9	14256.1	15249.7	17073.2	12365.2
55°	12536.1	12564.9	13214.5	13763.0	14441.4	13936.2	13226.5	15078.9	16024.3	17997.0	12949.8
57.5°	11439.1	11595.4	12478.3	13406.9	14833.5	15276.1	14568.9	15973.8	16770.1	18639.3	13524.8
60°	9189.7	9182.5	10447.9	12115.1	14068.5	15644.2	16464.5	17183.8	17518.2	19132.5	14294.6
62.5°	5078.4	5124.1	6808.1	9004.5	11941.8	14691.6	17886.3	19274.4	19223.9	19993.7	15499.9
65°	2528.4	2619.8	3534.0	5157.8	7946.0	12141.5	18131.7	22464.3	22320.0	22021.7	17989.8
67.5°	1604.6	1640.7	2145.9	2997.5	4416.8	7804.1	16604.1	24843.6	25178.0	24427.4	20460.4
70°	1039.3	1099.4	1491.5	2049.6	2665.5	4022.3	12163.2	23301.5	24068.9	24162.8	18920.8
72.5°	565.3	608.6	952.7	1462.7	1924.6	2011.2	6832.2	17487.0	18721.1	20496.5	14802.2
75°	322.4	353.6	522.0	993.6	1412.1	1224.5	3028.8	11706.1	12492.7	14648.2	10606.7
77.5°	194.9	221.3	293.5	483.5	885.3	817.9	1145.1	7125.7	7626.0	8739.9	5566.8
80°	89.0	105.9	185.2	267.0	483.5	387.3	437.8	3322.3	3430.5	3586.9	1842.8
82.5°	40.9	48.1	84.2	158.8	274.2	223.7	168.4	767.4	1080.2	1022.4	469.1
85°	4.8	4.8	31.3	65.0	77.0	57.7	69.8	173.2	218.9	307.9	134.7
87.5°	0.0	0.0	2.4	2.4	4.8	7.2	14.4	21.7	31.3	50.5	33.7
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°	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3
2.5°	2971.0	2903.7	2843.5	2754.5	2694.4	2627.0	2581.3	2526.0	2504.3	2487.5	2463.4
5°	3038.4	2930.1	2783.4	2619.8	2485.1	2357.6	2239.7	2162.7	2095.4	2085.7	2052.1
7.5°	3149.0	2987.9	2740.1	2473.0	2244.5	2032.8	1866.8	1732.1	1664.7	1643.1	1604.6
10°	3295.8	3074.5	2675.1	2266.2	1936.6	1684.0	1496.3	1344.8	1238.9	1200.4	1171.6
12.5°	3459.4	3153.9	2571.7	2011.2	1635.9	1347.2	1109.0	947.8	880.5	856.4	834.8
15°	3647.0	3228.4	2408.1	1756.2	1342.4	991.1	822.7	753.0	724.1	716.9	709.7
17.5°	3827.5	3276.6	2213.2	1491.5	1032.0	769.8	690.4	664.0	656.8	649.5	644.7
20°	4031.9	3310.2	1984.7	1241.3	801.1	651.9	613.5	594.2	579.8	565.3	562.9
22.5°	4241.2	3310.2	1736.9	996.0	671.2	584.6	541.3	505.2	478.7	464.3	459.5
25°	4440.9	3264.5	1491.5	796.3	591.8	519.6	464.3	423.4	387.3	370.5	365.7
27.5°	4582.8	3146.6	1277.4	673.6	536.5	461.9	394.5	348.8	320.0	303.1	300.7
30°	4671.9	2971.0	1080.2	601.4	488.4	401.8	334.4	295.9	274.2	262.2	257.4
32.5°	4739.2	2754.5	904.5	550.9	442.6	348.8	291.1	259.8	240.6	230.9	228.5
35°	4873.9	2550.0	774.6	505.2	394.5	305.5	255.0	230.9	216.5	204.5	202.1
37.5°	5061.6	2379.2	671.2	464.3	348.8	271.8	230.9	209.3	197.3	185.2	182.8
40°	5338.2	2271.0	594.2	423.4	307.9	245.4	211.7	192.5	175.6	163.6	161.2
42.5°	5764.0	2220.5	543.7	382.5	271.8	221.3	194.9	170.8	154.0	141.9	139.5
45°	6271.6	2246.9	500.4	341.6	247.8	204.5	173.2	149.2	132.3	120.3	117.9
47.5°	6815.3	2340.7	464.3	303.1	223.7	187.6	154.0	127.5	113.1	101.0	98.6
50°	7383.1	2494.7	433.0	267.0	204.5	168.4	132.3	110.7	96.2	86.6	84.2
52.5°	7876.2	2704.0	401.8	240.6	187.6	149.2	115.5	96.2	81.8	72.2	69.8
55°	8347.7	2901.3	377.7	216.5	168.4	129.9	101.0	81.8	69.8	60.1	57.7
57.5°	8860.2	3110.6	348.8	194.9	151.6	115.5	89.0	69.8	60.1	50.5	48.1
60°	9605.9	3420.9	305.5	178.0	132.3	101.0	77.0	62.5	52.9	40.9	38.5
62.5°	10681.3	3986.2	257.4	154.0	113.1	86.6	65.0	52.9	43.3	33.7	28.9
65°	12692.4	4948.5	211.7	127.5	91.4	72.2	55.3	43.3	33.7	24.1	21.7
67.5°	14140.6	5198.7	170.8	103.4	74.6	55.3	45.7	33.7	24.1	16.8	14.4
70°	12362.8	3733.6	132.3	84.2	62.5	43.3	36.1	26.5	16.8	12.0	9.6
72.5°	9314.8	2439.4	98.6	65.0	48.1	36.1	26.5	21.7	14.4	9.6	7.2
75°	6565.1	1409.7	72.2	48.1	33.7	26.5	21.7	16.8	12.0	7.2	7.2
77.5°	3365.6	582.2	50.5	33.7	24.1	16.8	14.4	9.6	9.6	7.2	4.8
80°	1022.4	192.5	28.9	21.7	16.8	12.0	7.2	7.2	7.2	4.8	2.4
82.5°	233.4	62.5	16.8	16.8	12.0	9.6	7.2	2.4	2.4	0.0	0.0
85°	60.1	19.2	14.4	12.0	12.0	9.6	4.8	2.4	0.0	0.0	0.0
87.5°	21.7	12.0	12.0	12.0	9.6	7.2	4.8	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)