

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: P637646

Luminaire Tested: GWS-SA4D-730-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

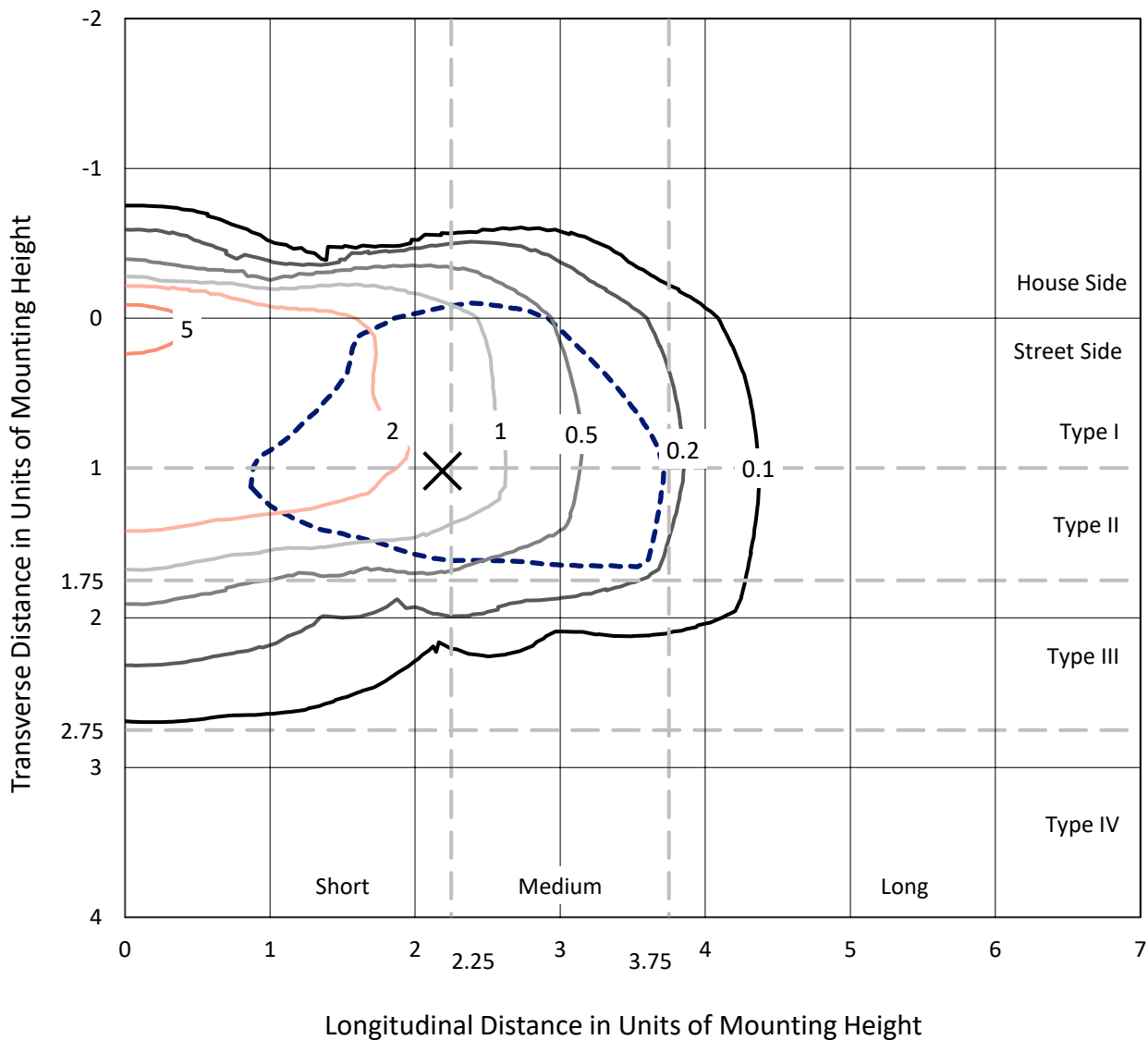
Lumens per Lamp: N/A  
Luminaire Lumens: 17677.6 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637646  
 CATALOG NUMBER: GWS-SA4D-730-U-SL2-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

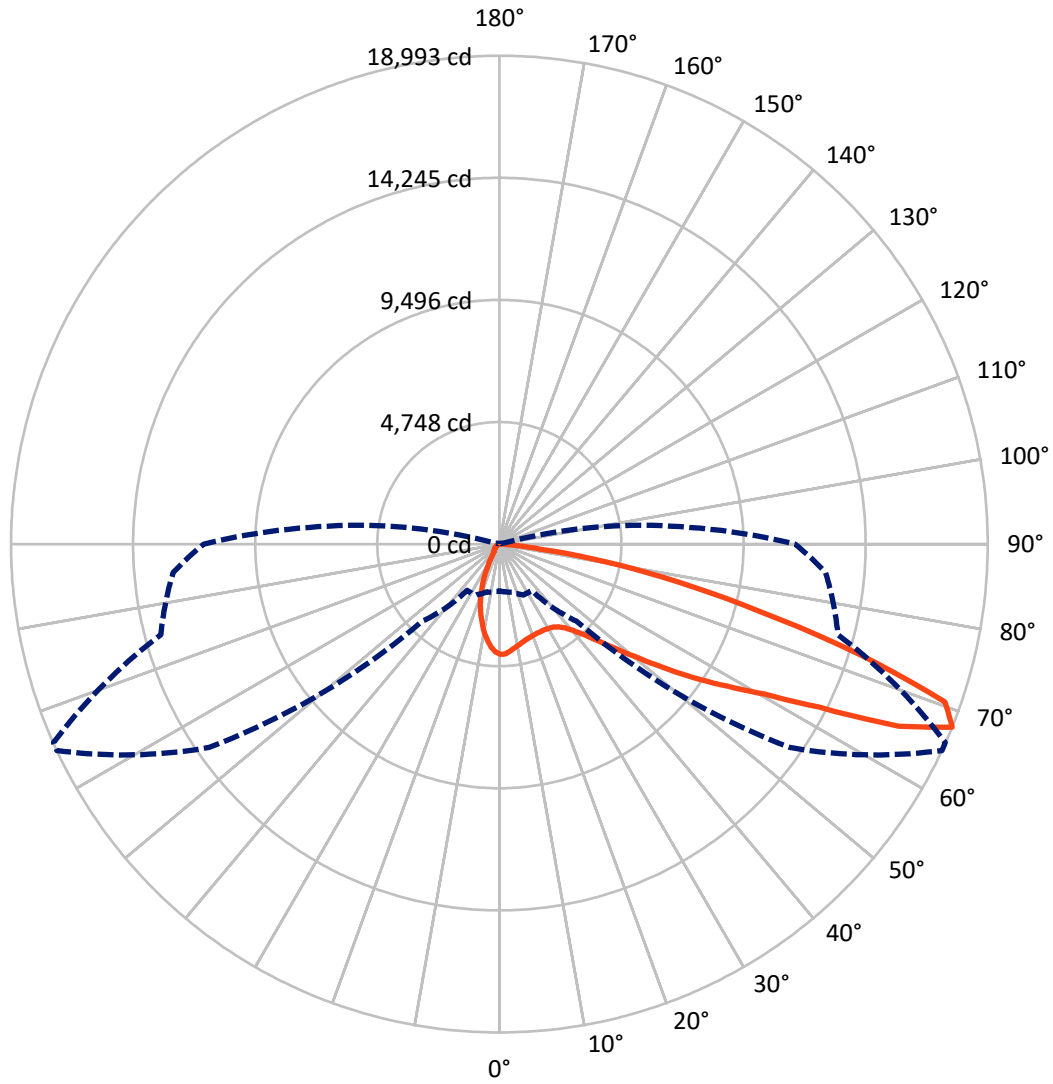
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P637646  
CATALOG NUMBER: GWS-SA4D-730-U-SL2-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637646  
 CATALOG NUMBER: GWS-SA4D-730-U-SL2-W-HSS

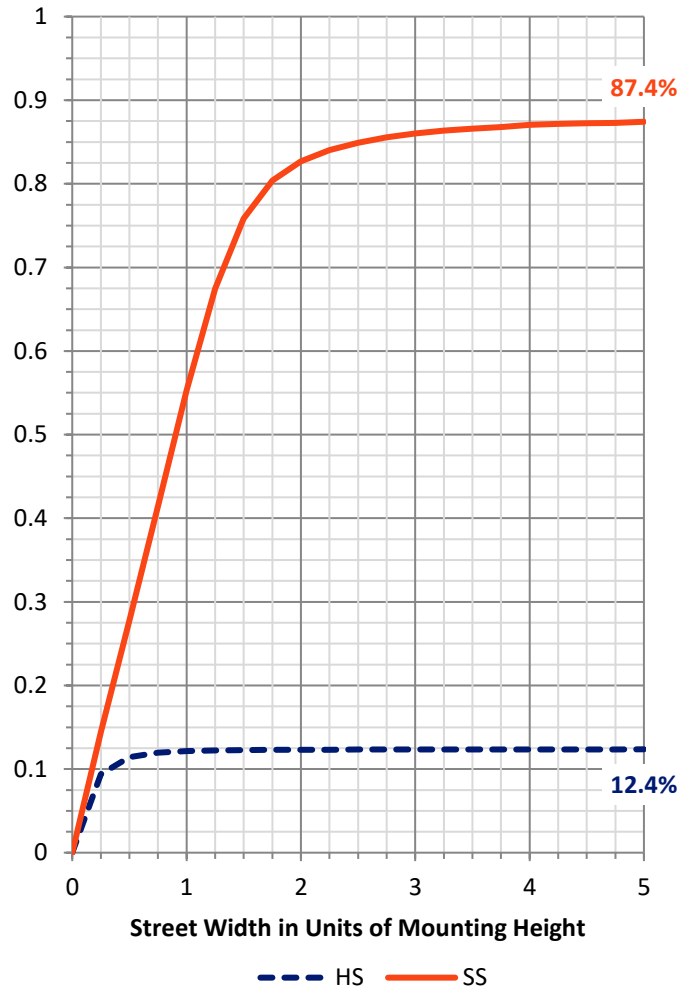
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2207.4	0.0	2207.4
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	15470.2	0.0	15470.2
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	17677.6	0.0	17677.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.1	2.0
10°-20°	800.5	4.5
20°-30°	1143.8	6.5
30°-40°	1664.1	9.4
40°-50°	2606.3	14.7
50°-60°	4065.9	23.0
60°-70°	4466.2	25.3
70°-80°	2376.9	13.4
80°-90°	197.9	1.1
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°	17677.6	100.0
0°-180°	17677.6	100.0

**Coefficient of Utilization**

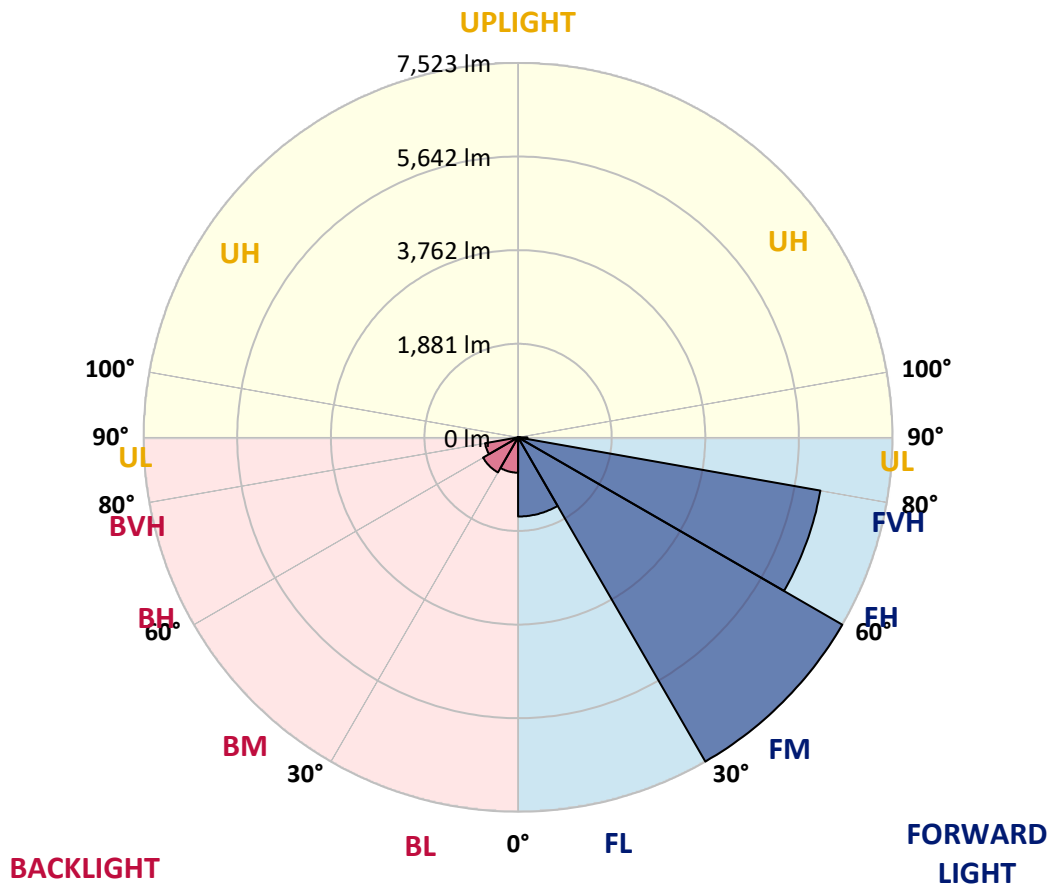


REPORT NUMBER: P637646  
 CATALOG NUMBER: GWS-SA4D-730-U-SL2-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1590.9	9.0			
FM (30°-60°)	7523.2	42.6			
FH (60°-80°)	6168.8	34.9			G3/7500
FVH (80°-90°)	187.3	1.1			G2/225
BL (0°-30°)	709.5	4.0	B2/1000		
BM (30°-60°)	813.1	4.6	B1/1000		
BH (60°-80°)	674.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Short





REPORT NUMBER: P637646

CATALOG NUMBER: GWS-SA4D-730-U-SL2-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4
2.5°	4138.7	4151.5	4133.9	4177.1	4185.1	4233.0	4260.2	4279.4	4277.8	4301.8	4301.8
5°	3895.7	3908.5	3898.9	3945.3	3982.0	4057.2	4119.5	4191.5	4194.7	4268.2	4295.4
7.5°	3689.5	3691.1	3691.1	3748.7	3796.6	3889.3	3982.0	4092.3	4105.1	4218.6	4290.6
10°	3520.1	3524.9	3526.5	3592.0	3644.7	3756.6	3874.9	4007.6	4022.0	4175.5	4287.4
12.5°	3403.4	3405.0	3411.4	3480.1	3537.6	3654.3	3774.2	3926.1	3945.3	4125.9	4273.0
15°	3347.4	3344.2	3347.4	3405.0	3462.5	3574.4	3697.5	3860.6	3881.3	4084.4	4274.6
17.5°	3344.2	3339.4	3336.2	3379.4	3416.2	3515.3	3640.0	3817.4	3839.8	4065.2	4292.2
20°	3390.6	3387.4	3371.4	3390.6	3398.6	3480.1	3603.2	3783.8	3806.2	4062.0	4330.5
22.5°	3512.1	3504.1	3480.1	3462.5	3419.3	3467.3	3577.6	3759.8	3785.4	4070.0	4380.1
25°	3692.7	3689.5	3659.1	3616.0	3505.7	3486.5	3579.2	3759.8	3783.8	4079.6	4432.8
27.5°	3964.5	3945.3	3906.9	3831.8	3673.5	3561.6	3611.2	3769.4	3793.4	4092.3	4476.0
30°	4241.0	4239.4	4226.6	4149.9	3914.9	3705.5	3678.3	3795.0	3817.4	4103.5	4516.0
32.5°	4527.2	4532.0	4563.9	4504.8	4247.4	3919.7	3799.8	3847.8	3863.8	4125.9	4551.1
35°	4798.9	4808.5	4893.2	4914.0	4651.8	4244.2	3998.0	3953.3	3954.9	4175.5	4597.5
37.5°	5059.5	5091.5	5227.3	5328.0	5155.4	4637.5	4284.2	4132.3	4119.5	4274.6	4667.8
40°	5355.2	5416.0	5587.0	5758.1	5703.7	5157.0	4674.2	4407.3	4380.1	4456.8	4794.1
42.5°	5682.9	5748.5	5975.5	6215.3	6240.8	5785.2	5161.8	4808.5	4762.2	4763.7	5030.7
45°	6034.6	6122.5	6386.3	6731.6	6886.7	6485.4	5762.9	5350.4	5304.1	5235.3	5411.2
47.5°	6496.6	6573.3	6827.5	7225.6	7522.9	7236.7	6551.0	6047.4	5962.7	5862.0	6002.6
50°	6894.6	6961.8	7180.8	7679.5	8298.2	8205.5	7444.6	6918.6	6837.1	6666.1	6782.7
52.5°	6982.6	7035.3	7236.7	7797.8	8891.3	9428.4	8539.6	7972.1	7914.5	7598.0	7642.8
55°	6587.7	6667.7	6848.3	7471.7	9046.3	10624.1	9960.7	9159.8	9039.9	8534.8	8614.7
57.5°	5590.2	5732.5	5901.9	6712.4	8625.9	11260.4	11946.1	10417.9	10309.2	9436.4	9438.0
60°	4097.1	4212.2	4325.7	5067.5	7628.4	11217.2	13747.7	11831.0	11632.8	10173.3	10146.1
62.5°	2979.7	3038.9	3037.3	3301.1	5238.5	10478.7	14694.1	13960.3	13498.4	10961.4	10806.4
65°	2343.5	2341.9	2410.6	2497.0	2925.4	8088.8	14810.8	17069.6	16570.8	12018.1	11695.2
67.5°	1824.0	1859.1	1927.9	2182.1	2198.0	4233.0	13784.5	18992.7	18983.1	13631.0	12735.8
70°	1406.7	1454.7	1552.2	1923.1	2030.2	2369.1	10314.0	18383.6	18538.7	14352.0	11998.9
72.5°	903.2	900.0	1043.9	1553.8	1950.3	1974.2	5703.7	14603.0	14778.8	12999.6	9701.7
75°	505.1	508.3	589.9	951.2	1817.6	1857.5	2824.7	10413.1	10552.2	10135.0	7454.1
77.5°	198.2	204.6	276.6	500.4	1198.9	1659.3	1678.5	7100.9	7121.6	6280.8	4571.9
80°	79.9	84.7	140.7	310.1	730.5	1117.4	1198.9	4183.5	4098.7	2431.4	1330.0
82.5°	24.0	25.6	56.0	175.8	382.1	794.5	808.9	1605.0	1515.4	522.7	338.9
85°	1.6	1.6	12.8	54.4	135.9	199.8	538.7	522.7	463.6	131.1	150.3
87.5°	0.0	0.0	1.6	1.6	3.2	6.4	57.5	95.9	97.5	24.0	67.1
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: P637646

CATALOG NUMBER: GWS-SA4D-730-U-SL2-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4	4287.4
2.5°	4301.8	4244.2	4239.4	4194.7	4149.9	4093.9	4028.4	3980.4	3946.9	3887.7	3876.5
5°	4295.4	4218.6	4146.7	4018.8	3876.5	3723.1	3588.8	3464.1	3385.8	3333.0	3310.6
7.5°	4282.6	4185.1	4018.8	3777.4	3539.2	3270.7	3061.3	2869.4	2738.4	2661.6	2628.1
10°	4273.0	4141.9	3871.7	3505.7	3136.4	2765.5	2447.4	2162.9	2004.6	1879.9	1859.1
12.5°	4253.8	4079.6	3683.1	3187.6	2711.2	2218.8	1812.8	1464.3	1222.9	1114.2	1075.8
15°	4234.6	4014.0	3494.5	2851.9	2247.6	1640.1	1147.8	812.1	645.8	594.7	591.5
17.5°	4231.4	3954.9	3289.9	2533.7	1761.6	1074.2	653.8	525.9	490.8	478.0	478.0
20°	4241.0	3905.3	3088.4	2167.7	1283.7	653.8	487.6	455.6	434.8	423.6	423.6
22.5°	4250.6	3854.2	2895.0	1798.4	852.0	478.0	430.0	402.8	378.9	366.1	359.7
25°	4257.0	3798.2	2680.8	1427.5	556.3	415.6	377.3	342.1	313.3	297.3	297.3
27.5°	4255.4	3731.1	2465.0	1064.7	431.6	369.3	322.9	286.1	257.4	239.8	241.4
30°	4242.6	3657.5	2241.2	743.3	377.3	322.9	276.6	238.2	209.4	195.0	193.4
32.5°	4233.0	3579.2	1982.2	522.7	338.9	282.9	235.0	198.2	174.2	163.1	161.5
35°	4221.8	3502.5	1736.1	398.0	305.3	244.6	198.2	167.9	148.7	139.1	139.1
37.5°	4225.0	3422.5	1469.1	342.1	271.8	212.6	169.4	143.9	127.9	118.3	116.7
40°	4274.6	3374.6	1206.9	310.1	241.4	183.8	147.1	124.7	108.7	99.1	97.5
42.5°	4397.7	3376.2	955.9	286.1	214.2	156.7	127.9	107.1	92.7	81.5	79.9
45°	4643.9	3443.3	733.7	260.6	185.4	135.9	110.3	91.1	76.7	67.1	65.5
47.5°	5046.7	3643.1	556.3	238.2	161.5	118.3	94.3	76.7	63.9	56.0	54.4
50°	5687.7	4004.4	438.0	211.0	135.9	102.3	79.9	63.9	52.8	44.8	43.2
52.5°	6458.2	4546.3	375.7	187.0	116.7	89.5	68.7	52.8	43.2	36.8	35.2
55°	7343.8	5193.8	346.9	163.1	99.1	76.7	56.0	43.2	35.2	30.4	27.2
57.5°	8155.9	5777.2	345.3	139.1	84.7	65.5	46.4	36.8	30.4	24.0	22.4
60°	8947.2	6264.8	324.5	115.1	73.5	54.4	40.0	30.4	25.6	20.8	19.2
62.5°	9665.0	6661.3	271.8	92.7	62.3	44.8	33.6	27.2	22.4	17.6	17.6
65°	10566.6	7166.4	207.8	75.1	51.2	36.8	28.8	24.0	20.8	16.0	16.0
67.5°	11498.5	7433.4	148.7	62.3	41.6	32.0	25.6	22.4	17.6	14.4	14.4
70°	10414.7	6280.8	107.1	51.2	35.2	27.2	22.4	20.8	17.6	14.4	12.8
72.5°	8133.5	4528.8	79.9	40.0	30.4	25.6	20.8	19.2	16.0	12.8	12.8
75°	6031.4	2640.8	60.7	32.0	24.0	20.8	20.8	19.2	16.0	12.8	11.2
77.5°	3278.7	920.8	46.4	25.6	19.2	16.0	17.6	17.6	14.4	11.2	9.6
80°	868.0	252.6	32.0	19.2	16.0	12.8	12.8	16.0	12.8	9.6	9.6
82.5°	252.6	73.5	22.4	16.0	12.8	11.2	11.2	11.2	9.6	8.0	6.4
85°	123.1	27.2	16.0	12.8	11.2	9.6	8.0	8.0	6.4	4.8	4.8
87.5°	54.4	11.2	12.8	11.2	11.2	8.0	6.4	4.8	4.8	3.2	1.6
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)