

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: P642234

Luminaire Tested: GWS-SA6C-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642234  
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-SA6C-740-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

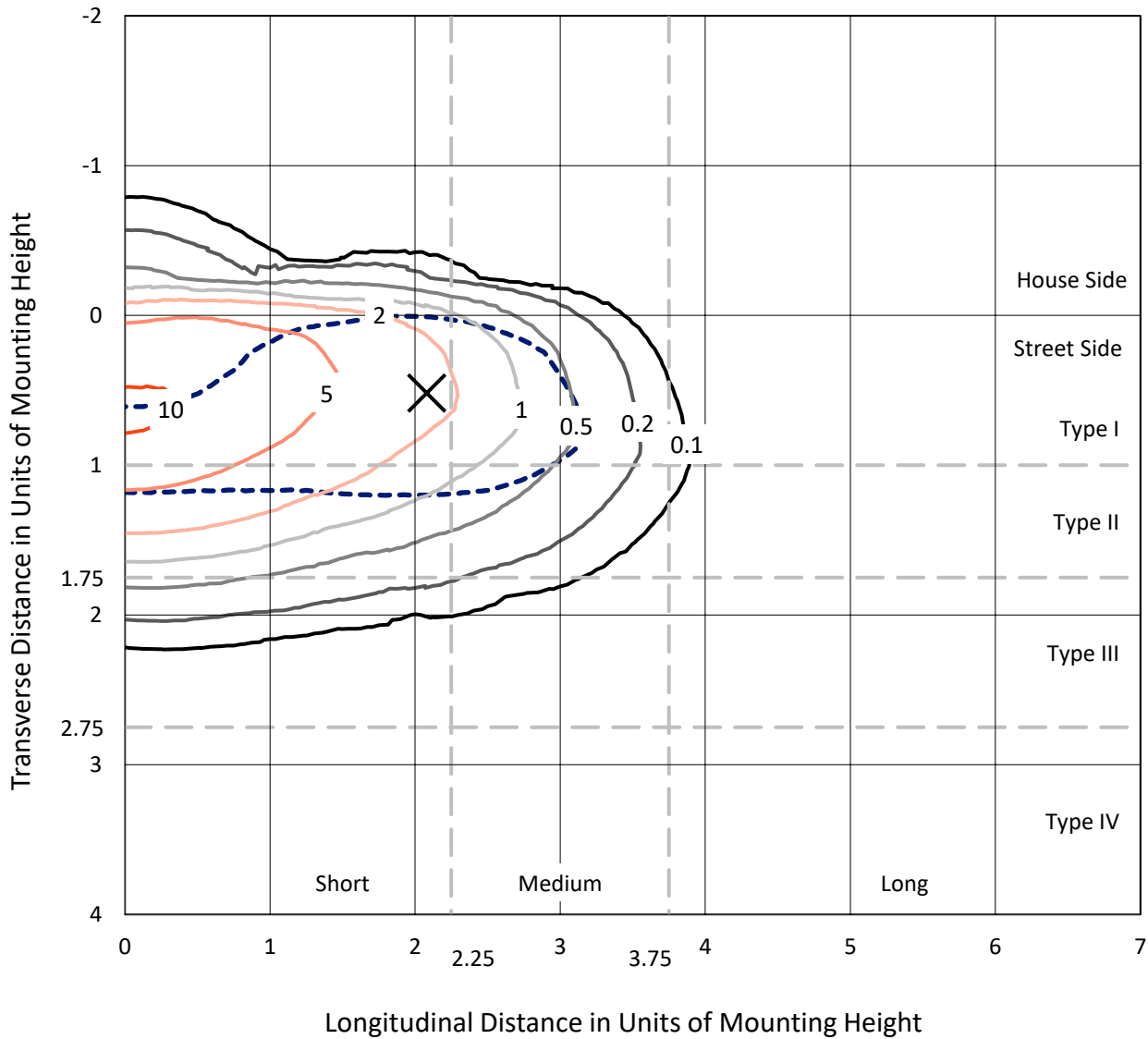
Lumens per Lamp: N/A  
Luminaire Lumens: 22899.8 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

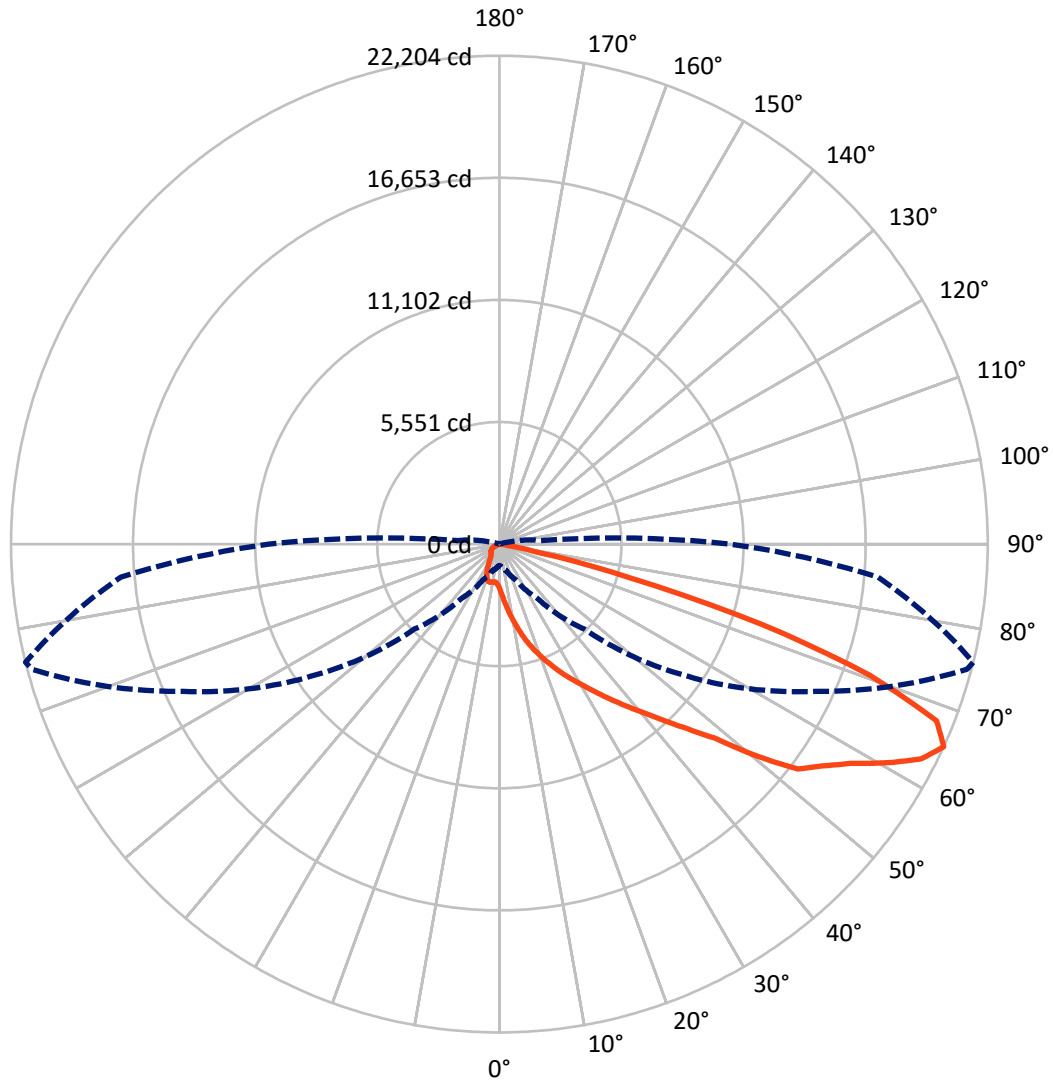
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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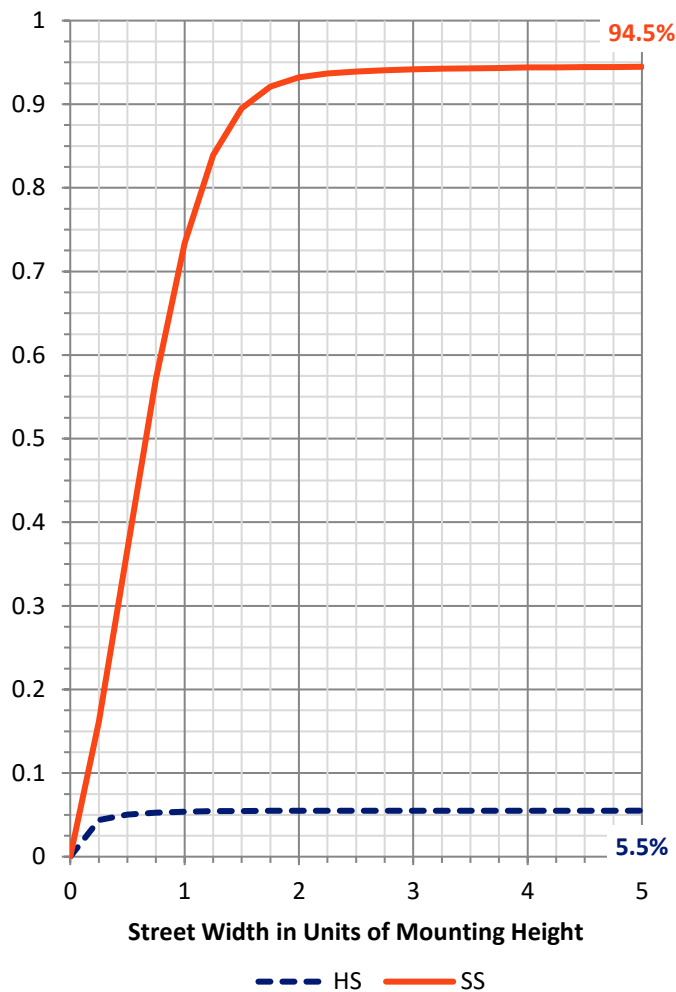
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1266.2	0.0	1266.2
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	21633.6	0.0	21633.6
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	22899.8	0.0	22899.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.6	1.1
10°-20°	935.9	4.1
20°-30°	1909.4	8.3
30°-40°	3395.9	14.8
40°-50°	5020.0	21.9
50°-60°	5747.5	25.1
60°-70°	4385.1	19.1
70°-80°	1228.4	5.4
80°-90°	30.9	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°	22899.8	100.0
0°-180°	22899.8	100.0

**Coefficient of Utilization**



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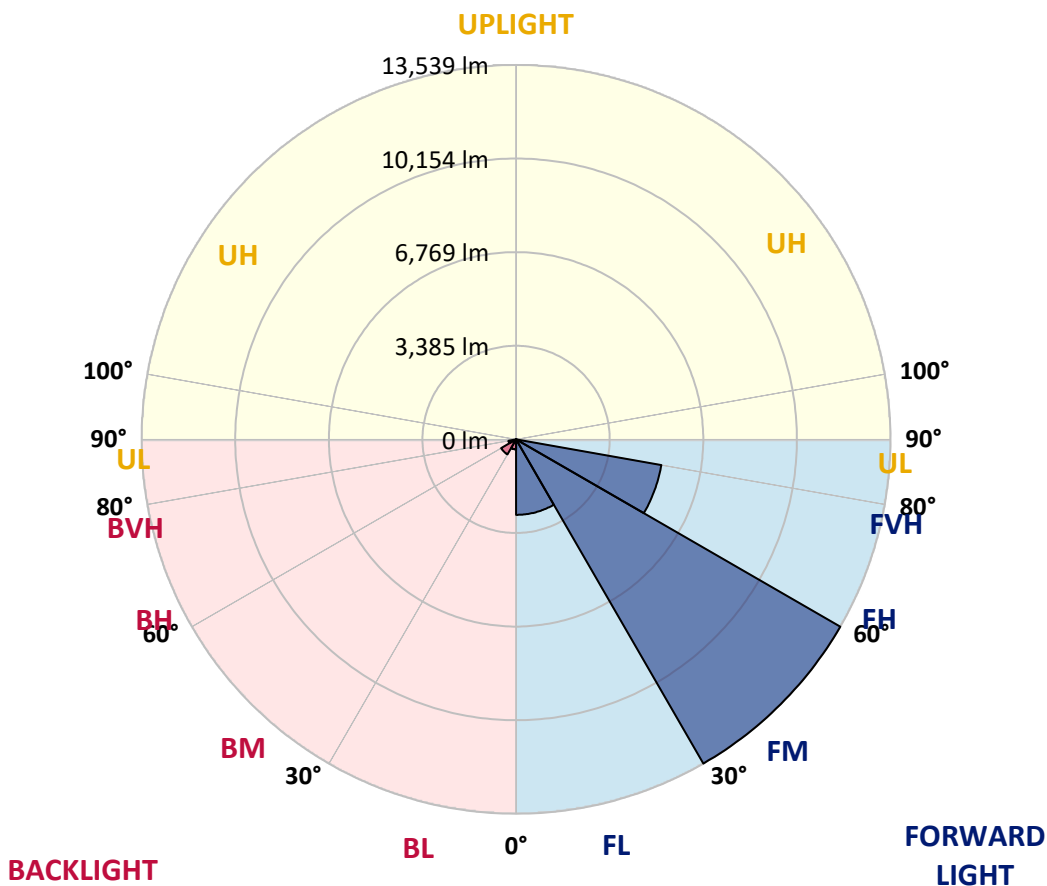
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.6	11.9			
FM (30°-60°)	13538.7	59.1			
FH (60°-80°)	5335.1	23.3			G3/7500
FVH (80°-90°)	29.1	0.1			G1/100
BL (0°-30°)	361.3	1.6	B1/500		
BM (30°-60°)	624.7	2.7	B1/1000		
BH (60°-80°)	278.4	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	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°	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5
2.5°	3124.7	3171.5	3134.8	3073.8	2955.7	2841.7	2695.1	2493.6	2332.8	2312.5	2161.8
5°	4219.8	4215.7	4136.4	4057.0	3932.8	3737.4	3442.2	3067.7	2707.4	2676.8	2338.9
7.5°	4871.2	4877.3	4832.5	4771.5	4649.3	4447.8	4140.4	3688.5	3161.3	3100.2	2581.2
10°	5418.8	5416.8	5384.2	5355.7	5245.8	5111.4	4781.6	4285.0	3649.8	3554.2	2851.9
12.5°	5830.0	5844.2	5860.5	5889.0	5842.2	5709.9	5398.4	4857.0	4144.5	4038.7	3161.3
15°	6155.7	6159.8	6220.8	6330.7	6369.4	6300.2	6017.3	5410.7	4633.0	4541.4	3517.5
17.5°	6253.4	6261.5	6365.4	6566.9	6770.4	6809.1	6595.4	5968.4	5113.5	5015.7	3863.6
20°	6459.0	6477.3	6554.7	6731.8	6988.2	7195.9	7112.4	6532.3	5593.9	5465.6	4217.8
22.5°	7106.3	7116.5	7090.0	7112.4	7244.7	7484.9	7535.8	7077.8	6086.5	5950.1	4600.5
25°	8219.8	8223.9	8038.6	7863.6	7763.8	7808.6	7920.6	7580.6	6575.0	6440.7	4956.7
27.5°	9376.0	9390.3	9168.4	8871.2	8515.0	8311.4	8278.8	8040.7	7067.6	6919.0	5308.9
30°	10465.1	10465.1	10231.0	9868.6	9392.3	8995.4	8761.3	8504.8	7594.9	7432.0	5669.2
32.5°	11444.2	11436.1	11136.8	10743.9	10273.7	9838.1	9345.5	8989.3	8181.1	7999.9	6084.4
35°	12252.3	12232.0	11892.0	11515.4	11012.7	10689.0	10139.4	9510.4	8816.2	8635.1	6511.9
37.5°	12863.0	12840.6	12529.2	12130.2	11664.0	11454.4	10994.3	10135.3	9485.9	9321.1	6986.2
40°	13194.8	13150.0	12934.3	12637.1	12246.2	12063.0	11871.7	10910.9	10273.7	10068.1	7546.0
42.5°	13292.5	13239.6	13097.1	12958.7	12722.6	12578.0	12783.6	11786.2	11138.9	10961.8	8185.2
45°	13003.5	12972.9	12960.7	13060.5	13103.2	13143.9	13650.8	12755.1	12093.6	11959.2	8989.3
47.5°	12307.3	12299.2	12407.0	12822.3	13274.2	13703.7	14593.3	13950.0	13331.2	13186.7	10112.9
50°	11020.8	11104.3	11405.5	12134.3	13038.1	14021.3	15474.7	15607.0	15334.3	15122.5	11578.5
52.5°	9009.6	9170.4	9846.2	10953.6	12252.3	13931.7	15881.8	16934.2	17213.1	16993.3	12628.9
55°	7069.7	7220.3	7822.8	9227.4	10959.7	13249.8	15900.1	17392.3	18000.9	17797.3	13339.4
57.5°	5266.1	5404.5	5952.1	7295.6	9201.0	11908.3	15464.5	17646.7	18935.2	18805.0	14461.0
60°	3442.2	3578.6	4073.3	5247.8	7136.8	9954.1	14391.8	17593.8	20207.5	20195.3	15839.1
62.5°	1909.4	2017.3	2375.6	3291.6	4981.1	7708.9	12706.3	17062.5	21439.0	21516.4	16975.0
65°	977.1	1046.3	1264.1	1809.7	3014.7	5465.6	10489.5	15845.2	22009.0	22204.4	17274.2
67.5°	639.2	661.6	714.5	940.5	1614.2	3438.1	7894.1	13893.0	21207.0	21435.0	16270.6
70°	519.1	537.4	567.9	627.0	832.6	1825.9	5184.7	11096.1	17720.0	17874.7	12956.7
72.5°	380.7	405.1	464.1	502.8	600.5	1001.5	2697.2	7283.4	12168.9	12441.6	8142.4
75°	280.9	295.2	344.0	396.9	490.6	633.1	1032.1	3829.0	6283.9	6125.2	3419.8
77.5°	169.0	179.1	219.8	254.5	350.1	394.9	360.3	1414.7	1911.4	1797.4	826.5
80°	83.5	93.6	144.5	191.3	223.9	158.8	150.6	394.9	425.4	425.4	207.6
82.5°	28.5	36.6	77.4	126.2	109.9	61.1	71.2	101.8	114.0	120.1	61.1
85°	0.0	0.0	18.3	36.6	16.3	8.1	18.3	22.4	28.5	30.5	20.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	8.1	8.1
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°	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5
2.5°	2080.4	1984.7	1840.2	1709.9	1610.2	1516.5	1445.3	1388.3	1378.1	1345.5	1349.6
5°	2174.0	2001.0	1734.3	1528.7	1384.2	1286.5	1205.1	1144.0	1117.5	1091.1	1070.7
7.5°	2318.6	2068.2	1693.6	1443.2	1274.3	1123.7	997.4	895.7	846.8	816.3	795.9
10°	2495.7	2161.8	1695.7	1392.4	1142.0	912.0	738.9	627.0	574.0	557.8	555.7
12.5°	2707.4	2279.9	1711.9	1308.9	950.6	677.9	547.6	496.7	480.4	466.2	466.2
15°	2931.3	2412.2	1711.9	1156.2	724.7	529.3	474.3	441.7	421.4	413.2	409.2
17.5°	3167.4	2536.4	1671.2	946.6	555.7	466.2	421.4	390.8	374.6	362.3	358.3
20°	3419.8	2654.4	1569.5	724.7	476.3	417.3	374.6	344.0	327.7	315.5	315.5
22.5°	3676.3	2764.4	1404.6	557.8	421.4	370.5	329.8	301.3	285.0	272.8	272.8
25°	3914.5	2837.6	1192.9	460.0	380.7	329.8	293.1	264.6	246.3	238.2	234.1
27.5°	4136.4	2884.5	958.8	405.1	342.0	295.2	256.5	230.0	215.8	209.7	205.6
30°	4366.4	2896.7	732.8	368.4	309.4	260.6	223.9	203.6	191.3	183.2	183.2
32.5°	4590.3	2882.4	559.8	337.9	280.9	230.0	199.5	181.2	171.0	164.9	162.8
35°	4818.3	2817.3	453.9	311.4	252.4	201.5	177.1	162.8	156.7	148.6	148.6
37.5°	5066.6	2729.8	394.9	285.0	223.9	181.2	158.8	148.6	140.5	134.4	132.3
40°	5376.0	2628.0	362.3	262.6	197.5	162.8	142.5	132.3	126.2	120.1	118.1
42.5°	5742.5	2528.2	346.1	238.2	177.1	144.5	128.2	116.0	109.9	101.8	99.7
45°	6261.5	2505.8	327.7	211.7	158.8	130.3	112.0	99.7	91.6	85.5	83.5
47.5°	7096.1	2568.9	297.2	183.2	140.5	114.0	95.7	85.5	75.3	69.2	65.1
50°	7924.6	2552.7	266.7	158.8	124.2	97.7	81.4	71.2	61.1	55.0	52.9
52.5°	8376.5	2475.3	238.2	140.5	107.9	83.5	69.2	57.0	50.9	44.8	42.7
55°	8785.7	2444.8	209.7	122.1	91.6	73.3	57.0	46.8	42.7	36.6	34.6
57.5°	9587.7	2516.0	185.2	105.9	79.4	63.1	48.9	38.7	34.6	28.5	26.5
60°	10426.4	2524.2	158.8	91.6	69.2	52.9	38.7	30.5	26.5	20.4	18.3
62.5°	10864.1	2318.6	130.3	77.4	57.0	44.8	32.6	24.4	20.4	12.2	12.2
65°	10497.6	1874.8	109.9	63.1	44.8	34.6	24.4	18.3	12.2	6.1	2.0
67.5°	9290.5	1333.3	91.6	50.9	32.6	24.4	18.3	12.2	2.0	0.0	0.0
70°	6803.0	761.3	71.2	36.6	24.4	16.3	12.2	6.1	0.0	0.0	0.0
72.5°	4181.1	407.1	52.9	24.4	18.3	12.2	10.2	4.1	0.0	0.0	0.0
75°	1585.7	195.4	32.6	16.3	14.2	10.2	6.1	2.0	0.0	0.0	0.0
77.5°	429.5	95.7	18.3	12.2	10.2	6.1	4.1	0.0	0.0	0.0	0.0
80°	112.0	44.8	12.2	8.1	6.1	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	38.7	20.4	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	8.1	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.0	2.0	2.0	2.0	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)