

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: P637375

Luminaire Tested: GWS-SA4C-760-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637375  
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-SA4C-760-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

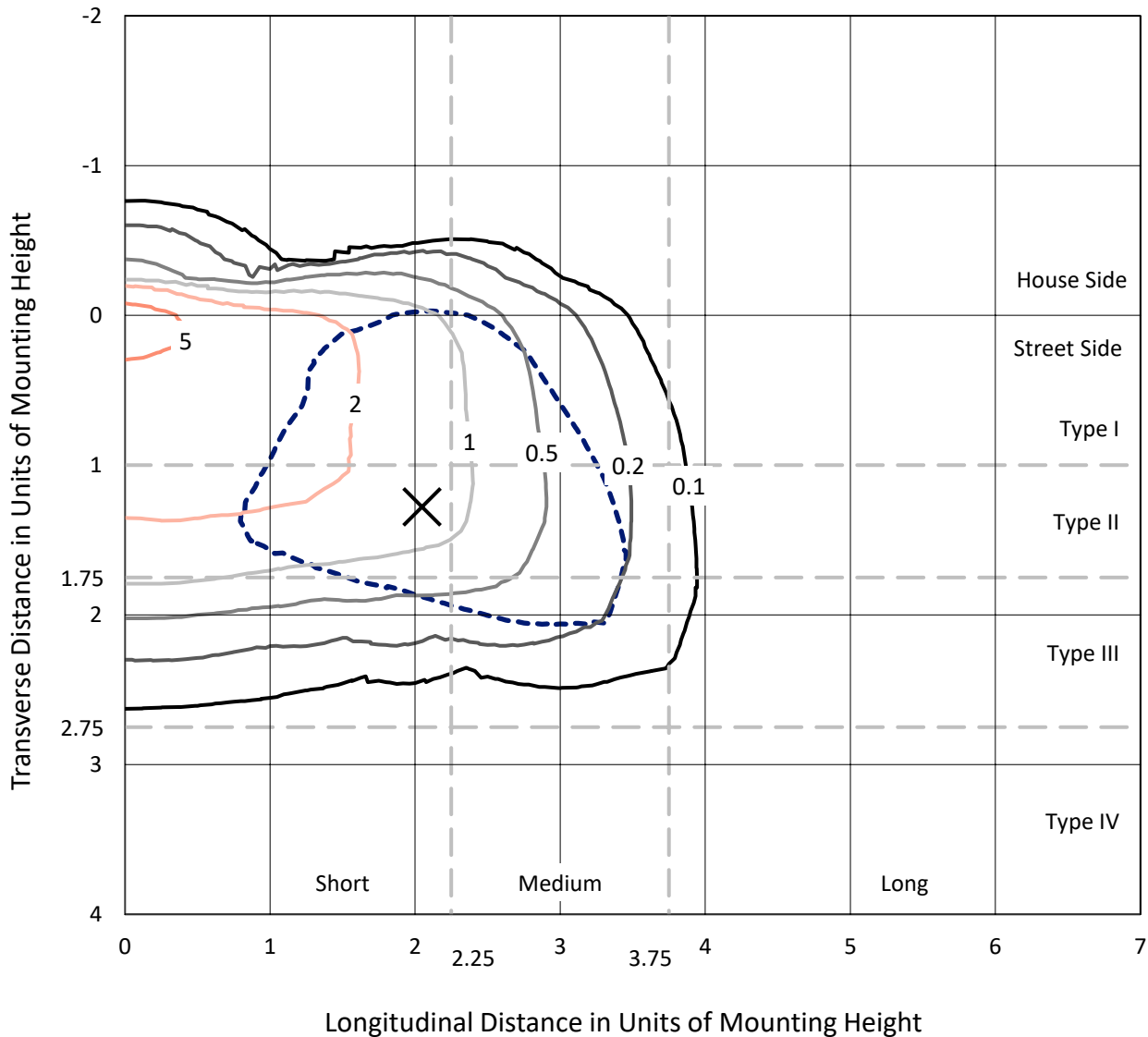
Lumens per Lamp: N/A  
Luminaire Lumens: 15861.8 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

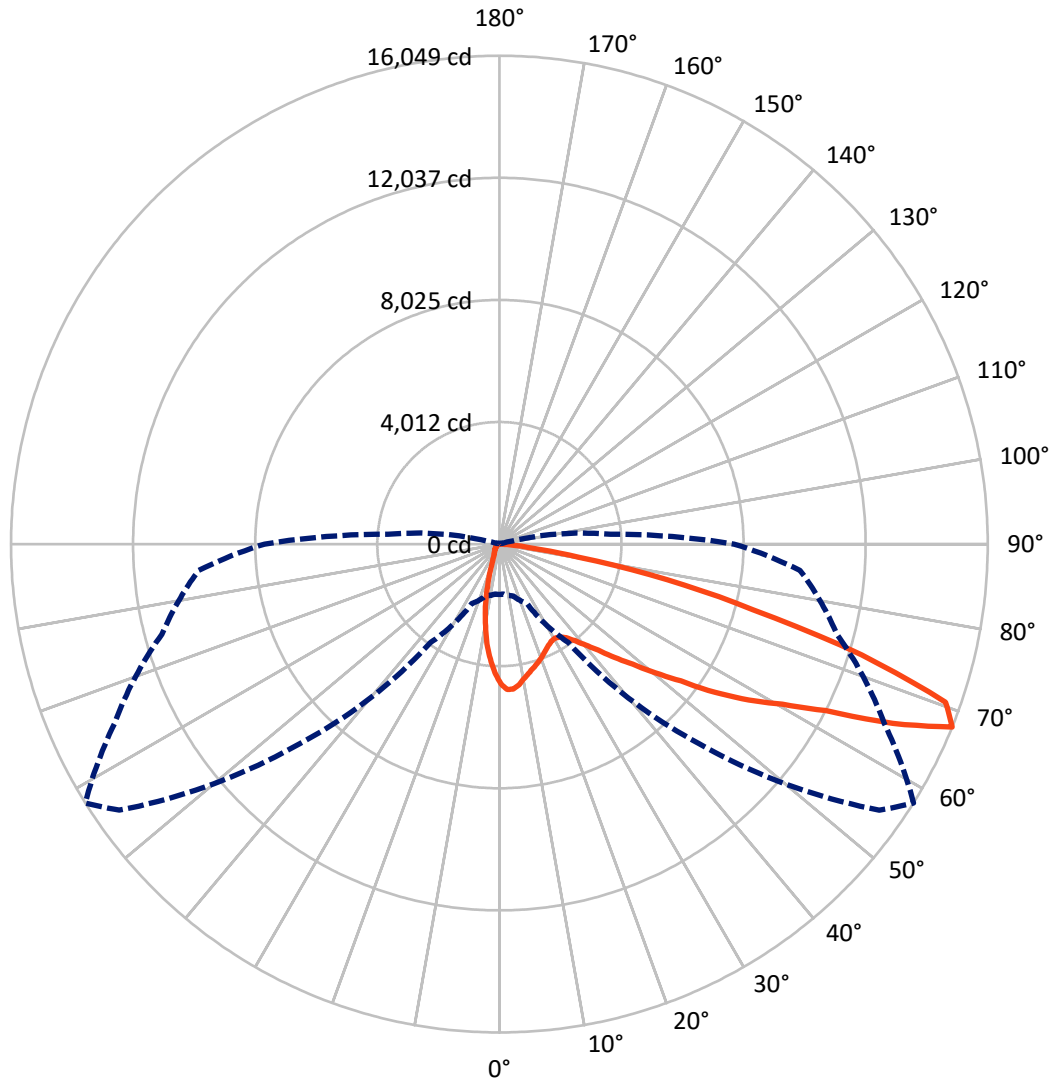
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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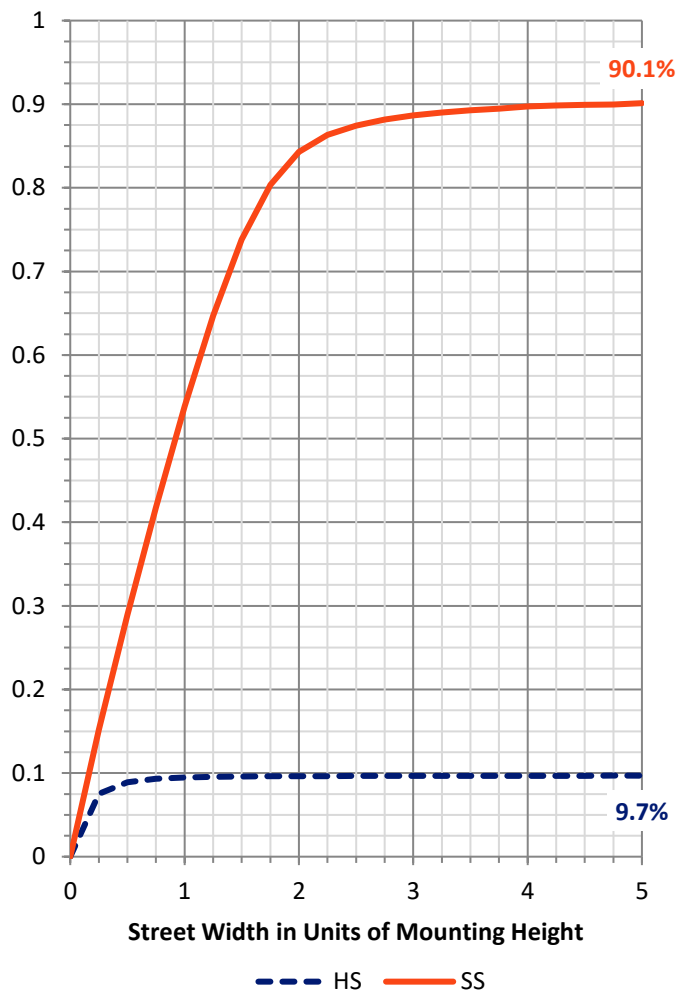
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1549.6	0.0	1549.6
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	14312.2	0.0	14312.2
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	15861.8	0.0	15861.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.8	2.3
10°-20°	773.9	4.9
20°-30°	1043.7	6.6
30°-40°	1466.6	9.2
40°-50°	2265.0	14.3
50°-60°	3622.1	22.8
60°-70°	4288.8	27.0
70°-80°	1897.2	12.0
80°-90°	132.6	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°	15861.8	100.0
0°-180°	15861.8	100.0

**Coefficient of Utilization**



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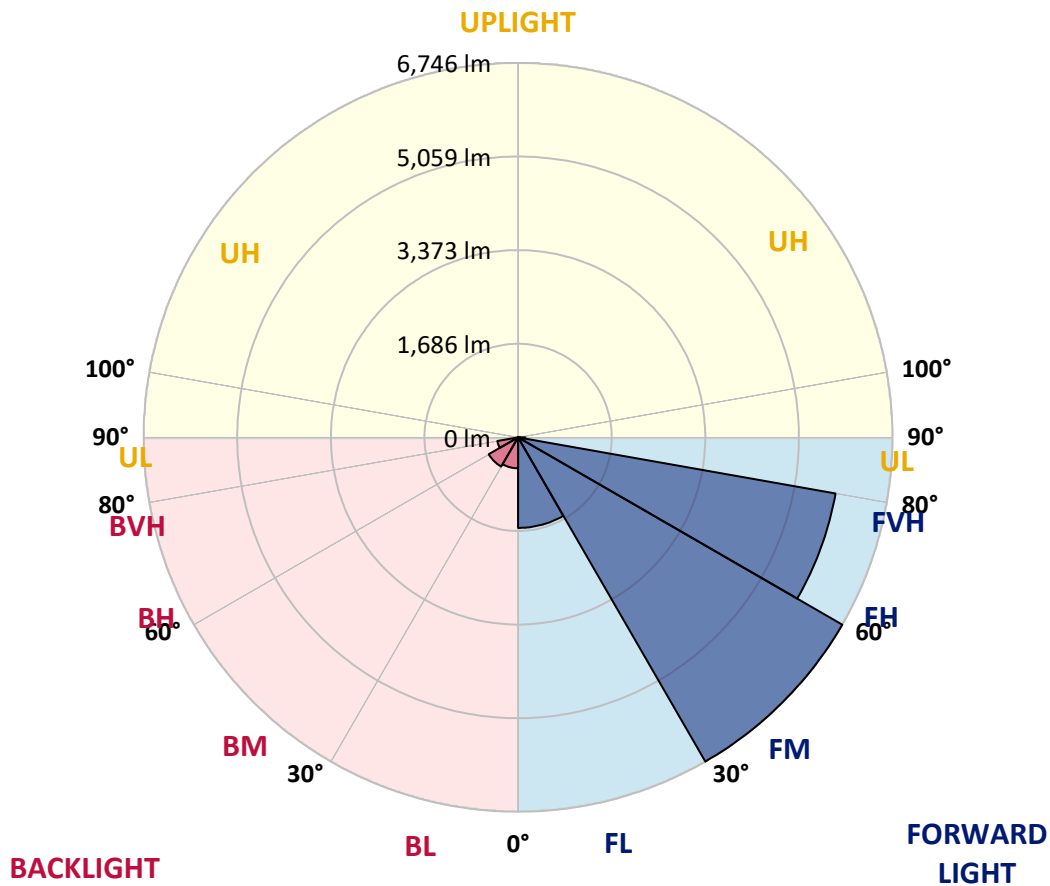
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.8	10.3			
FM (30°-60°)	6745.7	42.5			
FH (60°-80°)	5807.7	36.6			G3/7500
FVH (80°-90°)	127.0	0.8			G2/225
BL (0°-30°)	557.6	3.5	B2/1000		
BM (30°-60°)	608.0	3.8	B1/1000		
BH (60°-80°)	378.3	2.4	B1/500		G1/500
BVH (80°-90°)	5.6	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3
2.5°	4812.5	4821.0	4832.2	4846.2	4843.4	4830.8	4815.4	4780.3	4757.8	4687.6	4602.0
5°	4658.1	4656.7	4684.8	4711.5	4759.2	4784.5	4819.6	4787.3	4776.0	4691.8	4552.8
7.5°	4356.3	4371.7	4404.0	4446.1	4514.9	4589.3	4673.6	4663.7	4697.4	4641.3	4468.6
10°	4060.1	4051.6	4102.2	4165.4	4270.6	4366.1	4488.2	4486.8	4575.3	4569.7	4373.1
12.5°	3800.3	3798.9	3838.2	3909.8	4033.4	4166.8	4332.4	4336.6	4446.1	4491.1	4291.7
15°	3581.3	3584.1	3622.0	3696.5	3824.2	3987.1	4179.4	4214.5	4338.0	4429.3	4211.7
17.5°	3425.5	3426.9	3449.4	3513.9	3638.9	3813.0	4044.6	4092.3	4251.0	4383.0	4147.1
20°	3353.9	3348.3	3352.5	3384.8	3481.7	3640.3	3907.0	3968.8	4171.0	4350.7	4088.1
22.5°	3363.7	3355.3	3335.6	3331.4	3375.0	3495.7	3761.0	3836.8	4083.9	4331.0	4034.8
25°	3450.8	3432.5	3404.4	3362.3	3345.5	3405.8	3633.3	3711.9	4002.5	4332.4	3994.1
27.5°	3584.1	3564.5	3529.4	3473.2	3407.2	3382.0	3546.2	3620.6	3944.9	4364.7	3974.4
30°	3754.0	3738.6	3704.9	3637.5	3549.0	3445.2	3528.0	3589.8	3916.9	4430.7	3982.8
32.5°	3954.8	3943.5	3915.5	3853.7	3752.6	3594.0	3589.8	3637.5	3939.3	4526.2	4015.1
35°	4148.5	4152.7	4154.1	4120.4	4012.3	3820.0	3759.6	3776.5	4032.0	4669.3	4088.1
37.5°	4357.7	4347.9	4398.4	4422.3	4318.4	4113.4	4022.2	4023.6	4208.9	4881.3	4225.7
40°	4516.3	4519.1	4628.6	4726.9	4683.4	4485.4	4354.9	4353.5	4481.2	5171.9	4447.5
42.5°	4665.1	4683.4	4844.8	5013.3	5073.7	4898.2	4804.1	4769.0	4863.1	5565.0	4780.3
45°	4823.8	4850.5	5076.5	5316.5	5475.2	5371.3	5296.9	5310.9	5322.2	6022.7	5228.1
47.5°	5009.1	5025.9	5305.3	5643.7	5939.9	5913.2	5917.4	5900.6	5894.9	6599.7	5820.5
50°	5233.7	5273.0	5594.5	5998.8	6403.2	6580.0	6639.0	6646.0	6554.8	7228.6	6434.0
52.5°	5711.0	5758.8	6033.9	6387.7	6908.6	7280.6	7520.7	7472.9	7332.5	7837.9	7106.5
55°	6274.0	6310.5	6575.8	6942.3	7526.3	8048.5	8618.5	8598.8	8254.9	8479.5	7659.6
57.5°	6327.3	6368.1	6779.4	7341.0	8319.5	8997.6	9597.0	9660.2	9156.2	8934.4	8153.8
60°	5727.9	5810.7	6372.3	7127.6	8622.7	10273.7	10669.6	10682.2	9817.4	9396.3	8757.5
62.5°	4590.7	4630.0	5195.8	6181.3	8155.2	11017.8	12307.9	12041.2	10666.8	10110.8	9713.5
65°	2406.3	2566.3	3059.1	4149.9	6613.7	10758.0	14279.0	14206.0	12194.2	11134.3	10457.6
67.5°	1651.0	1649.6	1766.1	2163.4	3943.5	9262.9	15246.3	16049.3	13960.3	11485.2	9918.5
70°	1256.5	1260.7	1364.6	1622.9	2042.7	6165.9	14184.9	15557.9	14288.8	10428.1	8021.8
72.5°	833.9	842.3	1015.0	1311.2	1631.3	3022.6	11023.4	12448.3	12022.9	8375.6	5646.5
75°	498.4	505.4	628.9	953.2	1450.2	1691.7	7004.0	8605.9	8275.9	5772.8	3026.8
77.5°	205.0	210.6	322.9	593.8	1061.3	1314.0	3873.3	5631.0	4957.1	2295.4	826.9
80°	85.6	88.4	155.8	415.6	765.1	824.1	1794.2	2646.3	2031.4	494.2	252.7
82.5°	30.9	32.3	57.6	228.8	475.9	620.5	905.5	1045.9	572.8	161.4	136.2
85°	1.4	1.4	14.0	77.2	181.1	175.5	518.0	501.2	189.5	67.4	81.4
87.5°	0.0	0.0	1.4	1.4	2.8	7.0	49.1	87.0	40.7	16.8	35.1
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°	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3
2.5°	4545.8	4471.4	4390.0	4314.2	4193.4	4121.8	4033.4	3994.1	3937.9	3923.9	3932.3
5°	4453.1	4325.4	4130.3	3953.4	3724.5	3540.6	3355.3	3276.7	3175.6	3108.2	3080.1
7.5°	4322.6	4155.5	3850.9	3529.4	3214.9	2879.4	2623.9	2455.4	2302.4	2218.2	2201.3
10°	4190.6	3973.0	3536.4	3075.9	2588.8	2187.3	1841.9	1586.4	1378.6	1284.6	1211.6
12.5°	4054.4	3783.5	3216.3	2615.5	2049.7	1502.2	1075.4	826.9	678.1	619.1	628.9
15°	3929.5	3601.0	2899.0	2155.0	1443.2	906.9	593.8	501.2	466.1	454.9	453.5
17.5°	3810.2	3428.3	2583.2	1707.1	951.8	555.9	454.9	432.4	422.6	417.0	417.0
20°	3702.1	3262.6	2274.3	1286.0	614.9	440.8	411.3	400.1	391.7	387.5	387.5
22.5°	3601.0	3102.6	1972.5	909.7	453.5	395.9	377.6	366.4	356.6	351.0	351.0
25°	3509.7	2958.0	1684.7	626.1	390.3	362.2	342.5	329.9	313.1	303.2	303.2
27.5°	3443.7	2828.8	1408.1	456.3	352.4	325.7	303.2	286.4	268.1	256.9	254.1
30°	3404.4	2719.3	1128.7	374.8	317.3	290.6	265.3	244.3	223.2	212.0	210.6
32.5°	3382.0	2618.3	873.2	327.1	287.8	256.9	228.8	206.4	185.3	172.7	171.3
35°	3390.4	2539.6	654.2	294.8	259.7	227.4	196.5	174.1	155.8	144.6	141.8
37.5°	3463.4	2504.5	491.4	269.5	235.9	202.2	169.9	148.8	132.0	123.5	122.1
40°	3605.2	2511.6	386.1	249.9	216.2	176.9	146.0	126.4	113.7	106.7	105.3
42.5°	3825.6	2570.5	318.7	233.0	195.1	154.4	126.4	110.9	98.3	91.3	89.8
45°	4154.1	2692.7	278.0	213.4	172.7	133.4	109.5	95.5	84.2	75.8	74.4
47.5°	4630.0	2904.7	251.3	195.1	153.0	115.1	94.1	80.0	70.2	63.2	61.8
50°	5136.8	3158.8	228.8	176.9	136.2	99.7	80.0	66.0	57.6	50.5	49.1
52.5°	5677.3	3432.5	212.0	160.0	120.7	85.6	67.4	54.8	46.3	39.3	37.9
55°	6196.8	3707.7	192.3	148.8	102.5	73.0	56.2	44.9	36.5	30.9	30.9
57.5°	6702.2	3960.4	171.3	130.6	84.2	61.8	46.3	36.5	29.5	25.3	23.9
60°	7305.9	4310.0	147.4	110.9	70.2	51.9	37.9	29.5	23.9	19.7	19.7
62.5°	8202.9	4673.6	126.4	92.7	59.0	43.5	30.9	23.9	19.7	16.8	15.4
65°	8496.4	4477.0	106.7	75.8	47.7	35.1	25.3	21.1	16.8	15.4	14.0
67.5°	7713.0	3669.8	88.4	61.8	39.3	29.5	22.5	18.3	15.4	14.0	12.6
70°	6018.5	2604.2	68.8	46.3	32.3	23.9	19.7	16.8	14.0	12.6	12.6
72.5°	4093.8	1540.1	54.8	35.1	26.7	21.1	16.8	15.4	14.0	12.6	11.2
75°	2016.0	547.5	42.1	26.7	21.1	18.3	15.4	14.0	12.6	11.2	11.2
77.5°	543.3	151.6	32.3	21.1	16.8	14.0	14.0	14.0	12.6	9.8	9.8
80°	183.9	63.2	23.9	15.4	14.0	11.2	9.8	12.6	11.2	9.8	8.4
82.5°	101.1	30.9	16.8	12.6	9.8	8.4	8.4	8.4	8.4	7.0	7.0
85°	64.6	16.8	11.2	9.8	9.8	7.0	5.6	5.6	4.2	4.2	4.2
87.5°	29.5	9.8	9.8	8.4	8.4	7.0	4.2	2.8	1.4	1.4	1.4
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)