

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: P633239

Luminaire Tested: GWS-SA2E-735-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633239  
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-SA2E-735-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

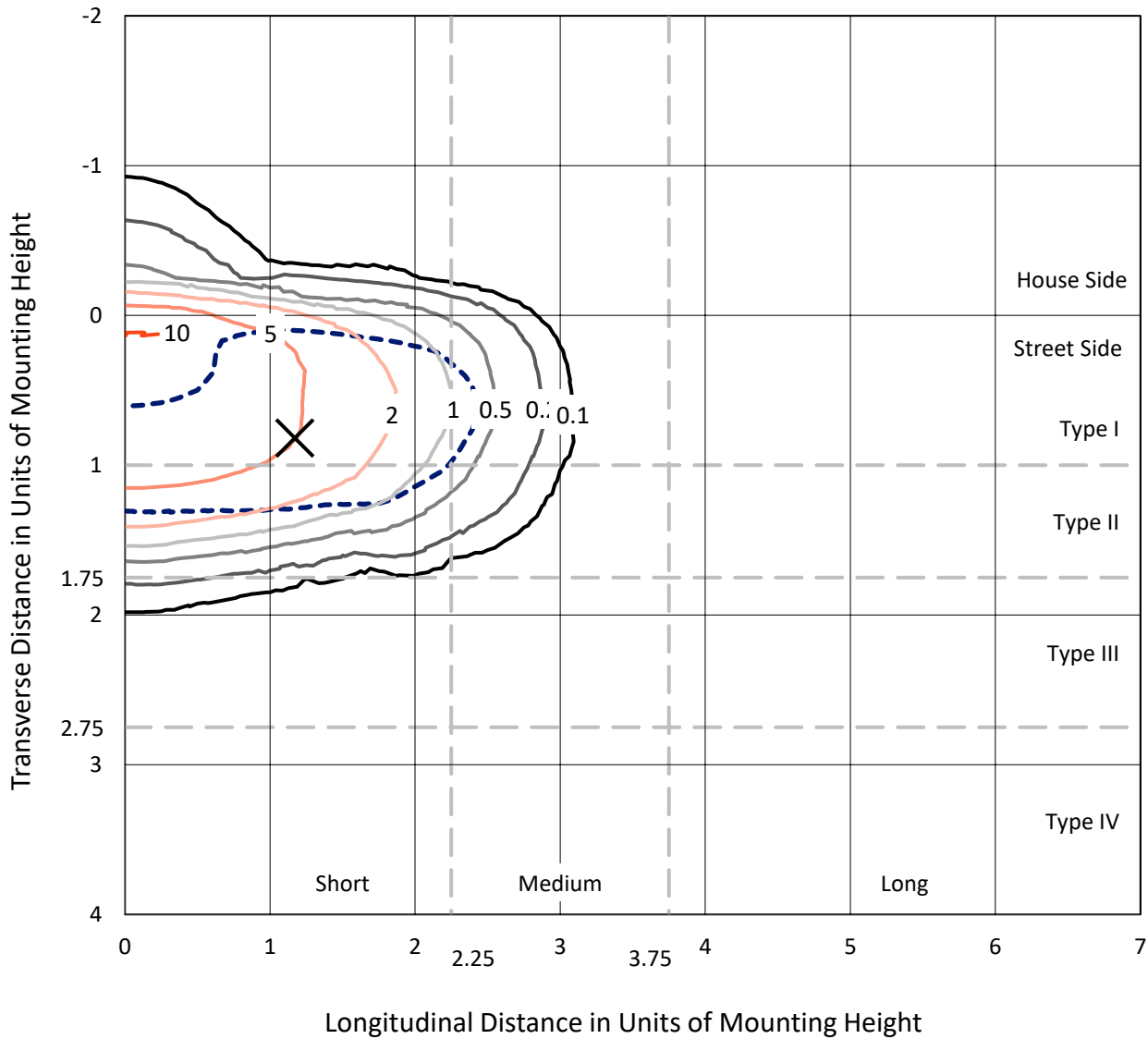
Lumens per Lamp: N/A  
Luminaire Lumens: 12068.3 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P633239  
 CATALOG NUMBER: GWS-SA2E-735-U-AFL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

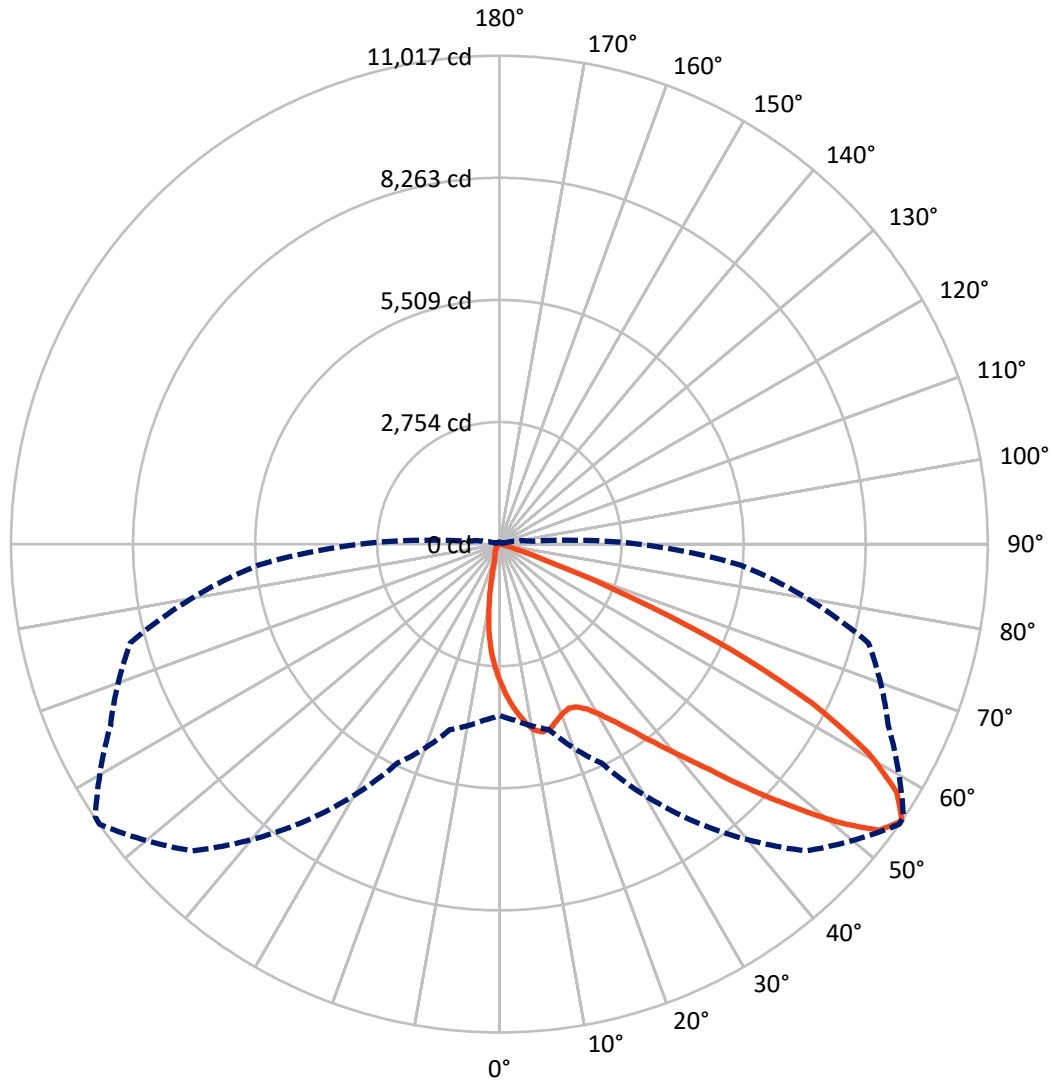
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P633239  
CATALOG NUMBER: GWS-SA2E-735-U-AFL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P633239  
 CATALOG NUMBER: GWS-SA2E-735-U-AFL-W-HSS

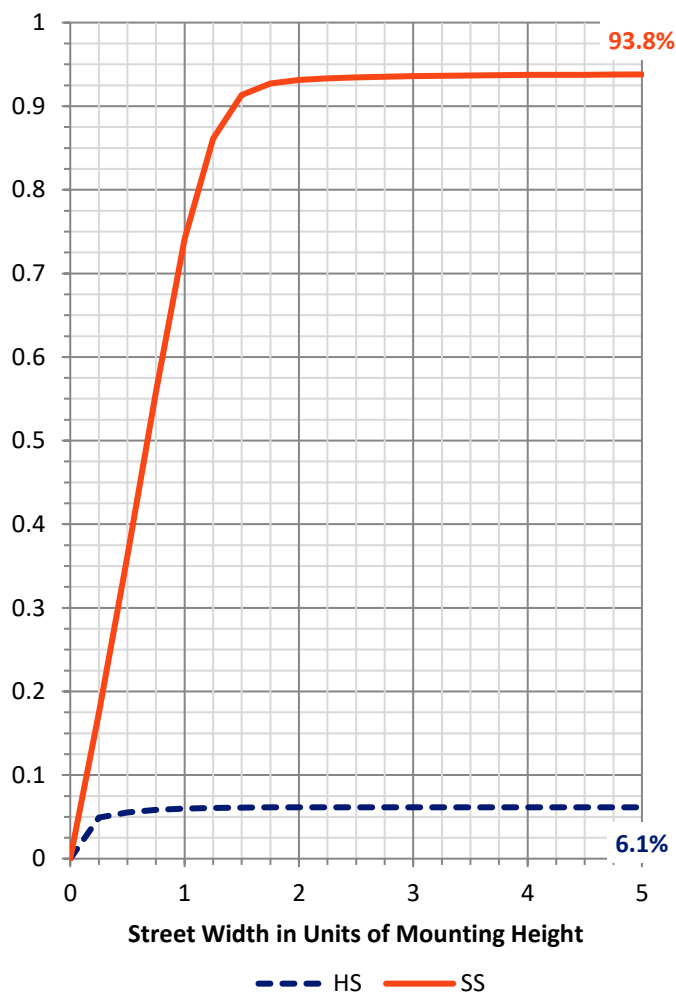
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	744.7	0.0	744.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11323.6	0.0	11323.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	12068.3	0.0	12068.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.5	2.3
10°-20°	664.3	5.5
20°-30°	1106.3	9.2
30°-40°	1885.2	15.6
40°-50°	3077.3	25.5
50°-60°	3221.7	26.7
60°-70°	1625.0	13.5
70°-80°	205.3	1.7
80°-90°	7.8	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°	12068.3	100.0
0°-180°	12068.3	100.0

**Coefficient of Utilization**

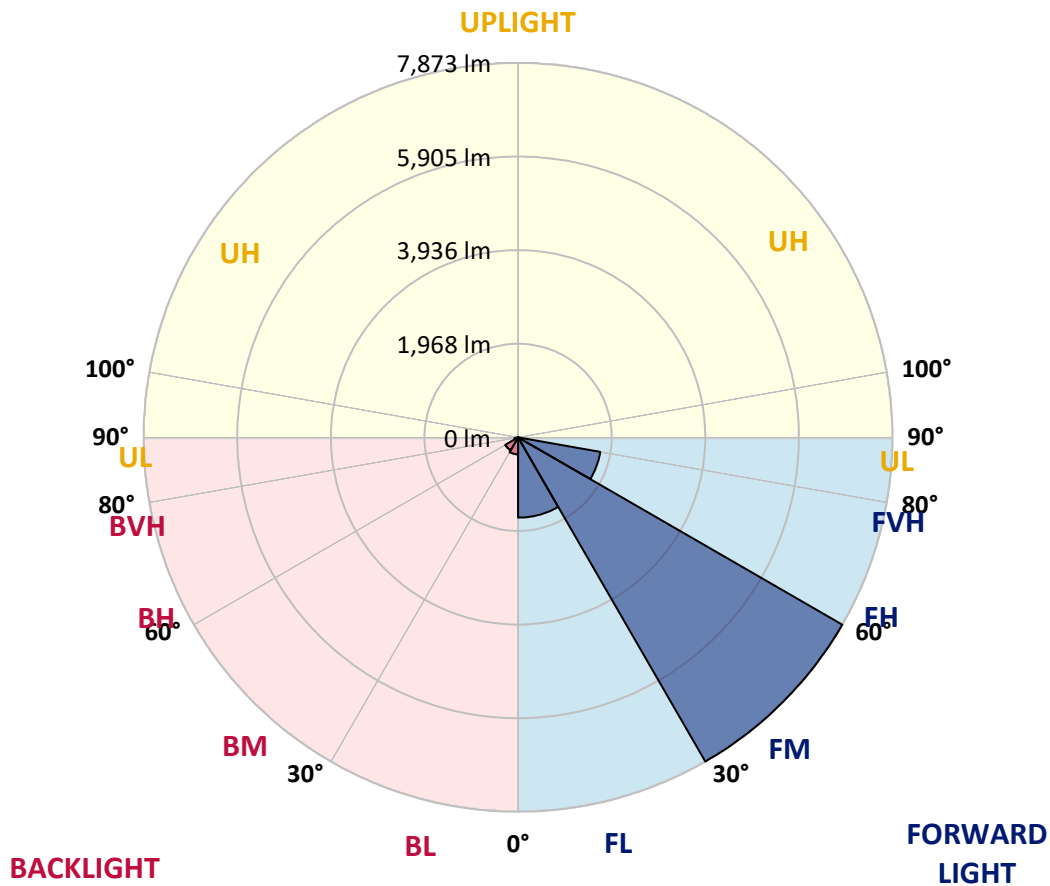


REPORT NUMBER: P633239  
 CATALOG NUMBER: GWS-SA2E-735-U-AFL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.2	14.0			
FM (30°-60°)	7872.8	65.2			
FH (60°-80°)	1755.5	14.5			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	357.9	3.0	B1/500		
BM (30°-60°)	311.4	2.6	B1/1000		
BH (60°-80°)	74.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1**  
 Type II Short





REPORT NUMBER: P633239

CATALOG NUMBER: GWS-SA2E-735-U-AFL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7
2.5°	3634.6	3617.1	3643.9	3612.9	3560.3	3516.0	3458.2	3437.6	3344.7	3257.0	3172.4
5°	4076.2	4081.3	4073.1	4029.7	3955.5	3872.9	3756.4	3730.6	3568.6	3401.5	3220.9
7.5°	4185.5	4182.4	4200.0	4216.5	4204.1	4162.8	4035.9	4010.1	3809.0	3558.3	3295.2
10°	3848.2	3850.2	3886.3	3997.8	4136.0	4279.4	4259.8	4245.4	4048.3	3735.7	3377.7
12.5°	3371.5	3390.1	3428.3	3587.2	3821.3	4147.4	4349.6	4364.0	4268.1	3930.7	3474.7
15°	3165.2	3169.3	3200.3	3296.2	3470.6	3872.9	4311.4	4351.6	4451.7	4126.7	3579.9
17.5°	3160.0	3165.2	3178.6	3220.9	3334.4	3657.3	4188.6	4258.8	4590.0	4337.2	3705.8
20°	3354.0	3350.9	3341.6	3318.9	3368.4	3586.1	4075.1	4152.5	4665.3	4542.5	3832.7
22.5°	3705.8	3701.7	3660.4	3566.5	3526.3	3651.1	4019.4	4089.6	4710.7	4725.1	3936.9
25°	4111.3	4140.1	4062.8	3920.4	3821.3	3817.2	4069.0	4118.5	4749.9	4887.1	4008.1
27.5°	4555.9	4565.2	4499.2	4339.3	4195.8	4083.4	4212.4	4249.5	4793.2	5031.5	4048.3
30°	5043.9	5040.8	4965.5	4779.8	4605.4	4443.5	4453.8	4468.2	4894.3	5196.6	4092.7
32.5°	5653.6	5667.0	5532.9	5280.1	5070.7	4846.8	4769.5	4771.5	5076.9	5409.1	4159.7
35°	6482.1	6449.0	6271.6	5911.5	5554.6	5313.2	5181.1	5169.8	5358.6	5694.9	4276.3
37.5°	7271.3	7274.4	7088.7	6692.5	6241.7	5861.0	5674.2	5643.3	5754.7	6091.0	4470.3
40°	7819.1	7829.4	7752.1	7544.7	7067.0	6528.5	6254.1	6222.1	6268.5	6592.4	4724.1
42.5°	8109.0	8137.9	8159.6	8208.1	7845.9	7362.1	6940.1	6937.0	6888.5	7164.0	5018.1
45°	8120.4	8163.7	8295.8	8626.9	8668.2	8313.3	7854.2	7785.1	7598.3	7775.8	5281.2
47.5°	7671.6	7771.7	8052.3	8708.4	9141.7	9259.3	8804.4	8762.1	8238.0	8259.6	5478.2
50°	6625.5	6729.7	7246.5	8290.6	9261.4	10010.4	9847.4	9759.7	8772.4	8579.5	5573.1
52.5°	5552.5	5647.4	5998.2	7296.1	8765.2	10246.7	10726.4	10622.2	9252.1	8690.9	5533.9
55°	3863.6	3990.5	4333.1	5453.5	7622.1	9786.5	11017.3	10995.7	9680.3	8620.7	5473.1
57.5°	1894.2	2020.0	2361.5	3362.3	5646.4	8544.4	10572.7	10687.2	9936.1	8545.4	5423.6
60°	791.3	842.9	960.5	1475.3	3159.0	6457.3	9568.8	9727.7	9779.3	8443.3	5418.4
62.5°	459.1	467.4	479.7	611.8	1228.7	3701.7	7937.8	8163.7	8955.0	8308.1	5336.9
65°	346.6	349.7	344.6	375.5	507.6	1404.1	5735.1	6042.6	7474.5	7779.9	5015.0
67.5°	284.7	284.7	271.3	277.5	318.8	526.2	3166.2	3595.4	5530.8	6394.4	4141.2
70°	227.0	232.1	225.9	217.7	228.0	290.9	1126.6	1396.9	3220.9	3776.0	2415.2
72.5°	172.3	172.3	182.6	176.4	169.2	182.6	393.1	441.6	1292.7	1574.3	871.8
75°	133.1	137.2	144.4	138.2	127.9	108.3	188.8	200.1	390.0	366.2	195.0
77.5°	68.1	69.1	91.8	101.1	94.9	66.0	82.5	90.8	126.9	113.5	72.2
80°	41.3	43.3	51.6	79.4	62.9	35.1	34.0	36.1	59.8	51.6	29.9
82.5°	17.5	18.6	28.9	28.9	25.8	13.4	13.4	13.4	28.9	26.8	12.4
85°	0.0	0.0	5.2	4.1	4.1	5.2	5.2	5.2	7.2	10.3	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633239

CATALOG NUMBER: GWS-SA2E-735-U-AFL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7
2.5°	3117.7	3051.7	2963.0	2882.5	2774.2	2713.3	2628.7	2559.6	2500.8	2482.2	2474.0
5°	3118.8	3005.3	2815.5	2625.6	2392.5	2208.8	2020.0	1870.4	1747.7	1708.5	1698.1
7.5°	3139.4	2972.3	2664.8	2320.3	1930.3	1608.4	1320.6	1062.6	943.0	902.7	894.5
10°	3167.3	2944.4	2490.5	1954.0	1393.8	980.1	694.3	529.3	450.8	407.5	413.7
12.5°	3203.4	2921.7	2297.6	1557.8	922.3	538.5	381.7	319.8	303.3	295.1	290.9
15°	3251.9	2894.9	2058.2	1164.8	565.4	346.6	294.0	277.5	271.3	267.2	266.2
17.5°	3301.4	2863.9	1814.7	819.2	375.5	287.8	264.1	255.9	251.7	248.6	247.6
20°	3354.0	2811.3	1529.0	564.3	296.1	259.0	243.5	234.2	229.0	223.9	222.8
22.5°	3376.7	2726.7	1255.6	395.1	263.1	238.3	218.7	207.4	201.2	197.1	197.1
25°	3355.0	2589.5	972.9	300.2	239.4	215.6	196.0	183.6	178.5	174.4	174.4
27.5°	3297.3	2413.1	709.8	248.6	213.6	191.9	173.3	162.0	157.8	155.8	155.8
30°	3233.3	2190.3	500.4	213.6	184.7	167.1	151.7	144.4	143.4	141.3	141.3
32.5°	3178.6	1981.9	344.6	187.8	163.0	145.5	135.2	132.1	133.1	131.0	132.1
35°	3148.7	1777.6	255.9	167.1	145.5	129.0	123.8	123.8	123.8	122.8	122.8
37.5°	3161.1	1576.4	208.4	152.7	130.0	117.6	112.5	114.5	116.6	116.6	116.6
40°	3223.0	1397.9	184.7	139.3	116.6	107.3	103.2	106.3	109.4	111.4	111.4
42.5°	3301.4	1253.5	167.1	127.9	107.3	97.0	94.9	98.0	101.1	103.2	103.2
45°	3350.9	1108.0	149.6	113.5	98.0	85.6	85.6	89.8	88.7	89.8	89.8
47.5°	3373.6	992.5	132.1	98.0	83.6	74.3	75.3	77.4	75.3	77.4	77.4
50°	3317.9	875.9	116.6	81.5	69.1	65.0	67.1	66.0	66.0	70.2	70.2
52.5°	3215.8	789.2	103.2	69.1	58.8	57.8	59.8	55.7	56.7	56.7	55.7
55°	3140.4	739.7	91.8	59.8	50.6	51.6	50.6	43.3	39.2	35.1	34.0
57.5°	3103.3	720.1	83.6	53.6	45.4	45.4	41.3	29.9	22.7	17.5	15.5
60°	3095.0	696.4	75.3	46.4	40.2	38.2	29.9	17.5	11.3	8.3	7.2
62.5°	3016.6	638.6	68.1	37.1	35.1	31.0	18.6	10.3	6.2	4.1	3.1
65°	2759.7	525.1	60.9	28.9	26.8	22.7	11.3	6.2	3.1	1.0	0.0
67.5°	2195.4	372.4	53.6	21.7	18.6	14.4	7.2	4.1	1.0	0.0	0.0
70°	1265.9	201.2	44.4	15.5	12.4	9.3	5.2	2.1	0.0	0.0	0.0
72.5°	423.0	93.9	34.0	10.3	9.3	7.2	3.1	1.0	0.0	0.0	0.0
75°	92.9	55.7	22.7	7.2	6.2	5.2	2.1	0.0	0.0	0.0	0.0
77.5°	35.1	39.2	11.3	5.2	4.1	3.1	1.0	0.0	0.0	0.0	0.0
80°	13.4	25.8	5.2	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	10.3	3.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	5.2	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	1.0	1.0	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)