

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: P639509

Luminaire Tested: GWS-SA5C-722-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-722-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

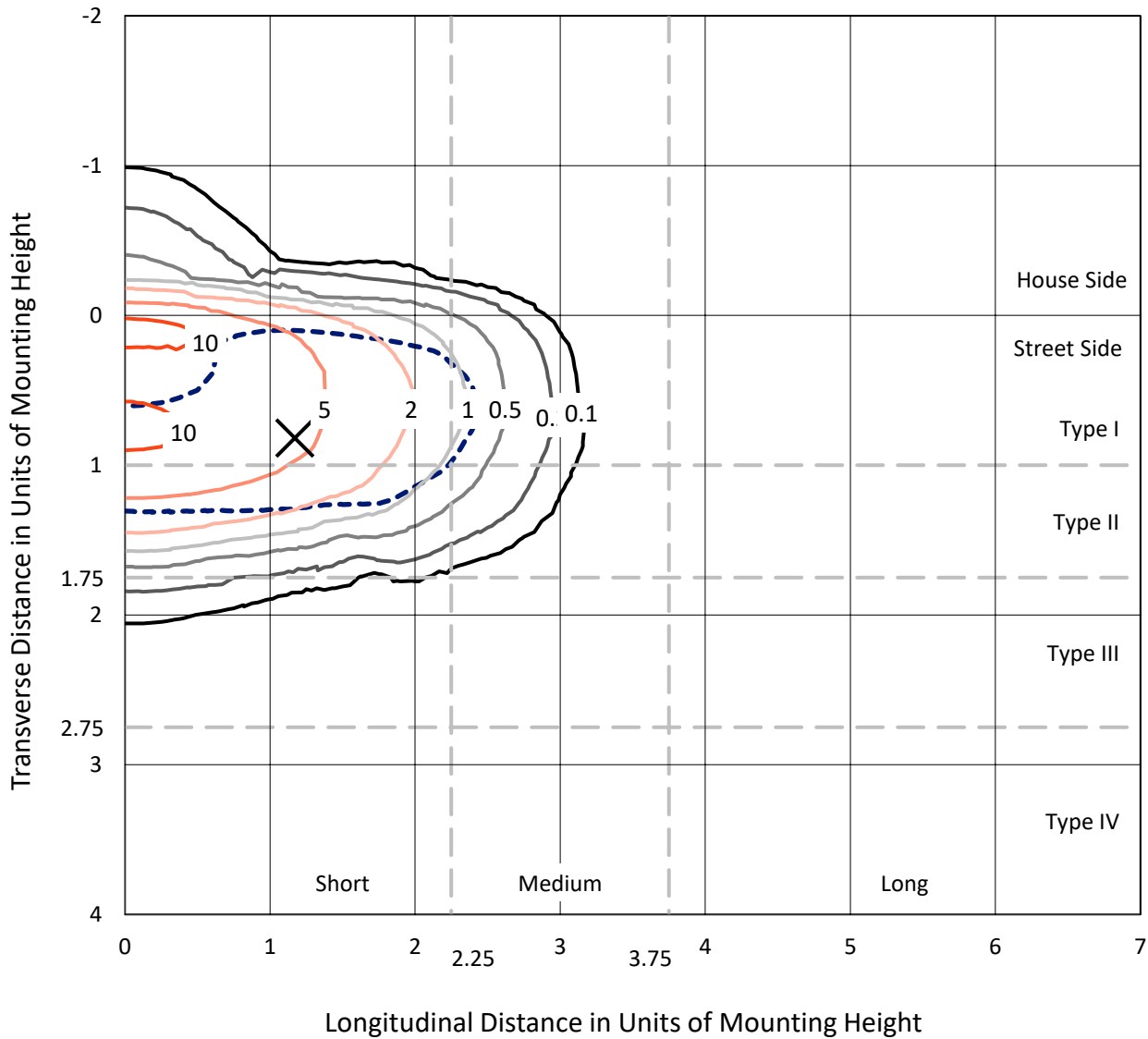
Lumens per Lamp: N/A  
Luminaire Lumens: 14709.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

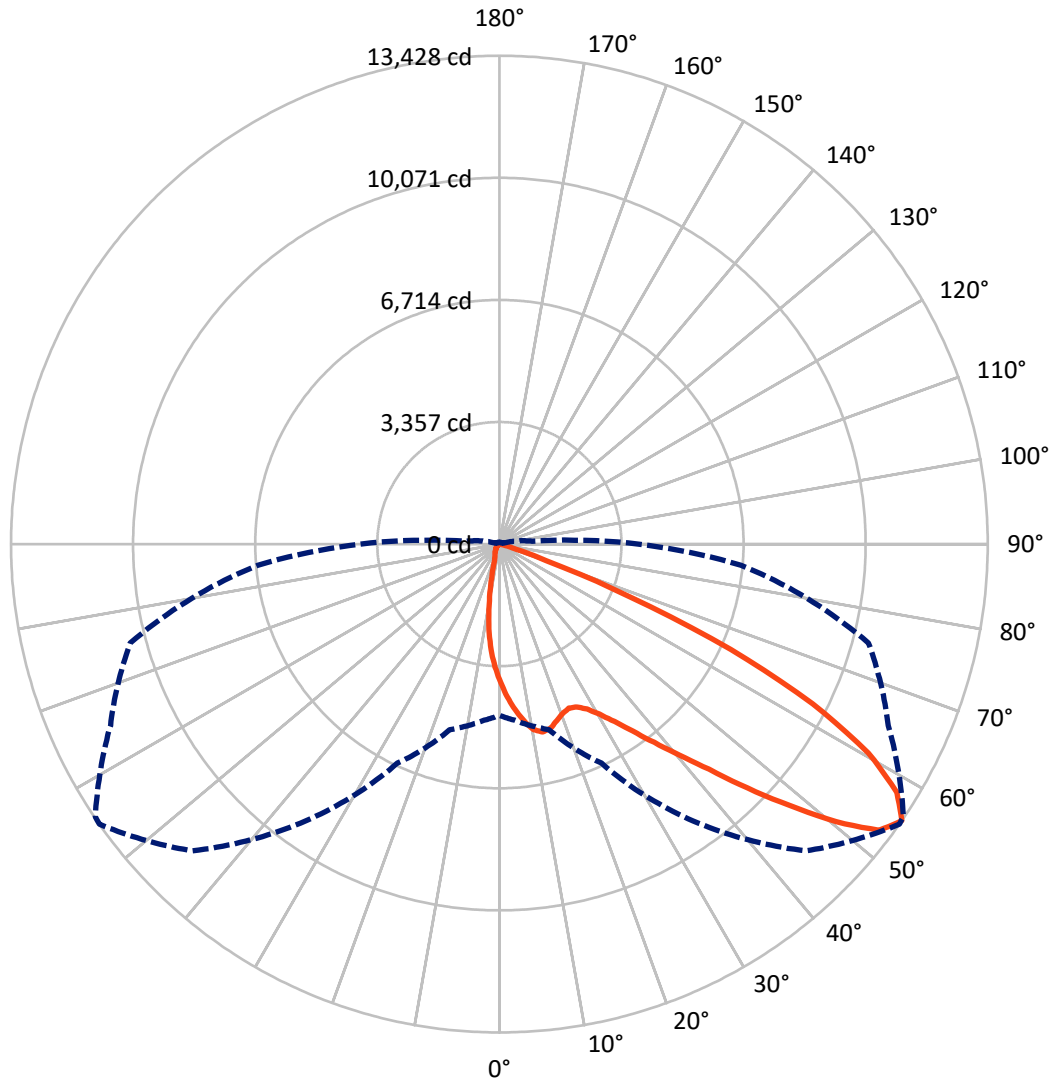
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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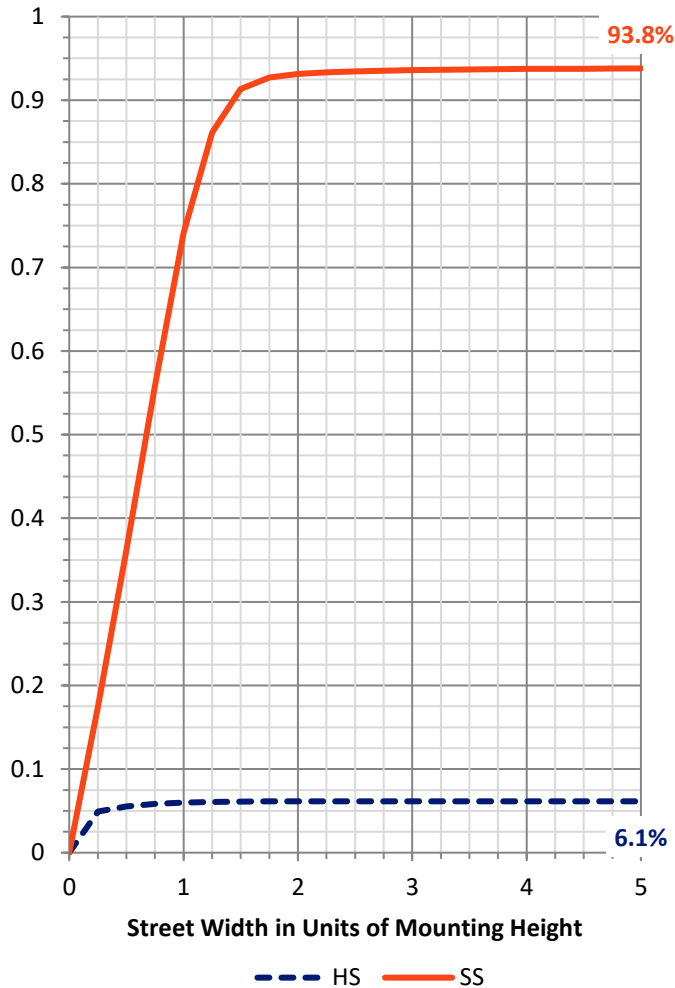
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	907.6	0.0	907.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	13801.5	0.0	13801.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	14709.1	0.0	14709.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.8	2.3
10°-20°	809.6	5.5
20°-30°	1348.4	9.2
30°-40°	2297.7	15.6
40°-50°	3750.6	25.5
50°-60°	3926.7	26.7
60°-70°	1980.6	13.5
70°-80°	250.2	1.7
80°-90°	9.5	0.1
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°	14709.1	100.0
0°-180°	14709.1	100.0

**Coefficient of Utilization**



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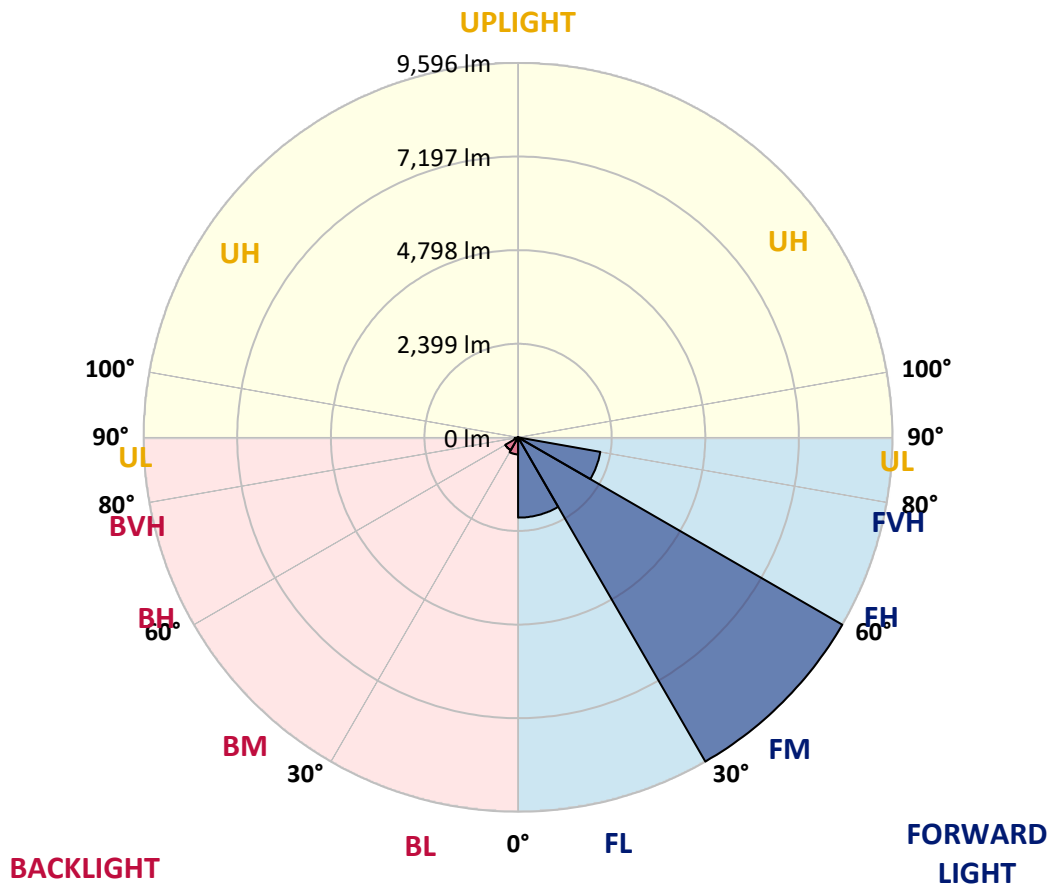
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.6	14.0			
FM (30°-60°)	9595.6	65.2			
FH (60°-80°)	2139.7	14.5			G2/5000
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	436.2	3.0	B1/500		
BM (30°-60°)	379.5	2.6	B1/1000		
BH (60°-80°)	91.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0
2.5°	4429.9	4408.6	4441.3	4403.5	4339.4	4285.3	4214.9	4189.8	4076.6	3969.7	3866.6
5°	4968.1	4974.4	4964.4	4911.5	4821.0	4720.4	4578.3	4546.9	4349.5	4145.8	3925.7
7.5°	5101.4	5097.6	5119.0	5139.1	5124.0	5073.8	4919.1	4887.7	4642.5	4336.9	4016.2
10°	4690.2	4692.7	4736.8	4872.6	5041.1	5215.8	5192.0	5174.3	4934.2	4553.2	4116.8
12.5°	4109.3	4131.9	4178.5	4372.1	4657.5	5054.9	5301.3	5319.0	5202.0	4790.8	4235.0
15°	3857.8	3862.8	3900.6	4017.5	4230.0	4720.4	5254.8	5303.9	5425.8	5029.7	4363.3
17.5°	3851.5	3857.8	3874.2	3925.7	4064.0	4457.6	5105.2	5190.7	5594.3	5286.3	4516.7
20°	4087.9	4084.2	4072.8	4045.2	4105.5	4370.8	4966.9	5061.2	5686.1	5536.5	4671.4
22.5°	4516.7	4511.7	4461.4	4347.0	4297.9	4450.1	4899.0	4984.5	5741.5	5759.1	4798.4
25°	5010.9	5046.1	4951.8	4778.3	4657.5	4652.5	4959.3	5019.7	5789.2	5956.5	4885.1
27.5°	5552.8	5564.2	5483.7	5288.8	5114.0	4976.9	5134.1	5179.4	5842.0	6132.5	4934.2
30°	6147.6	6143.8	6052.0	5825.7	5613.2	5415.8	5428.3	5446.0	5965.3	6333.7	4988.2
32.5°	6890.7	6907.1	6743.6	6435.6	6180.3	5907.4	5813.1	5815.6	6187.8	6592.7	5070.0
35°	7900.5	7860.2	7644.0	7205.1	6770.0	6475.8	6314.8	6301.0	6531.1	6941.0	5212.1
37.5°	8862.4	8866.2	8639.8	8157.0	7607.5	7143.5	6915.9	6878.2	7014.0	7423.9	5448.5
40°	9530.1	9542.7	9448.4	9195.6	8613.4	7957.1	7622.6	7583.6	7640.2	8035.0	5757.8
42.5°	9883.4	9918.7	9945.1	10004.2	9562.8	8973.1	8458.8	8455.0	8395.9	8731.6	6116.2
45°	9897.3	9950.1	10111.0	10514.7	10565.0	10132.4	9572.9	9488.6	9261.0	9477.3	6436.8
47.5°	9350.3	9472.3	9814.3	10614.0	11142.1	11285.5	10731.0	10679.4	10040.6	10067.0	6677.0
50°	8075.3	8202.3	8832.2	10104.8	11288.0	12200.9	12002.2	11895.3	10692.0	10456.8	6792.7
52.5°	6767.5	6883.2	7310.7	8892.6	10683.2	12488.8	13073.6	12946.6	11276.7	10592.6	6744.9
55°	4709.1	4863.8	5281.2	6646.8	9289.9	11928.0	13428.2	13401.7	11798.5	10507.1	6670.7
57.5°	2308.7	2462.1	2878.3	4098.0	6881.9	10414.1	12886.2	13025.8	12110.4	10415.3	6610.3
60°	964.5	1027.3	1170.7	1798.1	3850.3	7870.3	11662.7	11856.4	11919.2	10290.9	6604.1
62.5°	559.6	569.6	584.7	745.7	1497.6	4511.7	9674.7	9950.1	10914.5	10126.1	6504.7
65°	422.5	426.3	420.0	457.7	618.7	1711.4	6990.1	7364.8	9110.1	9482.3	6112.4
67.5°	347.1	347.1	330.7	338.3	388.5	641.3	3859.1	4382.2	6741.1	7793.6	5047.3
70°	276.6	282.9	275.4	265.3	277.9	354.6	1373.1	1702.6	3925.7	4602.2	2943.7
72.5°	210.0	210.0	222.6	215.0	206.2	222.6	479.1	538.2	1575.6	1918.8	1062.5
75°	162.2	167.2	176.0	168.5	155.9	132.0	230.1	243.9	475.3	446.4	237.7
77.5°	83.0	84.2	111.9	123.2	115.7	80.5	100.6	110.7	154.7	138.3	88.0
80°	50.3	52.8	62.9	96.8	76.7	42.8	41.5	44.0	72.9	62.9	36.5
82.5°	21.4	22.6	35.2	35.2	31.4	16.3	16.3	16.3	35.2	32.7	15.1
85°	0.0	0.0	6.3	5.0	5.0	6.3	6.3	6.3	8.8	12.6	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	3.8
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°	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0
2.5°	3800.0	3719.5	3611.4	3513.3	3381.2	3307.1	3203.9	3119.7	3048.0	3025.4	3015.3
5°	3801.2	3662.9	3431.5	3200.2	2916.0	2692.2	2462.1	2279.7	2130.1	2082.3	2069.7
7.5°	3826.4	3622.7	3248.0	2828.0	2352.7	1960.3	1609.5	1295.2	1149.3	1100.3	1090.2
10°	3860.3	3588.7	3035.4	2381.6	1698.8	1194.6	846.3	645.1	549.5	496.7	504.2
12.5°	3904.3	3561.1	2800.3	1898.7	1124.1	656.4	465.3	389.8	369.7	359.6	354.6
15°	3963.4	3528.4	2508.6	1419.6	689.1	422.5	358.4	338.3	330.7	325.7	324.4
17.5°	4023.8	3490.6	2211.8	998.4	457.7	350.8	321.9	311.8	306.8	303.0	301.8
20°	4087.9	3426.5	1863.5	687.8	360.9	315.6	296.8	285.4	279.2	272.9	271.6
22.5°	4115.6	3323.4	1530.3	481.6	320.6	290.5	266.6	252.7	245.2	240.2	240.2
25°	4089.2	3156.2	1185.8	365.9	291.7	262.8	238.9	223.8	217.5	212.5	212.5
27.5°	4018.8	2941.1	865.1	303.0	260.3	233.9	211.2	197.4	192.4	189.9	189.9
30°	3940.8	2669.5	609.9	260.3	225.1	203.7	184.8	176.0	174.8	172.3	172.3
32.5°	3874.2	2415.5	420.0	228.9	198.7	177.3	164.7	161.0	162.2	159.7	161.0
35°	3837.7	2166.6	311.8	203.7	177.3	157.2	150.9	150.9	150.9	149.6	149.6
37.5°	3852.8	1921.4	254.0	186.1	158.4	143.3	137.1	139.6	142.1	142.1	142.1
40°	3928.2	1703.8	225.1	169.8	142.1	130.8	125.7	129.5	133.3	135.8	135.8
42.5°	4023.8	1527.8	203.7	155.9	130.8	118.2	115.7	119.5	123.2	125.7	125.7
45°	4084.2	1350.5	182.3	138.3	119.5	104.4	104.4	109.4	108.1	109.4	109.4
47.5°	4111.8	1209.7	161.0	119.5	101.9	90.5	91.8	94.3	91.8	94.3	94.3
50°	4043.9	1067.6	142.1	99.3	84.2	79.2	81.7	80.5	80.5	85.5	85.5
52.5°	3919.4	961.9	125.7	84.2	71.7	70.4	72.9	67.9	69.2	69.2	67.9
55°	3827.6	901.6	111.9	72.9	61.6	62.9	61.6	52.8	47.8	42.8	41.5
57.5°	3782.4	877.7	101.9	65.4	55.3	55.3	50.3	36.5	27.7	21.4	18.9
60°	3772.3	848.8	91.8	56.6	49.0	46.5	36.5	21.4	13.8	10.1	8.8
62.5°	3676.7	778.4	83.0	45.3	42.8	37.7	22.6	12.6	7.5	5.0	3.8
65°	3363.6	640.0	74.2	35.2	32.7	27.7	13.8	7.5	3.8	1.3	0.0
67.5°	2675.8	453.9	65.4	26.4	22.6	17.6	8.8	5.0	1.3	0.0	0.0
70°	1542.9	245.2	54.1	18.9	15.1	11.3	6.3	2.5	0.0	0.0	0.0
72.5°	515.5	114.4	41.5	12.6	11.3	8.8	3.8	1.3	0.0	0.0	0.0
75°	113.2	67.9	27.7	8.8	7.5	6.3	2.5	0.0	0.0	0.0	0.0
77.5°	42.8	47.8	13.8	6.3	5.0	3.8	1.3	0.0	0.0	0.0	0.0
80°	16.3	31.4	6.3	3.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.8	12.6	3.8	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	6.3	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	1.3	1.3	0.0	0.0	0.0	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)