

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: P637199

Luminaire Tested: GWS-SA4C-735-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637199  
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-SA4C-735-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

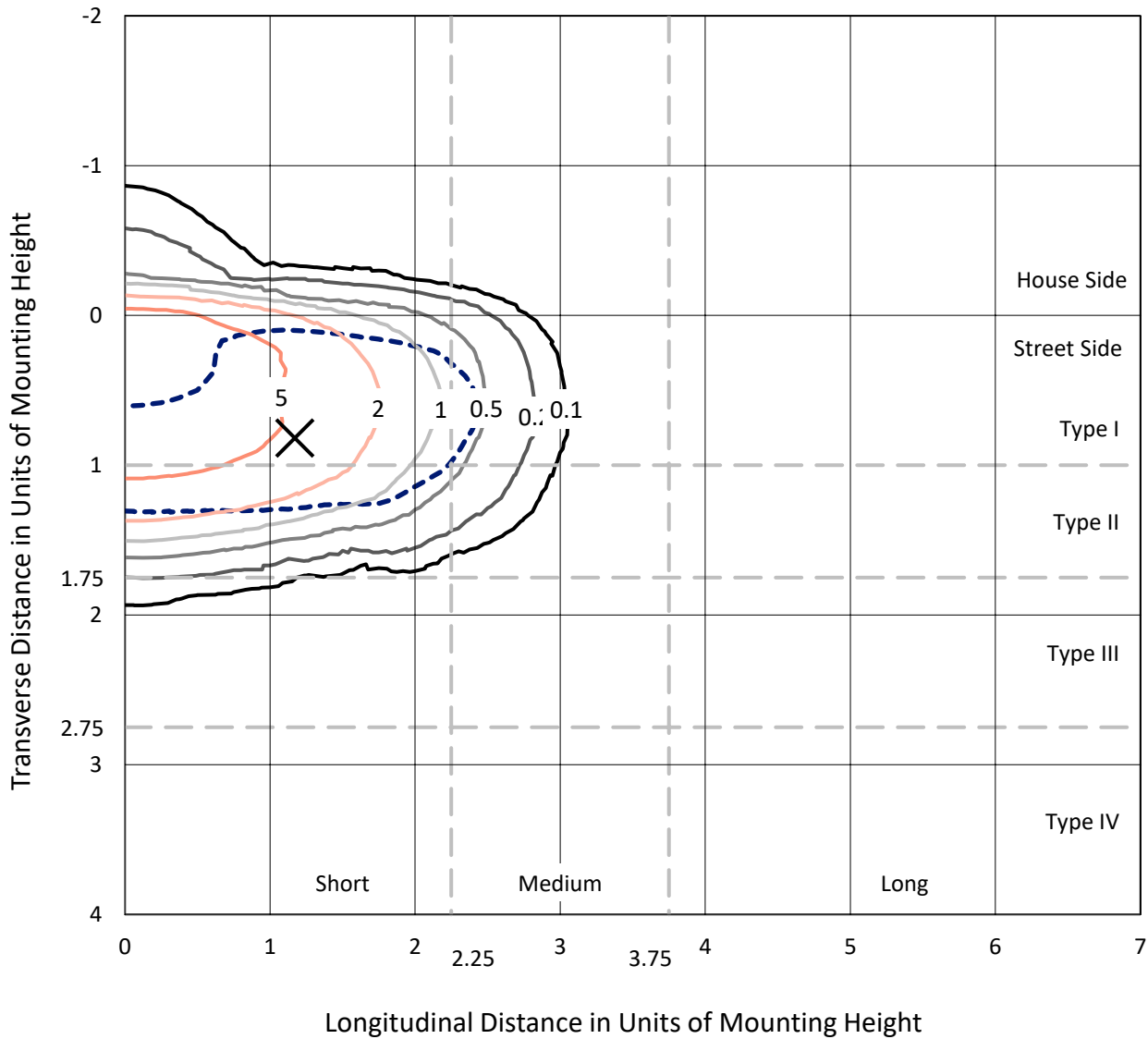
Lumens per Lamp: N/A  
Luminaire Lumens: 16055.4 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

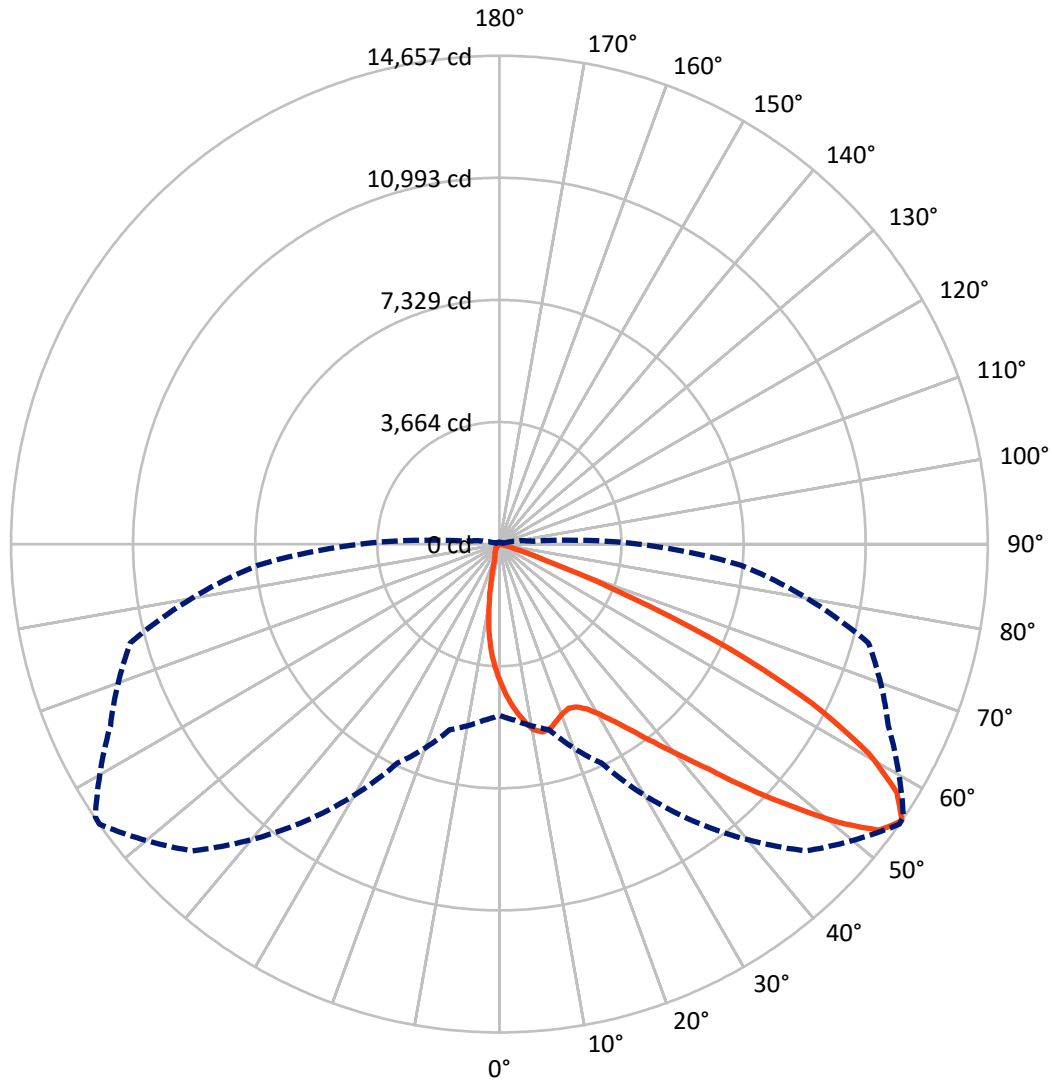
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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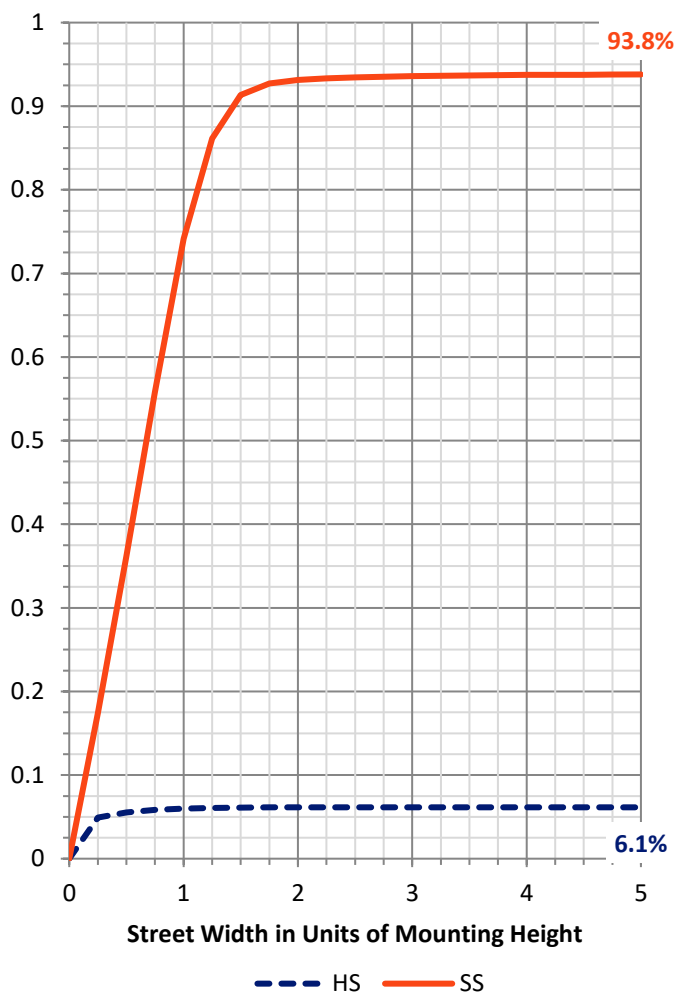
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	990.7	0.0	990.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	15064.7	0.0	15064.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	16055.4	0.0	16055.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.6	2.3
10°-20°	883.8	5.5
20°-30°	1471.8	9.2
30°-40°	2508.0	15.6
40°-50°	4093.9	25.5
50°-60°	4286.1	26.7
60°-70°	2161.8	13.5
70°-80°	273.1	1.7
80°-90°	10.4	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°	16055.4	100.0
0°-180°	16055.4	100.0

**Coefficient of Utilization**



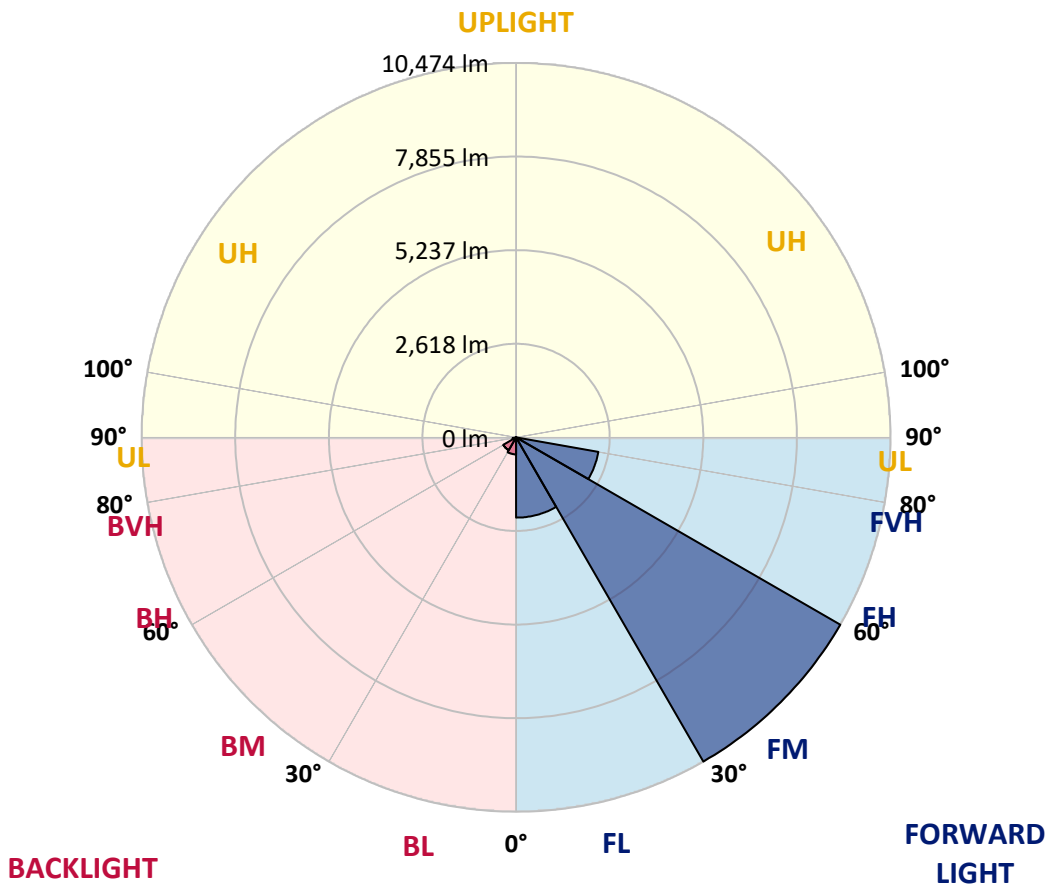
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2245.9	14.0			
FM (30°-60°)	10473.8	65.2			
FH (60°-80°)	2335.5	14.5			G2/5000
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	476.2	3.0	B1/500		
BM (30°-60°)	414.2	2.6	B1/1000		
BH (60°-80°)	99.4	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°	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8
2.5°	4835.4	4812.1	4847.8	4806.6	4736.6	4677.6	4600.7	4573.3	4449.7	4333.1	4220.5
5°	5422.9	5429.7	5418.7	5361.1	5262.3	5152.5	4997.4	4963.1	4747.6	4525.2	4285.0
7.5°	5568.3	5564.2	5587.6	5609.5	5593.0	5538.1	5369.3	5335.0	5067.4	4733.8	4383.8
10°	5119.5	5122.3	5170.3	5318.5	5502.5	5693.2	5667.2	5647.9	5385.8	4969.9	4493.7
12.5°	4485.4	4510.1	4560.9	4772.3	5083.8	5517.6	5786.6	5805.8	5678.1	5229.3	4622.7
15°	4210.9	4216.4	4257.6	4385.2	4617.2	5152.5	5735.8	5789.3	5922.5	5490.1	4762.7
17.5°	4204.0	4210.9	4228.8	4285.0	4436.0	4865.6	5572.5	5665.8	6106.4	5770.1	4930.1
20°	4462.1	4458.0	4445.6	4415.4	4481.3	4770.9	5421.5	5524.4	6206.6	6043.2	5098.9
22.5°	4930.1	4924.6	4869.7	4744.8	4691.3	4857.4	5347.4	5440.7	6267.0	6286.2	5237.6
25°	5469.5	5507.9	5405.0	5215.6	5083.8	5078.3	5413.2	5479.1	6319.1	6501.7	5332.3
27.5°	6061.1	6073.4	5985.6	5772.8	5582.1	5432.5	5604.0	5653.4	6376.8	6693.8	5385.8
30°	6710.3	6706.2	6606.0	6358.9	6127.0	5911.5	5925.2	5944.4	6511.3	6913.4	5444.8
32.5°	7521.4	7539.3	7360.9	7024.6	6746.0	6448.1	6345.2	6347.9	6754.2	7196.2	5534.0
35°	8623.6	8579.7	8343.6	7864.6	7389.7	7068.5	6892.8	6877.7	7128.9	7576.3	5689.1
37.5°	9673.6	9677.7	9430.6	8903.6	8303.8	7797.3	7548.9	7507.7	7656.0	8103.4	5947.2
40°	10402.4	10416.1	10313.2	10037.3	9401.8	8685.3	8320.3	8277.7	8339.5	8770.4	6284.8
42.5°	10788.1	10826.5	10855.3	10919.8	10438.1	9794.3	9233.0	9228.9	9164.4	9530.8	6676.0
45°	10803.2	10860.8	11036.5	11477.1	11532.0	11059.8	10449.0	10357.1	10108.7	10344.7	7026.0
47.5°	10206.1	10339.2	10712.6	11585.5	12162.0	12318.4	11713.1	11656.9	10959.6	10988.4	7288.1
50°	8814.4	8953.0	9640.6	11029.6	12321.2	13317.6	13100.8	12984.1	11670.6	11413.9	7414.4
52.5°	7386.9	7513.2	7979.9	9706.5	11661.0	13631.9	14270.2	14131.5	12308.8	11562.2	7362.2
55°	5140.1	5308.9	5764.6	7255.2	10140.2	13019.8	14657.2	14628.4	12878.4	11468.8	7281.3
57.5°	2520.0	2687.4	3141.7	4473.1	7511.8	11367.3	14065.7	14218.0	13218.8	11368.6	7215.4
60°	1052.7	1121.4	1277.8	1962.7	4202.7	8590.6	12730.2	12941.6	13010.2	11232.8	7208.5
62.5°	610.8	621.8	638.2	813.9	1634.7	4924.6	10560.2	10860.8	11913.5	11053.0	7100.1
65°	461.2	465.3	458.4	499.6	675.3	1868.0	7629.9	8038.9	9944.0	10350.2	6671.9
67.5°	378.8	378.8	361.0	369.2	424.1	700.0	4212.3	4783.3	7358.1	8506.9	5509.3
70°	302.0	308.8	300.6	289.6	303.3	387.1	1498.8	1858.4	4285.0	5023.4	3213.1
72.5°	229.2	229.2	242.9	234.7	225.1	242.9	522.9	587.4	1719.8	2094.5	1159.8
75°	177.1	182.5	192.2	183.9	170.2	144.1	251.2	266.3	518.8	487.2	259.4
77.5°	90.6	92.0	122.2	134.5	126.3	87.8	109.8	120.8	168.8	151.0	96.1
80°	54.9	57.6	68.6	105.7	83.7	46.7	45.3	48.0	79.6	68.6	39.8
82.5°	23.3	24.7	38.4	38.4	34.3	17.8	17.8	17.8	38.4	35.7	16.5
85°	0.0	0.0	6.9	5.5	5.5	6.9	6.9	6.9	9.6	13.7	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.1
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°	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8	4147.8
2.5°	4147.8	4059.9	3941.9	3834.8	3690.7	3609.7	3497.2	3405.2	3327.0	3302.3	3291.3
5°	4149.1	3998.2	3745.6	3493.1	3182.9	2938.6	2687.4	2488.4	2325.1	2272.9	2259.2
7.5°	4176.6	3954.2	3545.2	3086.8	2568.0	2139.8	1756.8	1413.7	1254.5	1201.0	1190.0
10°	4213.7	3917.2	3313.3	2599.6	1854.3	1303.9	923.7	704.1	599.8	542.1	550.4
12.5°	4261.7	3887.0	3056.6	2072.5	1227.0	716.5	507.8	425.5	403.5	392.5	387.1
15°	4326.2	3851.3	2738.2	1549.6	752.1	461.2	391.2	369.2	361.0	355.5	354.1
17.5°	4392.1	3810.1	2414.3	1089.8	499.6	382.9	351.4	340.4	334.9	330.8	329.4
20°	4462.1	3740.1	2034.1	750.8	393.9	344.5	323.9	311.6	304.7	297.8	296.5
22.5°	4492.3	3627.6	1670.4	525.7	350.0	317.1	291.0	275.9	267.6	262.2	262.2
25°	4463.5	3445.0	1294.3	399.4	318.4	286.9	260.8	244.3	237.4	232.0	232.0
27.5°	4386.6	3210.3	944.3	330.8	284.1	255.3	230.6	215.5	210.0	207.3	207.3
30°	4301.5	2913.9	665.7	284.1	245.7	222.3	201.8	192.2	190.8	188.0	188.0
32.5°	4228.8	2636.6	458.4	249.8	216.9	193.5	179.8	175.7	177.1	174.3	175.7
35°	4189.0	2364.9	340.4	222.3	193.5	171.6	164.7	164.7	164.7	163.3	163.3
37.5°	4205.4	2097.2	277.3	203.1	172.9	156.5	149.6	152.4	155.1	155.1	155.1
40°	4287.8	1859.8	245.7	185.3	155.1	142.7	137.3	141.4	145.5	148.2	148.2
42.5°	4392.1	1667.6	222.3	170.2	142.7	129.0	126.3	130.4	134.5	137.3	137.3
45°	4458.0	1474.1	199.0	151.0	130.4	113.9	113.9	119.4	118.0	119.4	119.4
47.5°	4488.2	1320.4	175.7	130.4	111.2	98.8	100.2	102.9	100.2	102.9	102.9
50°	4414.0	1165.3	155.1	108.4	92.0	86.5	89.2	87.8	87.8	93.3	93.3
52.5°	4278.2	1050.0	137.3	92.0	78.2	76.9	79.6	74.1	75.5	75.5	74.1
55°	4178.0	984.1	122.2	79.6	67.3	68.6	67.3	57.6	52.2	46.7	45.3
57.5°	4128.6	958.0	111.2	71.4	60.4	60.4	54.9	39.8	30.2	23.3	20.6
60°	4117.6	926.5	100.2	61.8	53.5	50.8	39.8	23.3	15.1	11.0	9.6
62.5°	4013.3	849.6	90.6	49.4	46.7	41.2	24.7	13.7	8.2	5.5	4.1
65°	3671.5	698.6	81.0	38.4	35.7	30.2	15.1	8.2	4.1	1.4	0.0
67.5°	2920.7	495.5	71.4	28.8	24.7	19.2	9.6	5.5	1.4	0.0	0.0
70°	1684.1	267.6	59.0	20.6	16.5	12.4	6.9	2.7	0.0	0.0	0.0
72.5°	562.7	124.9	45.3	13.7	12.4	9.6	4.1	1.4	0.0	0.0	0.0
75°	123.5	74.1	30.2	9.6	8.2	6.9	2.7	0.0	0.0	0.0	0.0
77.5°	46.7	52.2	15.1	6.9	5.5	4.1	1.4	0.0	0.0	0.0	0.0
80°	17.8	34.3	6.9	4.1	4.1	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	13.7	4.1	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	6.9	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.4	1.4	1.4	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)