

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: P640199

Luminaire Tested: GWS-SA5D-735-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

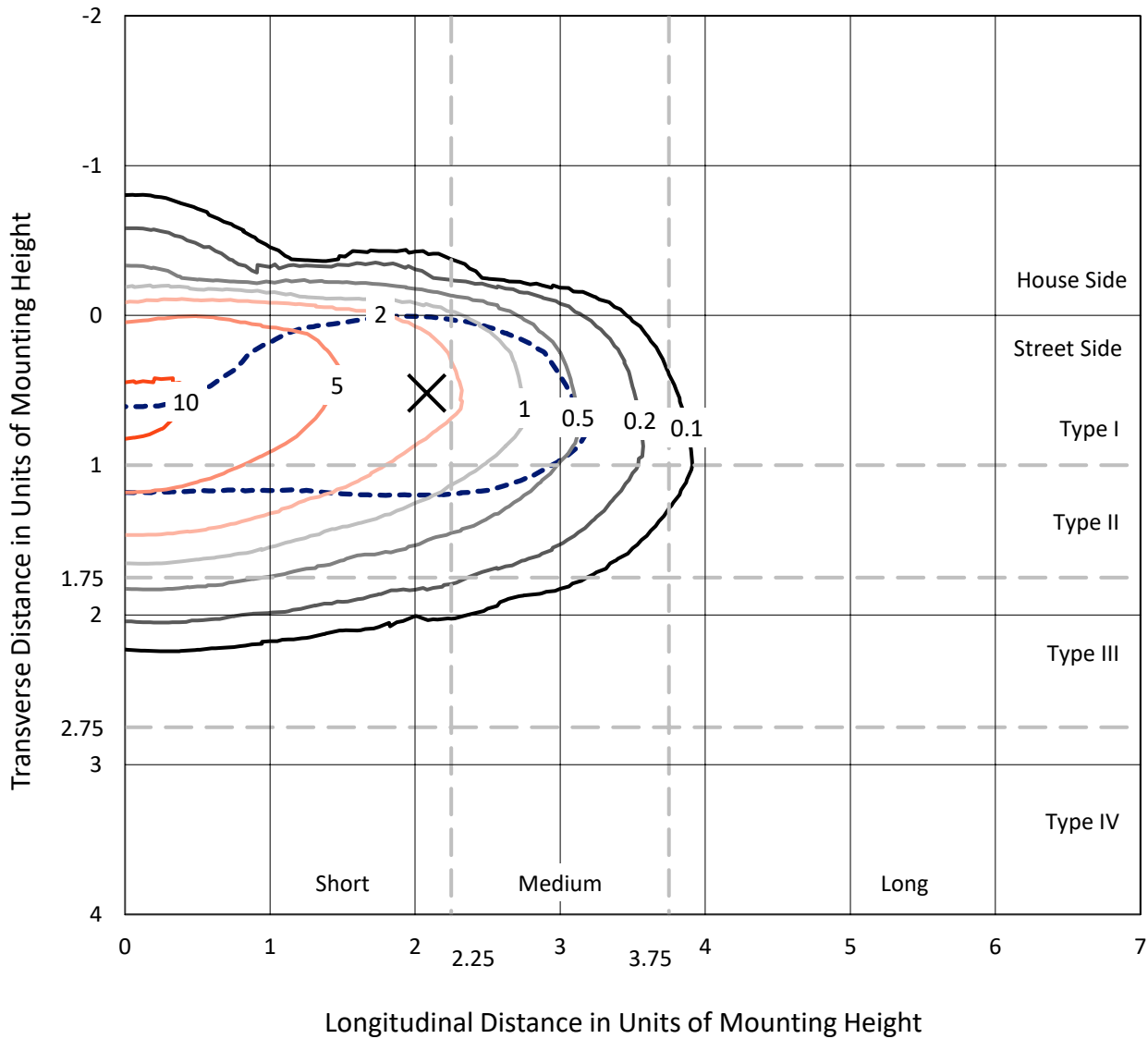
Lumens per Lamp: N/A  
Luminaire Lumens: 23895.4 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

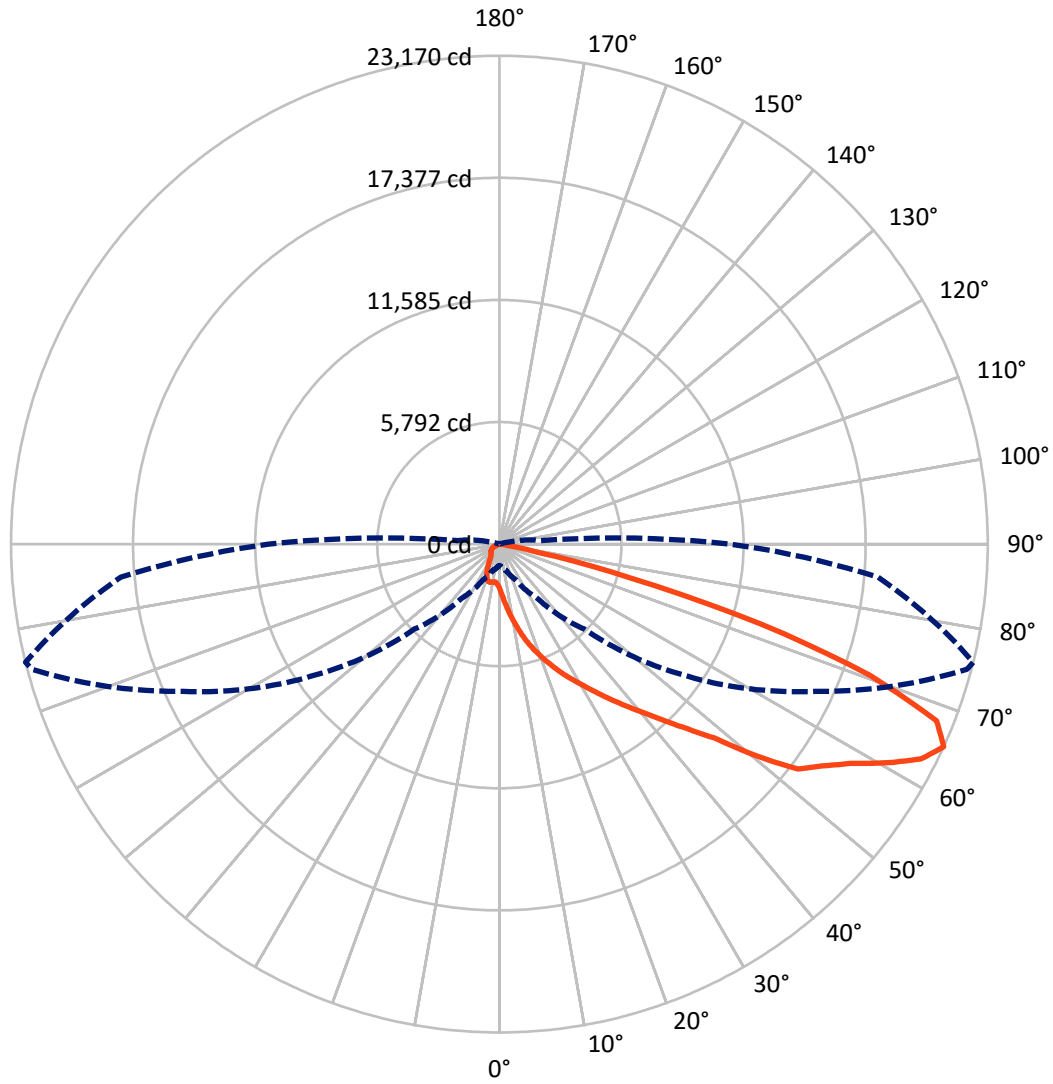
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P640199  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GWS-SA5D-735-U-T2R-W-HSS

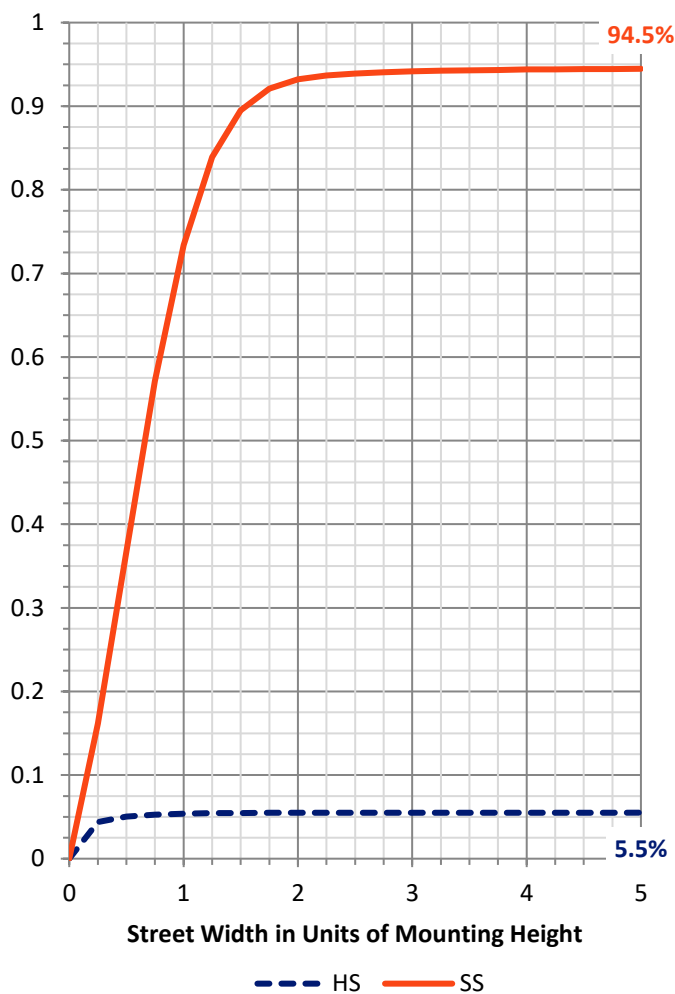
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1321.3	0.0	1321.3
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	22574.1	0.0	22574.1
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	23895.4	0.0	23895.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.4	1.1
10°-20°	976.6	4.1
20°-30°	1992.4	8.3
30°-40°	3543.6	14.8
40°-50°	5238.3	21.9
50°-60°	5997.4	25.1
60°-70°	4575.7	19.1
70°-80°	1281.8	5.4
80°-90°	32.3	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°	23895.4	100.0
0°-180°	23895.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640199

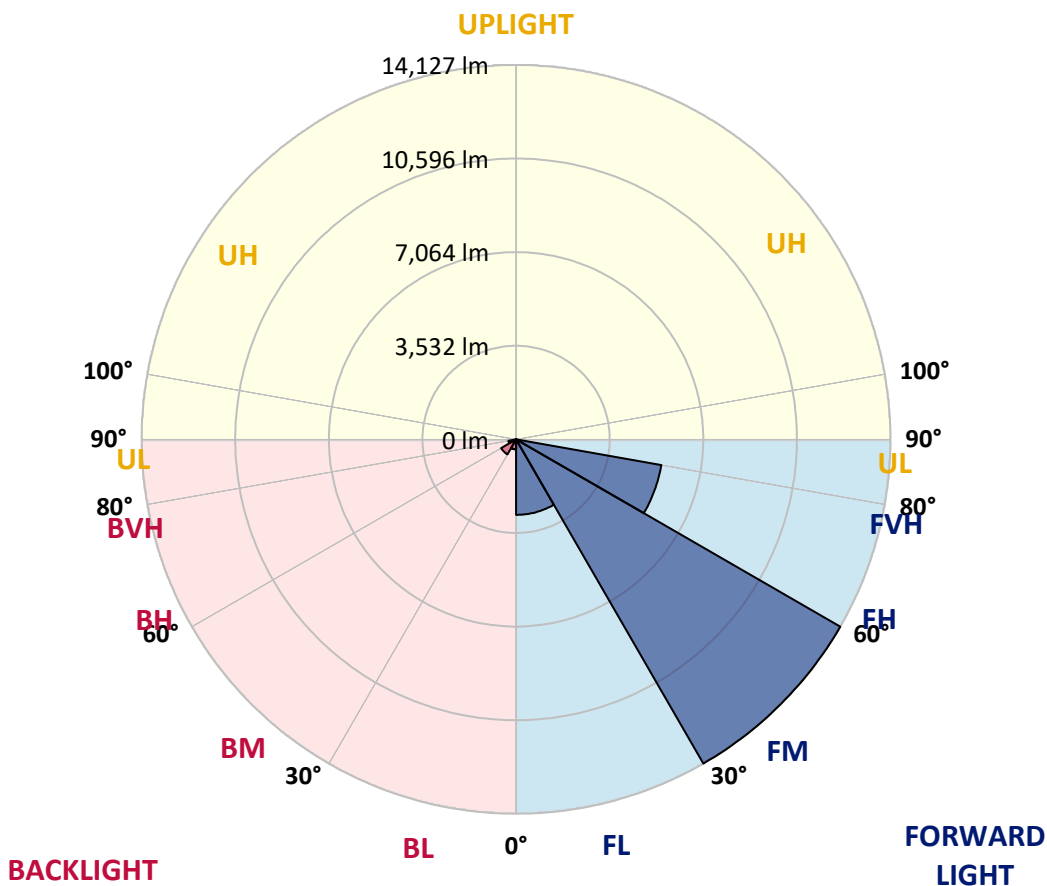
CATALOG NUMBER: GWS-SA5D-735-U-T2R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2849.4	11.9			
FM (30°-60°)	14127.3	59.1			
FH (60°-80°)	5567.0	23.3			G3/7500
FVH (80°-90°)	30.4	0.1			G1/100
BL (0°-30°)	377.0	1.6	B1/500		
BM (30°-60°)	651.9	2.7	B1/1000		
BH (60°-80°)	290.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6
2.5°	3260.5	3309.4	3271.1	3207.4	3084.2	2965.3	2812.3	2602.0	2434.2	2413.0	2255.8
5°	4403.3	4399.0	4316.2	4233.4	4103.8	3899.9	3591.9	3201.0	2825.1	2793.2	2440.6
7.5°	5083.0	5089.4	5042.6	4978.9	4851.5	4641.2	4320.4	3848.9	3298.7	3235.0	2693.4
10°	5654.4	5652.3	5618.3	5588.5	5473.8	5333.6	4989.5	4471.3	3808.5	3708.7	2975.9
12.5°	6083.5	6098.3	6115.3	6145.1	6096.2	5958.1	5633.1	5068.1	4324.7	4214.2	3298.7
15°	6423.3	6427.6	6491.3	6606.0	6646.3	6574.1	6278.9	5645.9	4834.5	4738.9	3670.5
17.5°	6525.3	6533.8	6642.1	6852.4	7064.8	7105.2	6882.1	6227.9	5335.8	5233.8	4031.6
20°	6739.8	6758.9	6839.6	7024.4	7292.1	7508.7	7421.6	6816.3	5837.1	5703.2	4401.2
22.5°	7415.3	7425.9	7398.3	7421.6	7559.7	7810.4	7863.5	7385.5	6351.1	6208.8	4800.5
25°	8577.2	8581.4	8388.1	8205.4	8101.4	8148.1	8264.9	7910.2	6860.9	6720.7	5172.2
27.5°	9783.7	9798.5	9567.0	9256.9	8885.2	8672.7	8638.8	8390.2	7374.9	7219.9	5539.7
30°	10920.1	10920.1	10675.8	10297.7	9800.6	9386.4	9142.2	8874.5	7925.1	7755.1	5915.6
32.5°	11941.8	11933.3	11621.0	11211.1	10720.4	10265.8	9751.8	9380.1	8536.8	8347.8	6349.0
35°	12785.0	12763.8	12409.1	12016.1	11491.4	11153.7	10580.2	9923.8	9199.5	9010.5	6795.0
37.5°	13422.3	13398.9	13073.9	12657.6	12171.2	11952.4	11472.3	10575.9	9898.4	9726.3	7289.9
40°	13768.5	13721.8	13496.6	13186.5	12778.7	12587.5	12387.8	11385.2	10720.4	10505.9	7874.1
42.5°	13870.4	13815.2	13666.5	13522.1	13275.7	13124.9	13339.4	12298.6	11623.1	11438.3	8541.0
45°	13568.8	13537.0	13524.2	13628.3	13672.9	13715.4	14244.3	13309.7	12619.3	12479.2	9380.1
47.5°	12842.4	12833.9	12946.5	13379.8	13851.3	14299.5	15227.8	14556.5	13910.8	13760.0	10552.6
50°	11499.9	11587.0	11901.4	12661.8	13604.9	14630.9	16147.5	16285.6	16000.9	15780.0	12081.9
52.5°	9401.3	9569.1	10274.3	11429.8	12785.0	14537.4	16572.3	17670.5	17961.5	17732.1	13178.0
55°	7377.0	7534.2	8163.0	9628.6	11436.2	13825.8	16591.4	18148.4	18783.5	18571.1	13919.3
57.5°	5495.1	5639.5	6210.9	7612.8	9601.0	12426.0	16136.9	18413.9	19758.5	19622.5	15089.7
60°	3591.9	3734.2	4250.3	5476.0	7447.1	10386.9	15017.5	18358.7	21086.0	21073.3	16527.7
62.5°	1992.4	2105.0	2478.8	3434.7	5197.7	8044.0	13258.7	17804.3	22371.1	22451.9	17713.0
65°	1019.6	1091.8	1319.1	1888.3	3145.8	5703.2	10945.5	16534.1	22965.9	23169.8	18025.2
67.5°	667.0	690.3	745.6	981.3	1684.4	3587.6	8237.3	14497.1	22129.0	22366.9	16978.0
70°	541.6	560.8	592.6	654.2	868.8	1905.3	5410.1	11578.5	18490.4	18651.8	13520.0
72.5°	397.2	422.7	484.3	524.7	626.6	1045.1	2814.4	7600.1	12697.9	12982.6	8496.4
75°	293.1	308.0	359.0	414.2	511.9	660.6	1076.9	3995.5	6557.1	6391.4	3568.5
77.5°	176.3	186.9	229.4	265.5	365.3	412.1	376.0	1476.3	1994.5	1875.6	862.4
80°	87.1	97.7	150.8	199.7	233.7	165.7	157.2	412.1	443.9	443.9	216.7
82.5°	29.7	38.2	80.7	131.7	114.7	63.7	74.3	106.2	119.0	125.3	63.7
85°	0.0	0.0	19.1	38.2	17.0	8.5	19.1	23.4	29.7	31.9	21.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.4	8.5	8.5
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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CATALOG NUMBER: GWS-SA5D-735-U-T2R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6
2.5°	2170.8	2071.0	1920.2	1784.3	1680.2	1582.5	1508.1	1448.6	1438.0	1404.0	1408.3
5°	2268.6	2088.0	1809.7	1595.2	1444.4	1342.4	1257.5	1193.8	1166.1	1138.5	1117.3
7.5°	2419.4	2158.1	1767.3	1506.0	1329.7	1172.5	1040.8	934.6	883.6	851.8	830.5
10°	2604.2	2255.8	1769.4	1452.9	1191.6	951.6	771.1	654.2	599.0	582.0	579.9
12.5°	2825.1	2379.0	1786.4	1365.8	992.0	707.3	571.4	518.3	501.3	486.4	486.4
15°	3058.7	2517.1	1786.4	1206.5	756.2	552.3	494.9	460.9	439.7	431.2	426.9
17.5°	3305.1	2646.6	1743.9	987.7	579.9	486.4	439.7	407.8	390.8	378.1	373.8
20°	3568.5	2769.8	1637.7	756.2	497.0	435.4	390.8	359.0	342.0	329.2	329.2
22.5°	3836.1	2884.5	1465.6	582.0	439.7	386.6	344.1	314.4	297.4	284.6	284.6
25°	4084.7	2961.0	1244.7	480.0	397.2	344.1	305.9	276.1	257.0	248.5	244.3
27.5°	4316.2	3009.9	1000.5	422.7	356.9	308.0	267.6	240.0	225.2	218.8	214.5
30°	4556.2	3022.6	764.7	384.5	322.9	271.9	233.7	212.4	199.7	191.2	191.2
32.5°	4789.9	3007.7	584.1	352.6	293.1	240.0	208.2	189.0	178.4	172.1	169.9
35°	5027.8	2939.8	473.7	325.0	263.4	210.3	184.8	169.9	163.6	155.1	155.1
37.5°	5286.9	2848.4	412.1	297.4	233.7	189.0	165.7	155.1	146.6	140.2	138.1
40°	5609.8	2742.2	378.1	274.0	206.0	169.9	148.7	138.1	131.7	125.3	123.2
42.5°	5992.1	2638.1	361.1	248.5	184.8	150.8	133.8	121.1	114.7	106.2	104.1
45°	6533.8	2614.8	342.0	220.9	165.7	135.9	116.8	104.1	95.6	89.2	87.1
47.5°	7404.7	2680.6	310.1	191.2	146.6	119.0	99.8	89.2	78.6	72.2	68.0
50°	8269.2	2663.6	278.3	165.7	129.6	102.0	85.0	74.3	63.7	57.4	55.2
52.5°	8740.7	2582.9	248.5	146.6	112.6	87.1	72.2	59.5	53.1	46.7	44.6
55°	9167.7	2551.1	218.8	127.4	95.6	76.5	59.5	48.9	44.6	38.2	36.1
57.5°	10004.6	2625.4	193.3	110.5	82.8	65.8	51.0	40.4	36.1	29.7	27.6
60°	10879.7	2633.9	165.7	95.6	72.2	55.2	40.4	31.9	27.6	21.2	19.1
62.5°	11336.4	2419.4	135.9	80.7	59.5	46.7	34.0	25.5	21.2	12.7	12.7
65°	10954.0	1956.3	114.7	65.8	46.7	36.1	25.5	19.1	12.7	6.4	2.1
67.5°	9694.4	1391.3	95.6	53.1	34.0	25.5	19.1	12.7	2.1	0.0	0.0
70°	7098.8	794.4	74.3	38.2	25.5	17.0	12.7	6.4	0.0	0.0	0.0
72.5°	4362.9	424.8	55.2	25.5	19.1	12.7	10.6	4.2	0.0	0.0	0.0
75°	1654.7	203.9	34.0	17.0	14.9	10.6	6.4	2.1	0.0	0.0	0.0
77.5°	448.2	99.8	19.1	12.7	10.6	6.4	4.2	0.0	0.0	0.0	0.0
80°	116.8	46.7	12.7	8.5	6.4	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	40.4	21.2	6.4	6.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
85°	17.0	8.5	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.1	2.1	2.1	2.1	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)