

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: P636015

Luminaire Tested: GWS-SA3E-830-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636015  
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-SA3E-830-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

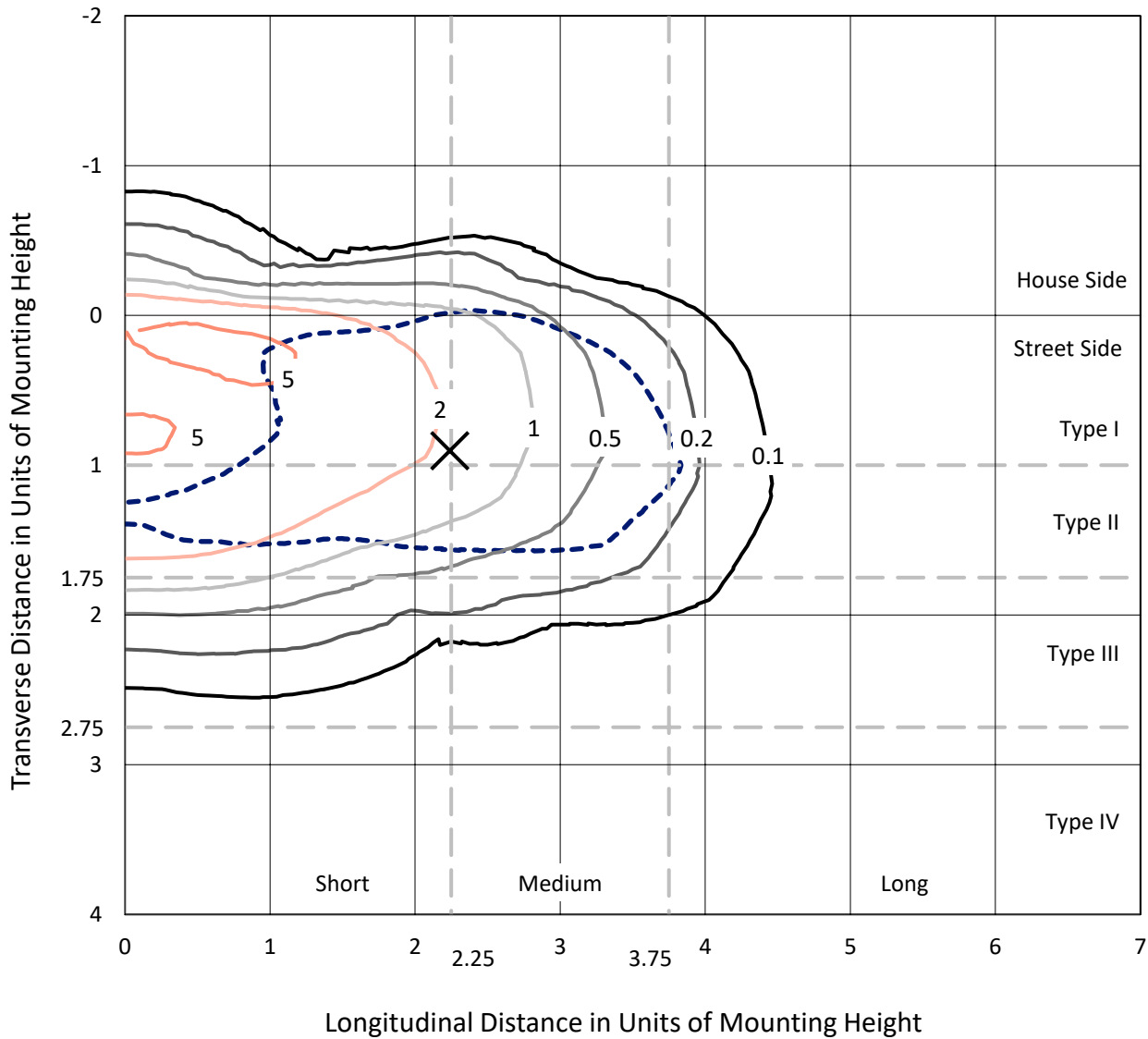
Lumens per Lamp: N/A  
Luminaire Lumens: 13085.9 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

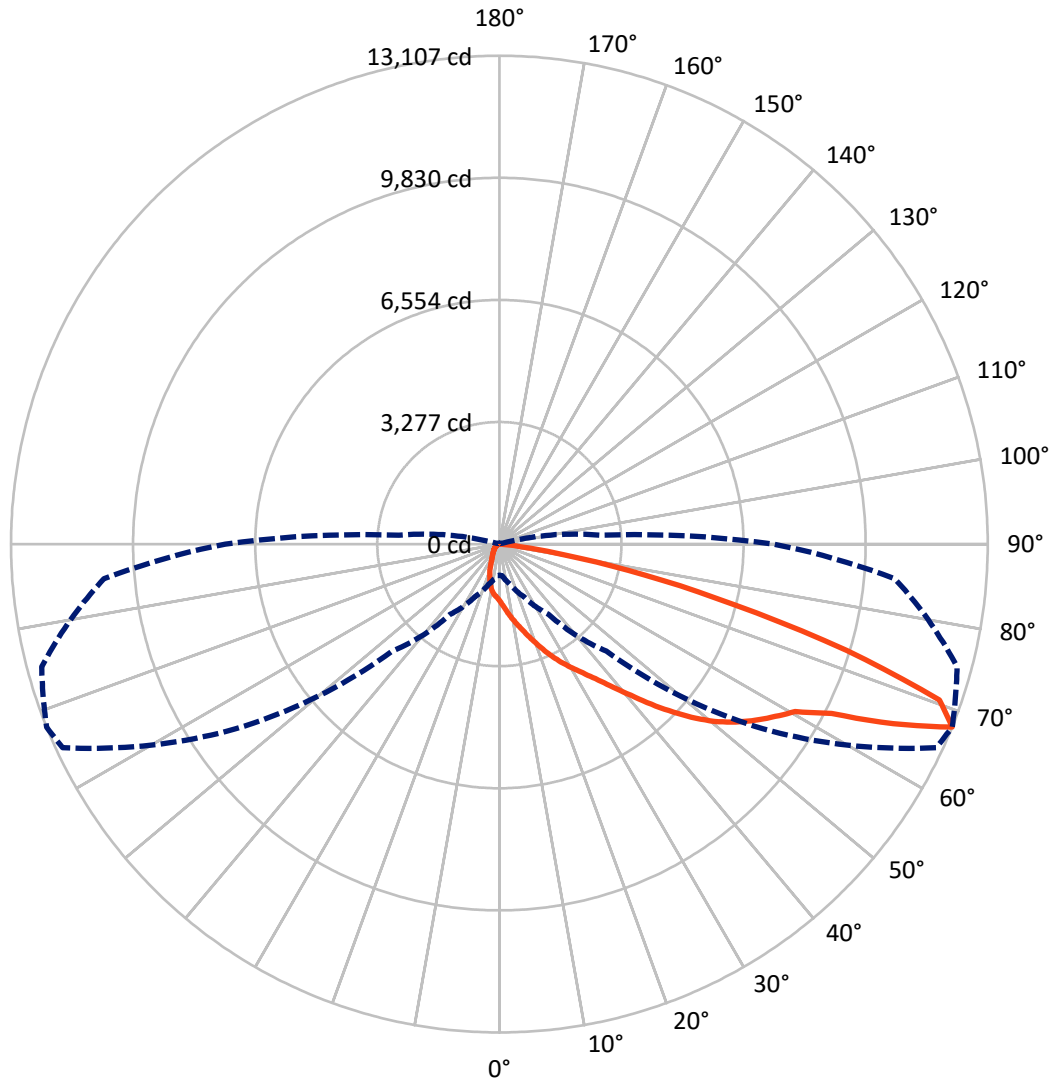
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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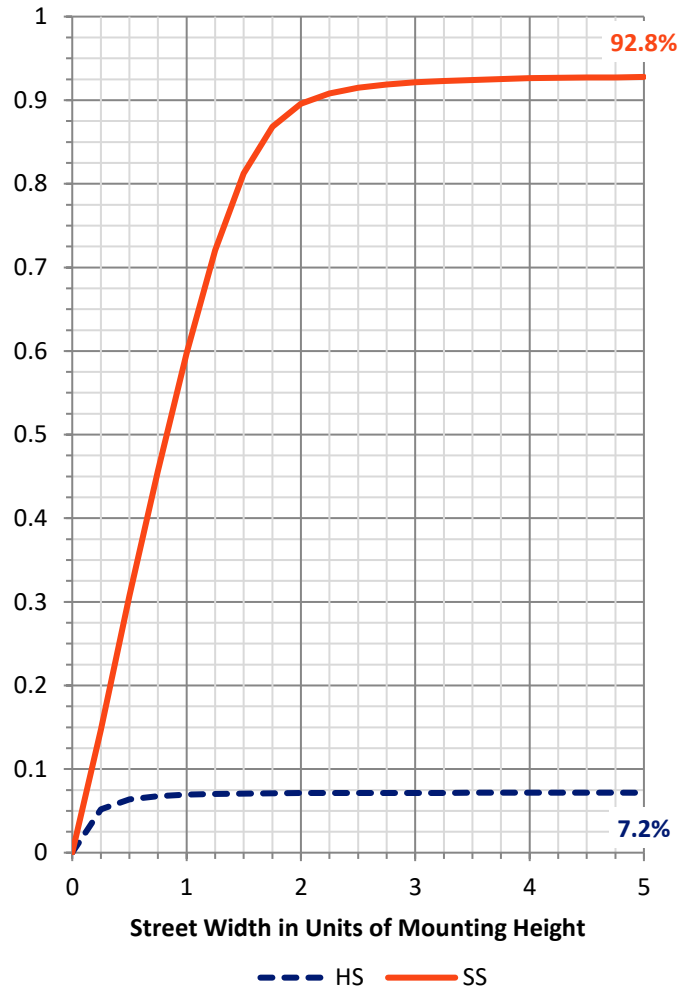
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	945.0	0.0	945.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	12140.9	0.0	12140.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	13085.9	0.0	13085.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	1.1
10°-20°	426.5	3.3
20°-30°	733.0	5.6
30°-40°	1274.4	9.7
40°-50°	2223.6	17.0
50°-60°	3353.8	25.6
60°-70°	3363.0	25.7
70°-80°	1483.8	11.3
80°-90°	79.3	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°	13085.9	100.0
0°-180°	13085.9	100.0

**Coefficient of Utilization**



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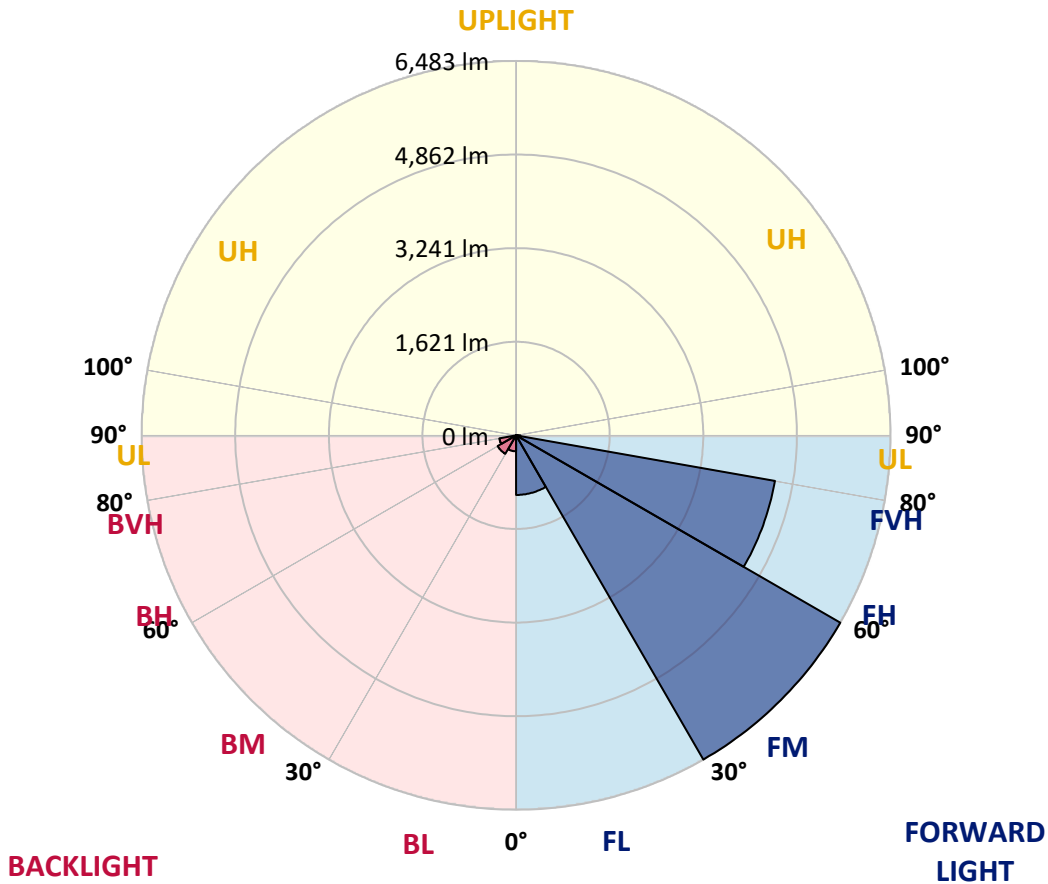
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.6	7.9			
FM (30°-60°)	6482.7	49.5			
FH (60°-80°)	4551.9	34.8			G2/5000
FVH (80°-90°)	74.8	0.6			G1/100
BL (0°-30°)	276.5	2.1	B1/500		
BM (30°-60°)	369.1	2.8	B1/1000		
BH (60°-80°)	294.9	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	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°	68°	75°	85°
0°	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9
2.5°	1773.3	1784.6	1773.3	1775.8	1743.3	1728.3	1695.7	1650.6	1639.3	1610.5	1566.7
5°	1990.0	2000.0	1988.7	1986.2	1948.7	1921.1	1867.3	1789.6	1767.1	1710.7	1624.3
7.5°	2107.7	2114.0	2117.7	2124.0	2110.2	2087.7	2038.8	1942.4	1918.6	1827.2	1705.7
10°	2120.2	2125.2	2144.0	2181.6	2209.2	2222.9	2195.4	2106.5	2068.9	1980.0	1805.9
12.5°	2085.2	2092.7	2122.7	2185.4	2261.8	2331.9	2349.4	2271.8	2238.0	2124.0	1923.6
15°	2038.8	2045.1	2086.4	2171.6	2286.8	2415.8	2488.4	2454.6	2417.0	2298.1	2053.9
17.5°	1967.5	1976.2	2033.8	2149.0	2298.1	2482.2	2638.7	2650.0	2623.7	2494.7	2197.9
20°	1927.4	1933.6	1985.0	2104.0	2290.6	2531.0	2779.0	2885.4	2856.6	2721.4	2363.2
22.5°	1961.2	1966.2	2000.0	2092.7	2265.5	2558.6	2909.2	3120.9	3104.6	2964.3	2537.3
25°	2139.0	2155.3	2135.3	2151.5	2276.8	2573.6	3014.4	3356.3	3360.1	3218.6	2717.6
27.5°	2499.7	2478.4	2430.8	2349.4	2364.4	2613.7	3104.6	3578.0	3610.5	3466.5	2877.9
30°	2866.6	2854.1	2825.3	2698.8	2593.6	2702.6	3181.0	3804.7	3856.0	3710.7	3020.7
32.5°	3278.7	3291.2	3239.8	3088.3	2909.2	2882.9	3259.9	4020.1	4116.5	3987.5	3188.5
35°	3770.8	3774.6	3673.2	3505.3	3302.5	3181.0	3401.4	4258.0	4435.8	4340.7	3412.7
37.5°	4250.5	4273.0	4217.9	3953.7	3773.4	3551.7	3635.6	4563.6	4814.1	4776.5	3694.5
40°	4675.0	4710.1	4692.6	4437.1	4200.4	4013.8	3998.8	4921.8	5271.2	5313.8	4066.4
42.5°	5013.2	5035.7	5049.5	4867.9	4658.8	4553.6	4447.1	5337.5	5810.9	5985.0	4522.3
45°	5370.1	5377.6	5406.4	5283.7	5100.8	5109.6	4976.9	5842.2	6379.5	6728.9	5045.7
47.5°	5824.7	5849.8	5836.0	5707.0	5541.7	5640.6	5524.1	6362.0	6940.6	7522.9	5581.8
50°	6378.3	6404.6	6392.0	6241.7	6057.7	6099.0	6026.3	6866.7	7481.6	8271.8	6027.6
52.5°	6663.8	6685.1	6840.4	6908.0	6811.6	6548.6	6454.6	7421.5	7938.7	8888.0	6437.1
55°	6526.0	6541.1	6879.2	7164.7	7517.9	7254.9	6885.5	7849.8	8341.9	9368.9	6741.4
57.5°	5955.0	6036.4	6496.0	6979.4	7722.0	7952.5	7584.3	8315.6	8730.2	9703.3	7040.8
60°	4784.0	4780.2	5439.0	6306.9	7323.8	8144.1	8571.1	8945.6	9119.7	9960.0	7441.5
62.5°	2643.7	2667.5	3544.2	4687.6	6216.7	7648.1	9311.3	10033.9	10007.6	10408.3	8068.9
65°	1316.2	1363.8	1839.7	2685.1	4136.5	6320.6	9439.0	11694.5	11619.4	11464.1	9365.1
67.5°	835.3	854.1	1117.1	1560.4	2299.3	4062.6	8643.8	12933.1	13107.2	12716.4	10651.3
70°	541.0	572.3	776.5	1067.0	1387.6	2093.9	6331.9	12130.3	12529.8	12578.7	9849.8
72.5°	294.3	316.8	495.9	761.4	1001.9	1047.0	3556.7	9103.4	9745.8	10670.1	7705.8
75°	167.8	184.1	271.8	517.2	735.1	637.4	1576.7	6094.0	6503.5	7625.6	5521.6
77.5°	101.4	115.2	152.8	251.7	460.9	425.8	596.1	3709.5	3970.0	4549.8	2898.0
80°	46.3	55.1	96.4	139.0	251.7	201.6	227.9	1729.5	1785.9	1867.3	959.3
82.5°	21.3	25.0	43.8	82.7	142.8	116.5	87.7	399.5	562.3	532.3	244.2
85°	2.5	2.5	16.3	33.8	40.1	30.1	36.3	90.2	114.0	160.3	70.1
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	7.5	11.3	16.3	26.3	17.5
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9
2.5°	1546.7	1511.6	1480.3	1433.9	1402.6	1367.6	1343.8	1315.0	1303.7	1294.9	1282.4
5°	1581.7	1525.4	1449.0	1363.8	1293.7	1227.3	1165.9	1125.9	1090.8	1085.8	1068.3
7.5°	1639.3	1555.4	1426.4	1287.4	1168.4	1058.2	971.8	901.7	866.6	855.4	835.3
10°	1715.7	1600.5	1392.6	1179.7	1008.1	876.6	779.0	700.1	645.0	624.9	609.9
12.5°	1800.9	1641.8	1338.8	1047.0	851.6	701.3	577.3	493.4	458.4	445.8	434.6
15°	1898.6	1680.7	1253.6	914.2	698.8	516.0	428.3	392.0	377.0	373.2	369.4
17.5°	1992.5	1705.7	1152.2	776.5	537.3	400.8	359.4	345.7	341.9	338.1	335.6
20°	2099.0	1723.2	1033.2	646.2	417.0	339.4	319.4	309.3	301.8	294.3	293.1
22.5°	2207.9	1723.2	904.2	518.5	349.4	304.3	281.8	263.0	249.2	241.7	239.2
25°	2311.9	1699.4	776.5	414.5	308.1	270.5	241.7	220.4	201.6	192.9	190.4
27.5°	2385.7	1638.1	665.0	350.7	279.3	240.5	205.4	181.6	166.6	157.8	156.5
30°	2432.1	1546.7	562.3	313.1	254.2	209.1	174.1	154.0	142.8	136.5	134.0
32.5°	2467.1	1433.9	470.9	286.8	230.4	181.6	151.5	135.3	125.2	120.2	119.0
35°	2537.3	1327.5	403.3	263.0	205.4	159.0	132.7	120.2	112.7	106.5	105.2
37.5°	2635.0	1238.6	349.4	241.7	181.6	141.5	120.2	109.0	102.7	96.4	95.2
40°	2779.0	1182.2	309.3	220.4	160.3	127.7	110.2	100.2	91.4	85.2	83.9
42.5°	3000.6	1155.9	283.0	199.1	141.5	115.2	101.4	88.9	80.2	73.9	72.6
45°	3264.9	1169.7	260.5	177.8	129.0	106.5	90.2	77.6	68.9	62.6	61.4
47.5°	3547.9	1218.5	241.7	157.8	116.5	97.7	80.2	66.4	58.9	52.6	51.3
50°	3843.5	1298.7	225.4	139.0	106.5	87.7	68.9	57.6	50.1	45.1	43.8
52.5°	4100.2	1407.6	209.1	125.2	97.7	77.6	60.1	50.1	42.6	37.6	36.3
55°	4345.7	1510.3	196.6	112.7	87.7	67.6	52.6	42.6	36.3	31.3	30.1
57.5°	4612.4	1619.3	181.6	101.4	78.9	60.1	46.3	36.3	31.3	26.3	25.0
60°	5000.7	1780.9	159.0	92.7	68.9	52.6	40.1	32.6	27.6	21.3	20.0
62.5°	5560.5	2075.2	134.0	80.2	58.9	45.1	33.8	27.6	22.5	17.5	15.0
65°	6607.4	2576.1	110.2	66.4	47.6	37.6	28.8	22.5	17.5	12.5	11.3
67.5°	7361.4	2706.3	88.9	53.9	38.8	28.8	23.8	17.5	12.5	8.8	7.5
70°	6435.9	1943.7	68.9	43.8	32.6	22.5	18.8	13.8	8.8	6.3	5.0
72.5°	4849.1	1269.9	51.3	33.8	25.0	18.8	13.8	11.3	7.5	5.0	3.8
75°	3417.7	733.9	37.6	25.0	17.5	13.8	11.3	8.8	6.3	3.8	3.8
77.5°	1752.0	303.1	26.3	17.5	12.5	8.8	7.5	5.0	5.0	3.8	2.5
80°	532.3	100.2	15.0	11.3	8.8	6.3	3.8	3.8	3.8	2.5	1.3
82.5°	121.5	32.6	8.8	8.8	6.3	5.0	3.8	1.3	1.3	0.0	0.0
85°	31.3	10.0	7.5	6.3	6.3	5.0	2.5	1.3	0.0	0.0	0.0
87.5°	11.3	6.3	6.3	6.3	5.0	3.8	2.5	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)