

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: P641959

Luminaire Tested: GWS-SA6B-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641959  
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-SA6B-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

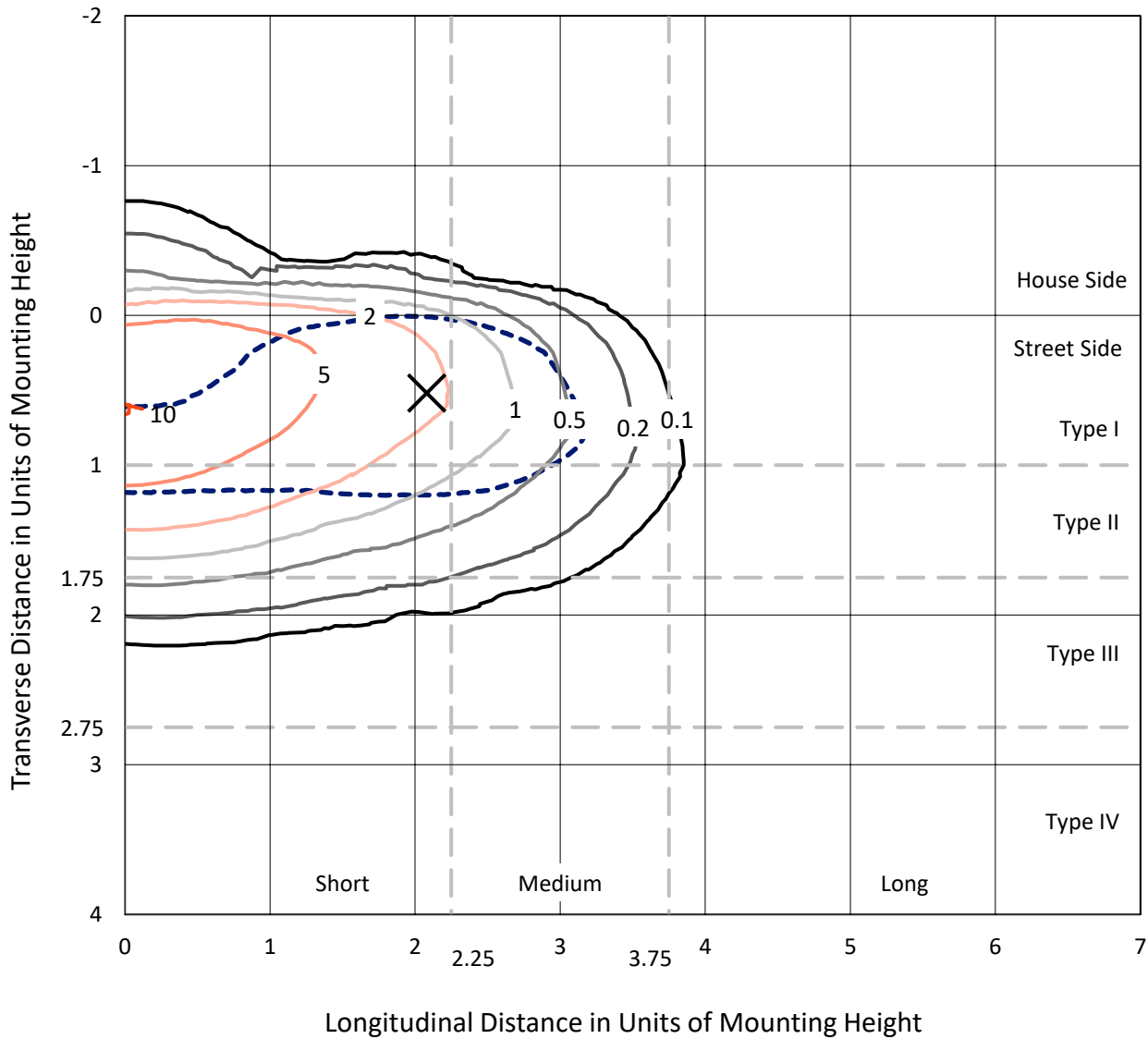
Lumens per Lamp: N/A  
Luminaire Lumens: 13564.4 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

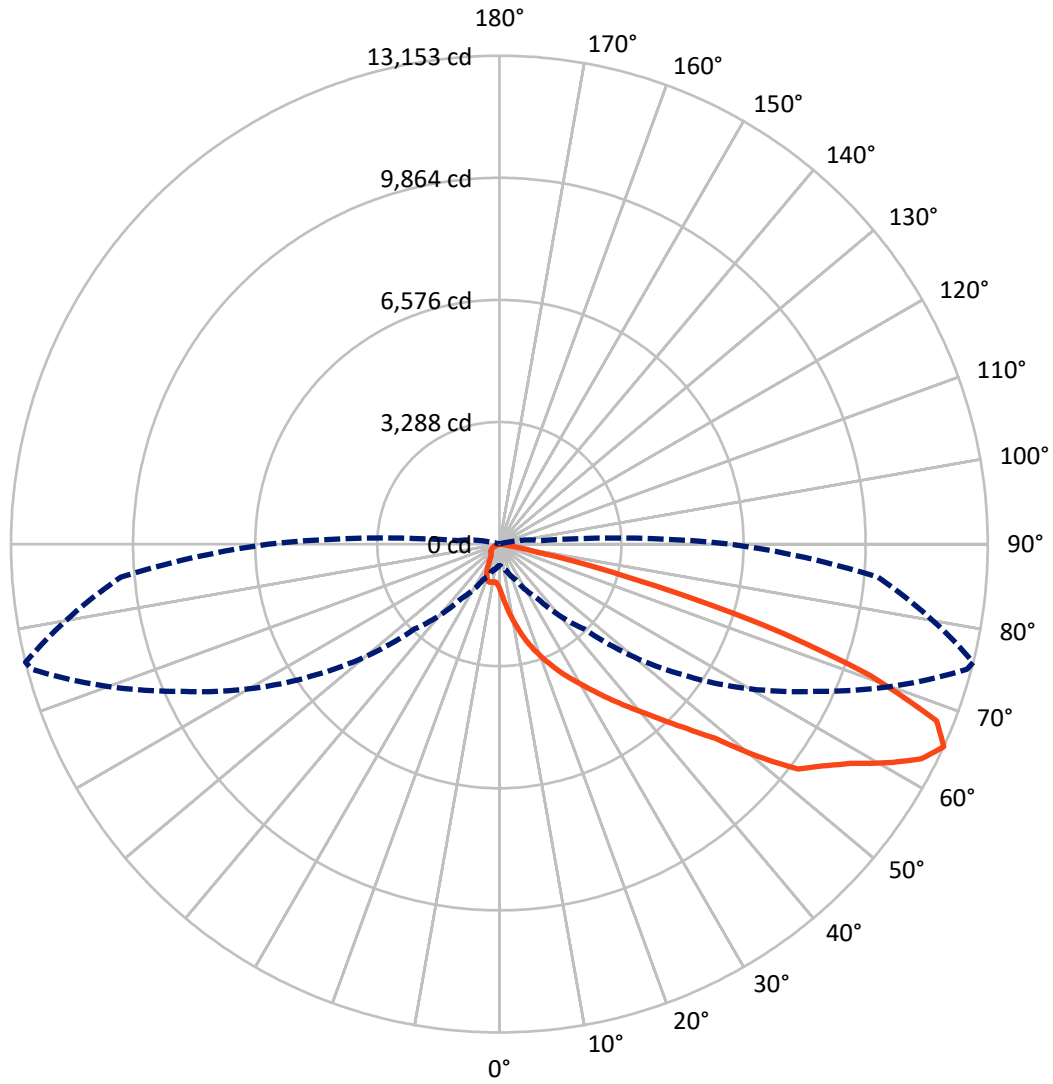
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 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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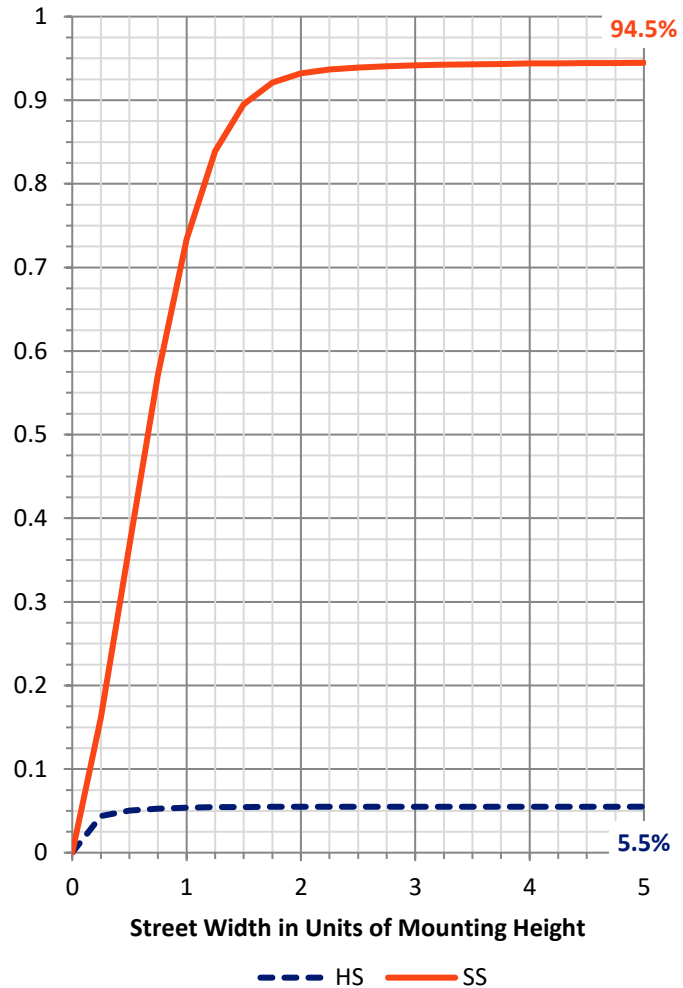
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	750.0	0.0	750.0
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	12814.4	0.0	12814.4
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	13564.4	0.0	13564.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	1.1
10°-20°	554.4	4.1
20°-30°	1131.0	8.3
30°-40°	2011.5	14.8
40°-50°	2973.5	21.9
50°-60°	3404.5	25.1
60°-70°	2597.5	19.1
70°-80°	727.6	5.4
80°-90°	18.3	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°	13564.4	100.0
0°-180°	13564.4	100.0

**Coefficient of Utilization**



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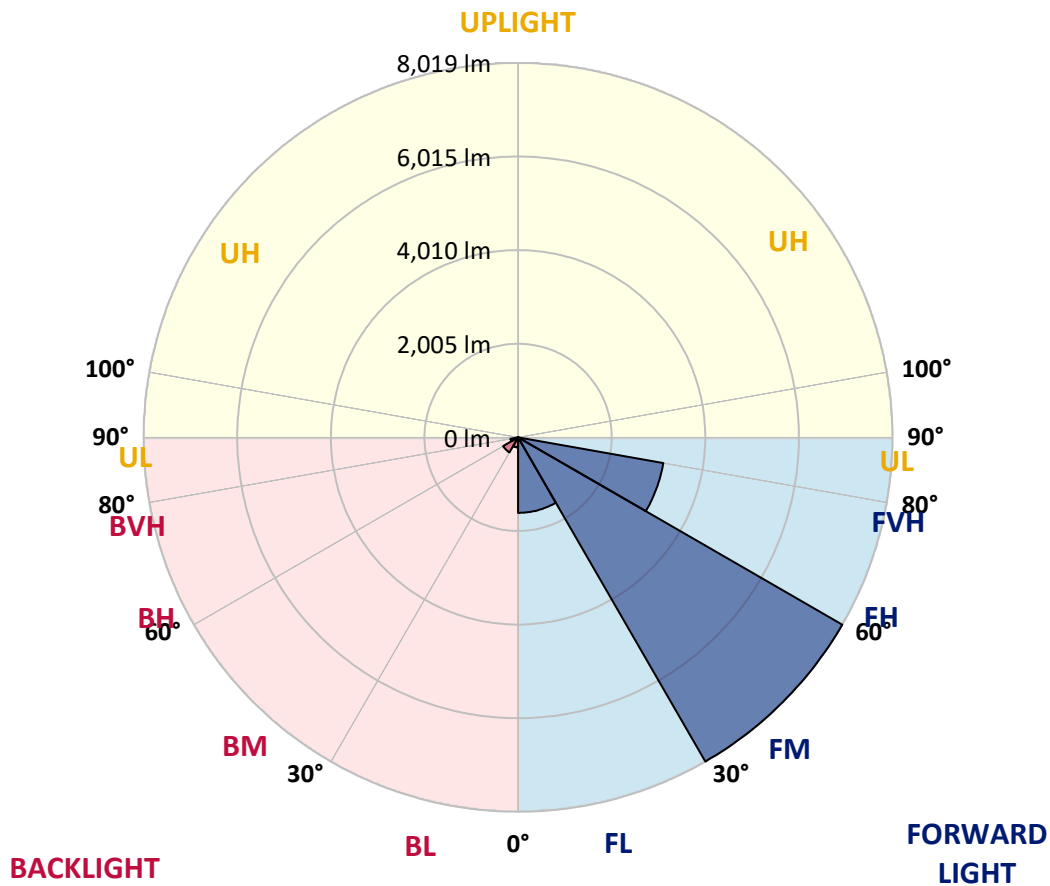
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1617.5	11.9			
FM (30°-60°)	8019.5	59.1			
FH (60°-80°)	3160.2	23.3			G2/5000
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	214.0	1.6	B1/500		
BM (30°-60°)	370.1	2.7	B1/1000		
BH (60°-80°)	164.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9
2.5°	1850.9	1878.6	1856.9	1820.7	1750.8	1683.3	1596.4	1477.1	1381.8	1369.8	1280.5
5°	2499.6	2497.1	2450.1	2403.1	2329.5	2213.8	2039.0	1817.1	1603.7	1585.6	1385.4
7.5°	2885.4	2889.0	2862.5	2826.3	2754.0	2634.6	2452.5	2184.9	1872.6	1836.4	1528.9
10°	3209.8	3208.5	3189.3	3172.4	3107.3	3027.7	2832.3	2538.1	2161.9	2105.3	1689.3
12.5°	3453.3	3461.8	3471.4	3488.3	3460.6	3382.2	3197.7	2877.0	2454.9	2392.2	1872.6
15°	3646.2	3648.7	3684.8	3749.9	3772.8	3731.8	3564.2	3204.9	2744.3	2690.1	2083.6
17.5°	3704.1	3708.9	3770.4	3889.8	4010.4	4033.3	3906.7	3535.3	3028.9	2971.0	2288.5
20°	3825.9	3836.8	3882.6	3987.5	4139.4	4262.4	4213.0	3869.3	3313.4	3237.5	2498.3
22.5°	4209.3	4215.4	4199.7	4213.0	4291.3	4433.6	4463.8	4192.5	3605.2	3524.5	2725.0
25°	4868.9	4871.3	4761.6	4657.9	4598.8	4625.3	4691.6	4490.3	3894.6	3815.0	2936.0
27.5°	5553.8	5562.2	5430.8	5254.7	5043.7	4923.1	4903.9	4762.8	4186.4	4098.4	3144.6
30°	6198.8	6198.8	6060.2	5845.6	5563.4	5328.3	5189.6	5037.7	4498.7	4402.3	3358.1
32.5°	6778.8	6774.0	6596.8	6364.0	6085.5	5827.5	5535.7	5324.7	4846.0	4738.7	3604.0
35°	7257.5	7245.5	7044.1	6821.0	6523.2	6331.5	6005.9	5633.3	5222.2	5114.9	3857.2
37.5°	7619.2	7606.0	7421.5	7185.2	6909.0	6784.9	6512.3	6003.5	5618.9	5521.2	4138.2
40°	7815.8	7789.3	7661.4	7485.4	7253.9	7145.4	7032.0	6462.9	6085.5	5963.7	4469.8
42.5°	7873.7	7842.3	7757.9	7675.9	7536.0	7450.4	7572.2	6981.4	6598.0	6493.1	4848.4
45°	7702.4	7684.4	7677.1	7736.2	7761.5	7785.6	8085.9	7555.3	7163.5	7083.9	5324.7
47.5°	7290.1	7285.2	7349.2	7595.1	7862.8	8117.2	8644.1	8263.1	7896.6	7811.0	5990.3
50°	6528.0	6577.5	6755.9	7187.6	7722.9	8305.3	9166.2	9244.6	9083.0	8957.6	6858.4
52.5°	5336.7	5432.0	5832.3	6488.2	7257.5	8252.3	9407.4	10030.8	10196.0	10065.7	7480.6
55°	4187.6	4276.9	4633.8	5465.7	6491.9	7848.3	9418.2	10302.1	10662.6	10542.0	7901.4
57.5°	3119.3	3201.3	3525.7	4321.5	5450.1	7053.7	9160.2	10452.8	11216.0	11138.9	8565.8
60°	2039.0	2119.7	2412.7	3108.5	4227.4	5896.2	8524.8	10421.4	11969.7	11962.4	9382.1
62.5°	1131.0	1194.9	1407.1	1949.7	2950.5	4566.2	7526.4	10106.7	12699.1	12745.0	10054.9
65°	578.8	619.8	748.8	1071.9	1785.7	3237.5	6213.3	9385.7	13036.8	13152.5	10232.1
67.5°	378.6	391.9	423.2	557.1	956.2	2036.5	4676.0	8229.4	12561.7	12696.7	9637.7
70°	307.5	318.3	336.4	371.4	493.2	1081.6	3071.1	6572.6	10496.2	10587.8	7674.7
72.5°	225.5	239.9	274.9	297.8	355.7	593.2	1597.6	4314.2	7208.1	7369.6	4823.1
75°	166.4	174.8	203.8	235.1	290.6	375.0	611.3	2268.0	3722.2	3628.2	2025.7
77.5°	100.1	106.1	130.2	150.7	207.4	233.9	213.4	838.0	1132.2	1064.7	489.5
80°	49.4	55.5	85.6	113.3	132.6	94.0	89.2	233.9	252.0	252.0	123.0
82.5°	16.9	21.7	45.8	74.8	65.1	36.2	42.2	60.3	67.5	71.1	36.2
85°	0.0	0.0	10.9	21.7	9.6	4.8	10.9	13.3	16.9	18.1	12.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	4.8	4.8
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°	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9
2.5°	1232.3	1175.6	1090.0	1012.8	953.8	898.3	856.1	822.3	816.3	797.0	799.4
5°	1287.8	1185.3	1027.3	905.5	819.9	762.0	713.8	677.6	662.0	646.3	634.2
7.5°	1373.4	1225.1	1003.2	854.9	754.8	665.6	590.8	530.5	501.6	483.5	471.5
10°	1478.3	1280.5	1004.4	824.7	676.4	540.2	437.7	371.4	340.0	330.4	329.2
12.5°	1603.7	1350.5	1014.1	775.3	563.1	401.5	324.4	294.2	284.6	276.1	276.1
15°	1736.3	1428.8	1014.1	684.9	429.3	313.5	280.9	261.7	249.6	244.8	242.4
17.5°	1876.2	1502.4	989.9	560.7	329.2	276.1	249.6	231.5	221.9	214.6	212.2
20°	2025.7	1572.3	929.6	429.3	282.1	247.2	221.9	203.8	194.1	186.9	186.9
22.5°	2177.6	1637.4	832.0	330.4	249.6	219.4	195.3	178.5	168.8	161.6	161.6
25°	2318.7	1680.8	706.6	272.5	225.5	195.3	173.6	156.7	145.9	141.1	138.7
27.5°	2450.1	1708.6	567.9	239.9	202.6	174.8	151.9	136.3	127.8	124.2	121.8
30°	2586.4	1715.8	434.1	218.2	183.3	154.3	132.6	120.6	113.3	108.5	108.5
32.5°	2719.0	1707.4	331.6	200.2	166.4	136.3	118.2	107.3	101.3	97.7	96.5
35°	2854.1	1668.8	268.9	184.5	149.5	119.4	104.9	96.5	92.8	88.0	88.0
37.5°	3001.2	1616.9	233.9	168.8	132.6	107.3	94.0	88.0	83.2	79.6	78.4
40°	3184.4	1556.6	214.6	155.5	117.0	96.5	84.4	78.4	74.8	71.1	69.9
42.5°	3401.5	1497.6	205.0	141.1	104.9	85.6	76.0	68.7	65.1	60.3	59.1
45°	3708.9	1484.3	194.1	125.4	94.0	77.2	66.3	59.1	54.3	50.6	49.4
47.5°	4203.3	1521.7	176.0	108.5	83.2	67.5	56.7	50.6	44.6	41.0	38.6
50°	4694.1	1512.0	158.0	94.0	73.6	57.9	48.2	42.2	36.2	32.6	31.3
52.5°	4961.7	1466.2	141.1	83.2	63.9	49.4	41.0	33.8	30.1	26.5	25.3
55°	5204.1	1448.1	124.2	72.3	54.3	43.4	33.8	27.7	25.3	21.7	20.5
57.5°	5679.2	1490.3	109.7	62.7	47.0	37.4	28.9	22.9	20.5	16.9	15.7
60°	6175.9	1495.2	94.0	54.3	41.0	31.3	22.9	18.1	15.7	12.1	10.9
62.5°	6435.2	1373.4	77.2	45.8	33.8	26.5	19.3	14.5	12.1	7.2	7.2
65°	6218.1	1110.5	65.1	37.4	26.5	20.5	14.5	10.9	7.2	3.6	1.2
67.5°	5503.1	789.8	54.3	30.1	19.3	14.5	10.9	7.2	1.2	0.0	0.0
70°	4029.7	451.0	42.2	21.7	14.5	9.6	7.2	3.6	0.0	0.0	0.0
72.5°	2476.6	241.2	31.3	14.5	10.9	7.2	6.0	2.4	0.0	0.0	0.0
75°	939.3	115.8	19.3	9.6	8.4	6.0	3.6	1.2	0.0	0.0	0.0
77.5°	254.4	56.7	10.9	7.2	6.0	3.6	2.4	0.0	0.0	0.0	0.0
80°	66.3	26.5	7.2	4.8	3.6	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	12.1	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	9.6	4.8	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	1.2	1.2	1.2	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)