

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: P642945

Luminaire Tested: GWS-SA6D-830-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-830-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

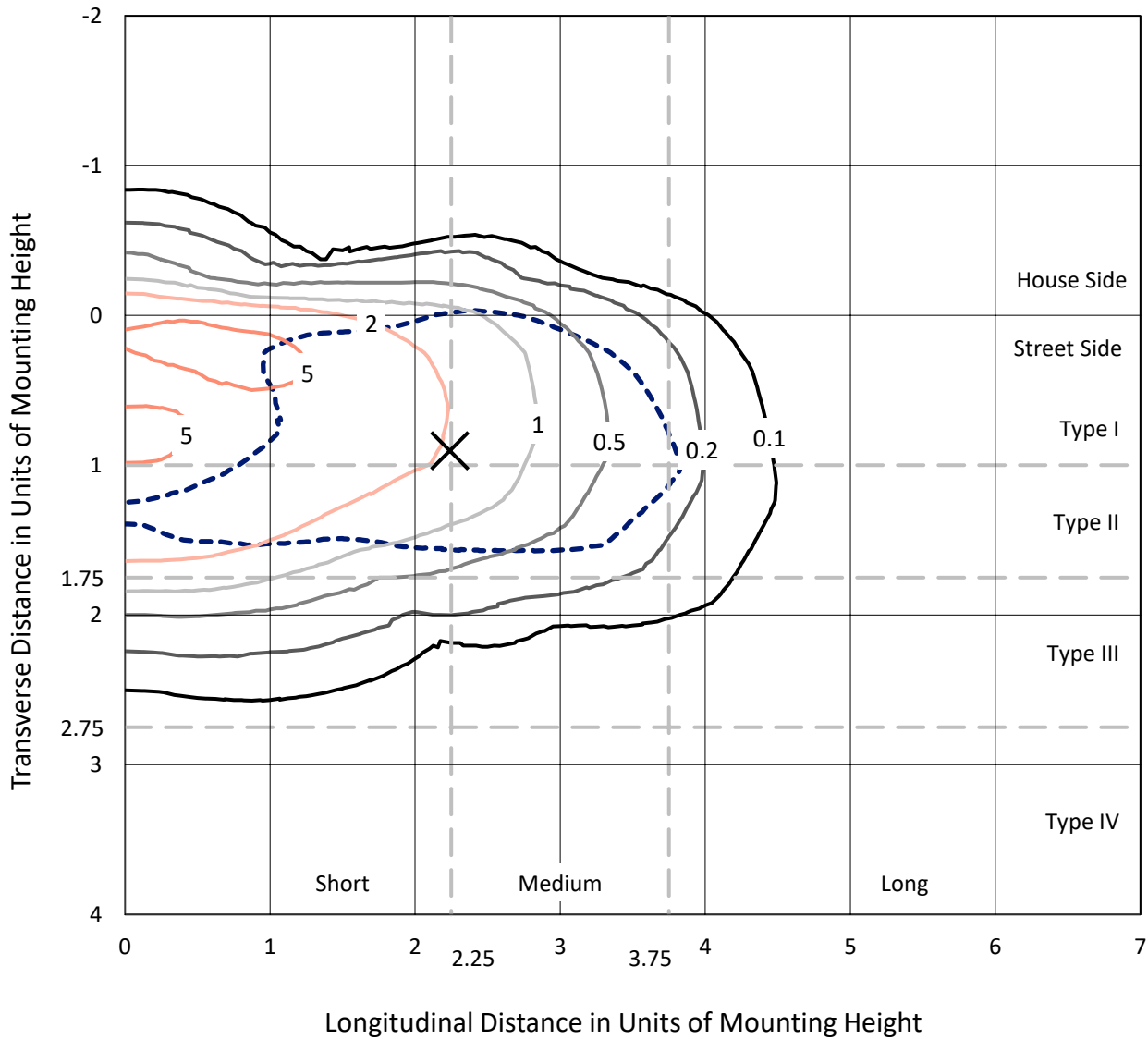
Lumens per Lamp: N/A  
Luminaire Lumens: 21315.5 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

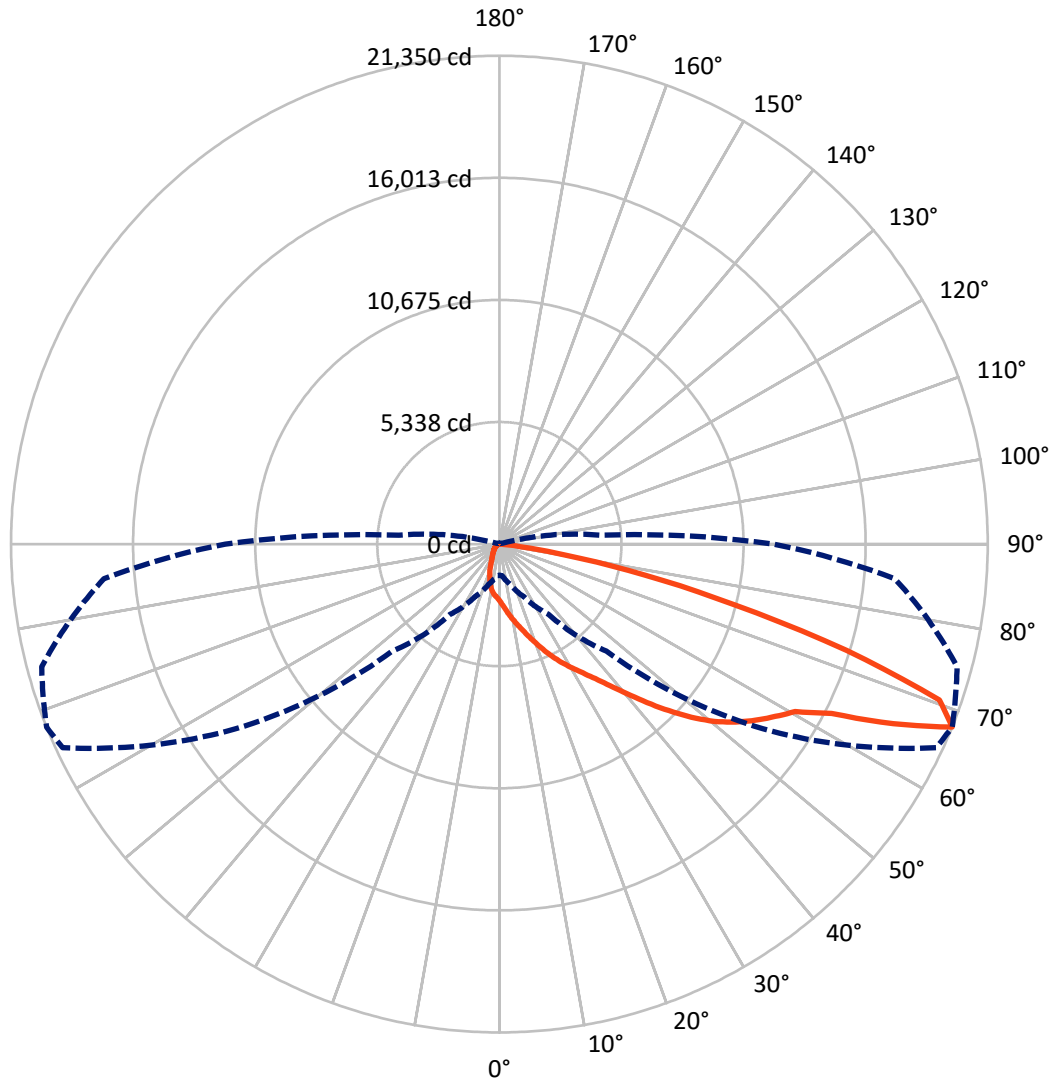
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P642945  
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

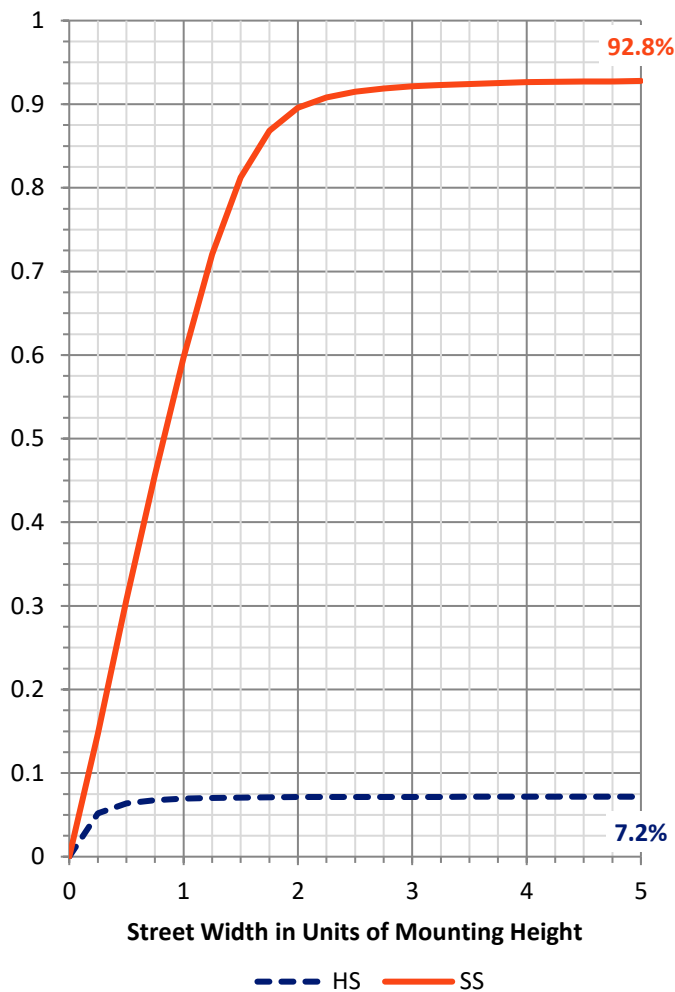
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1539.2	0.0	1539.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19776.3	0.0	19776.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	21315.5	0.0	21315.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.9	1.1
10°-20°	694.8	3.3
20°-30°	1193.9	5.6
30°-40°	2075.8	9.7
40°-50°	3622.1	17.0
50°-60°	5463.0	25.6
60°-70°	5478.0	25.7
70°-80°	2416.9	11.3
80°-90°	129.1	0.6
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°	21315.5	100.0
0°-180°	21315.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642945

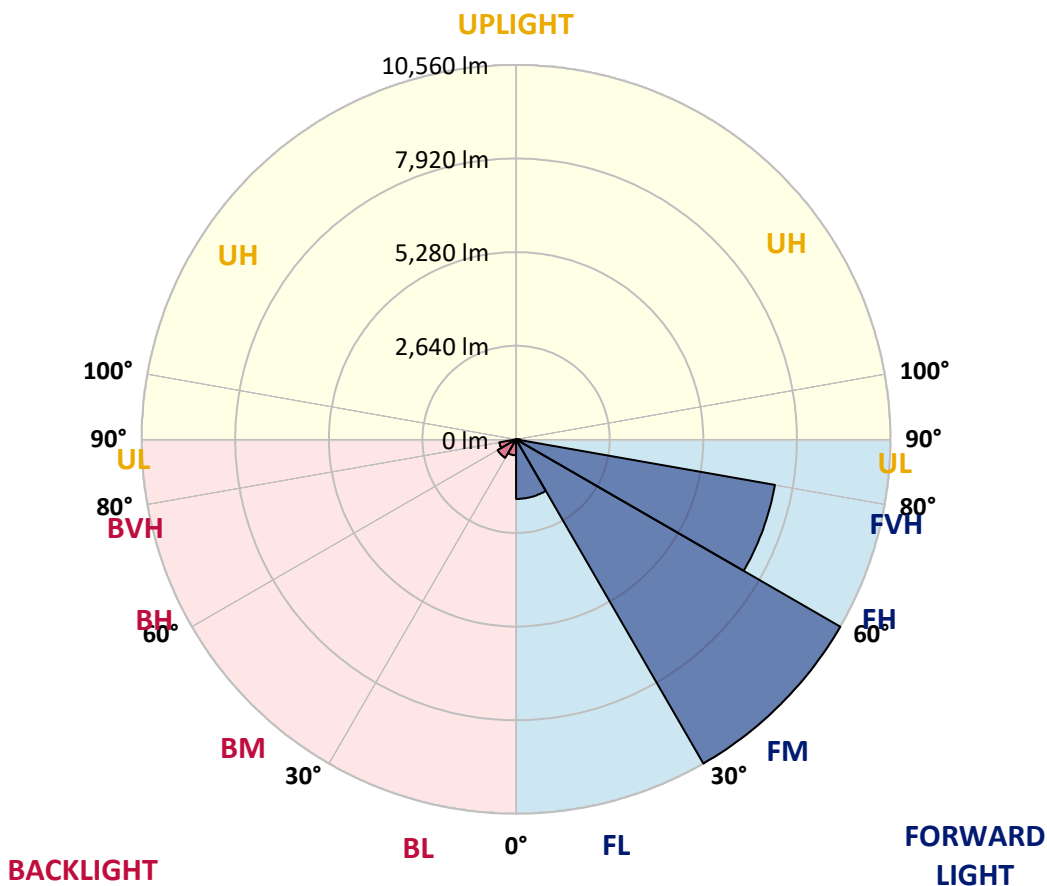
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.3	7.9			
FM (30°-60°)	10559.7	49.5			
FH (60°-80°)	7414.5	34.8			G3/7500
FVH (80°-90°)	121.8	0.6			G2/225
BL (0°-30°)	450.3	2.1	B1/500		
BM (30°-60°)	601.3	2.8	B1/1000		
BH (60°-80°)	480.4	2.3	B1/500		G1/500
BVH (80°-90°)	7.3	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





REPORT NUMBER: P642945

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6
2.5°	2888.6	2906.9	2888.6	2892.7	2839.6	2815.1	2762.1	2688.7	2670.3	2623.4	2552.0
5°	3241.5	3257.8	3239.4	3235.4	3174.2	3129.3	3041.6	2915.1	2878.4	2786.6	2645.8
7.5°	3433.2	3443.4	3449.6	3459.8	3437.3	3400.6	3321.0	3164.0	3125.2	2976.3	2778.4
10°	3453.6	3461.8	3492.4	3553.6	3598.5	3620.9	3576.0	3431.2	3370.0	3225.2	2941.6
12.5°	3396.5	3408.8	3457.7	3559.7	3684.2	3798.4	3827.0	3700.5	3645.4	3459.8	3133.4
15°	3321.0	3331.2	3398.6	3537.3	3725.0	3935.1	4053.4	3998.3	3937.1	3743.3	3345.5
17.5°	3204.8	3219.0	3312.9	3500.6	3743.3	4043.2	4298.2	4316.5	4273.7	4063.6	3580.1
20°	3139.5	3149.7	3233.3	3427.1	3731.1	4122.7	4526.7	4700.1	4653.1	4432.8	3849.4
22.5°	3194.6	3202.7	3257.8	3408.8	3690.3	4167.6	4738.8	5083.6	5057.0	4828.6	4132.9
25°	3484.2	3510.8	3478.1	3504.6	3708.6	4192.1	4910.2	5467.1	5473.2	5242.7	4426.7
27.5°	4071.7	4037.1	3959.5	3827.0	3851.4	4257.4	5057.0	5828.1	5881.2	5646.6	4687.8
30°	4669.5	4649.1	4602.1	4396.1	4224.7	4402.2	5181.5	6197.4	6281.0	6044.4	4920.4
32.5°	5340.6	5361.0	5277.4	5030.5	4738.8	4696.0	5310.0	6548.2	6705.3	6495.2	5193.7
35°	6142.3	6148.4	5983.2	5709.8	5379.4	5181.5	5540.5	6935.8	7225.5	7070.5	5558.9
37.5°	6923.6	6960.3	6870.6	6440.1	6146.4	5785.3	5922.0	7433.6	7841.6	7780.4	6017.9
40°	7615.1	7672.3	7643.7	7227.6	6842.0	6538.0	6513.6	8017.0	8586.2	8655.5	6623.7
42.5°	8165.9	8202.6	8225.1	7929.3	7588.6	7417.3	7243.9	8694.3	9465.4	9748.9	7366.3
45°	8747.3	8759.6	8806.5	8606.6	8308.7	8323.0	8106.8	9516.4	10391.5	10960.7	8219.0
47.5°	9487.8	9528.6	9506.2	9296.1	9026.8	9187.9	8998.2	10363.0	11305.4	12254.0	9092.1
50°	10389.5	10432.3	10411.9	10167.1	9867.3	9934.6	9816.3	11185.1	12186.7	13473.9	9818.3
52.5°	10854.6	10889.3	11142.2	11252.4	11095.3	10666.9	10513.9	12088.8	12931.3	14477.5	10485.4
55°	10630.2	10654.7	11205.5	11670.6	12245.8	11817.4	11215.7	12786.4	13588.1	15260.9	10981.1
57.5°	9700.0	9832.6	10581.2	11368.7	12578.3	12953.7	12354.0	13545.3	14220.5	15805.6	11468.6
60°	7792.6	7786.5	8859.5	10273.2	11929.6	13265.8	13961.4	14571.4	14854.9	16223.7	12121.4
62.5°	4306.3	4345.1	5773.1	7635.5	10126.3	12458.0	15167.0	16344.1	16301.3	16954.0	13143.4
65°	2144.0	2221.5	2996.7	4373.7	6738.0	10295.6	15375.1	19049.1	18926.7	18673.7	15254.8
67.5°	1360.6	1391.2	1819.6	2541.8	3745.4	6617.6	14079.8	21066.6	21350.1	20713.7	17349.8
70°	881.3	932.3	1264.8	1738.0	2260.3	3410.8	10314.0	19759.0	20409.7	20489.3	16044.2
72.5°	479.4	516.1	807.8	1240.3	1632.0	1705.4	5793.5	14828.4	15874.9	17380.4	12551.8
75°	273.4	299.9	442.7	842.5	1197.5	1038.3	2568.3	9926.4	10593.5	12421.3	8994.2
77.5°	165.2	187.7	248.9	410.0	750.7	693.6	971.0	6042.3	6466.6	7411.1	4720.5
80°	75.5	89.8	157.1	226.4	410.0	328.4	371.3	2817.2	2909.0	3041.6	1562.6
82.5°	34.7	40.8	71.4	134.6	232.6	189.7	142.8	650.7	915.9	867.0	397.8
85°	4.1	4.1	26.5	55.1	65.3	49.0	59.2	146.9	185.6	261.1	114.2
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	12.2	18.4	26.5	42.8	28.6
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: P642945

CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6
2.5°	2519.3	2462.2	2411.2	2335.7	2284.7	2227.6	2188.9	2142.0	2123.6	2109.3	2088.9
5°	2576.5	2484.7	2360.2	2221.5	2107.3	1999.2	1899.2	1833.9	1776.8	1768.6	1740.1
7.5°	2670.3	2533.6	2323.5	2097.1	1903.3	1723.8	1583.0	1468.8	1411.6	1393.3	1360.6
10°	2794.7	2607.1	2268.4	1921.6	1642.2	1428.0	1268.9	1140.3	1050.6	1017.9	993.5
12.5°	2933.5	2674.4	2180.7	1705.4	1387.2	1142.4	940.4	803.7	746.6	726.2	707.9
15°	3092.6	2737.6	2042.0	1489.2	1138.3	840.5	697.7	638.5	614.0	607.9	601.8
17.5°	3245.6	2778.4	1876.8	1264.8	875.1	652.8	585.5	563.0	556.9	550.8	546.7
20°	3419.0	2807.0	1683.0	1052.6	679.3	552.8	520.2	503.9	491.6	479.4	477.3
22.5°	3596.4	2807.0	1472.8	844.5	569.1	495.7	459.0	428.4	406.0	393.7	389.6
25°	3765.8	2768.2	1264.8	675.2	501.8	440.6	393.7	359.0	328.4	314.2	310.1
27.5°	3886.1	2668.3	1083.2	571.2	454.9	391.7	334.6	295.8	271.3	257.0	255.0
30°	3961.6	2519.3	915.9	510.0	414.1	340.7	283.6	250.9	232.6	222.4	218.3
32.5°	4018.7	2335.7	767.0	467.1	375.4	295.8	246.8	220.3	204.0	195.8	193.8
35°	4132.9	2162.3	656.9	428.4	334.6	259.1	216.2	195.8	183.6	173.4	171.4
37.5°	4292.1	2017.5	569.1	393.7	295.8	230.5	195.8	177.5	167.3	157.1	155.0
40°	4526.7	1925.7	503.9	359.0	261.1	208.1	179.5	163.2	148.9	138.7	136.7
42.5°	4887.7	1882.9	461.0	324.4	230.5	187.7	165.2	144.8	130.6	120.4	118.3
45°	5318.2	1905.3	424.3	289.7	210.1	173.4	146.9	126.5	112.2	102.0	100.0
47.5°	5779.2	1984.9	393.7	257.0	189.7	159.1	130.6	108.1	95.9	85.7	83.6
50°	6260.6	2115.4	367.2	226.4	173.4	142.8	112.2	93.8	81.6	73.4	71.4
52.5°	6678.8	2292.9	340.7	204.0	159.1	126.5	97.9	81.6	69.4	61.2	59.2
55°	7078.6	2460.2	320.3	183.6	142.8	110.2	85.7	69.4	59.2	51.0	49.0
57.5°	7513.1	2637.7	295.8	165.2	128.5	97.9	75.5	59.2	51.0	42.8	40.8
60°	8145.5	2900.8	259.1	151.0	112.2	85.7	65.3	53.0	44.9	34.7	32.6
62.5°	9057.4	3380.2	218.3	130.6	95.9	73.4	55.1	44.9	36.7	28.6	24.5
65°	10762.8	4196.2	179.5	108.1	77.5	61.2	46.9	36.7	28.6	20.4	18.4
67.5°	11990.8	4408.3	144.8	87.7	63.2	46.9	38.8	28.6	20.4	14.3	12.2
70°	10483.3	3166.0	112.2	71.4	53.0	36.7	30.6	22.4	14.3	10.2	8.2
72.5°	7898.7	2068.5	83.6	55.1	40.8	30.6	22.4	18.4	12.2	8.2	6.1
75°	5567.0	1195.4	61.2	40.8	28.6	22.4	18.4	14.3	10.2	6.1	6.1
77.5°	2853.9	493.7	42.8	28.6	20.4	14.3	12.2	8.2	8.2	6.1	4.1
80°	867.0	163.2	24.5	18.4	14.3	10.2	6.1	6.1	6.1	4.1	2.0
82.5°	197.9	53.0	14.3	14.3	10.2	8.2	6.1	2.0	2.0	0.0	0.0
85°	51.0	16.3	12.2	10.2	10.2	8.2	4.1	2.0	0.0	0.0	0.0
87.5°	18.4	10.2	10.2	10.2	8.2	6.1	4.1	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)