

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: P631073

Luminaire Tested: GWS-SA1E-830-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

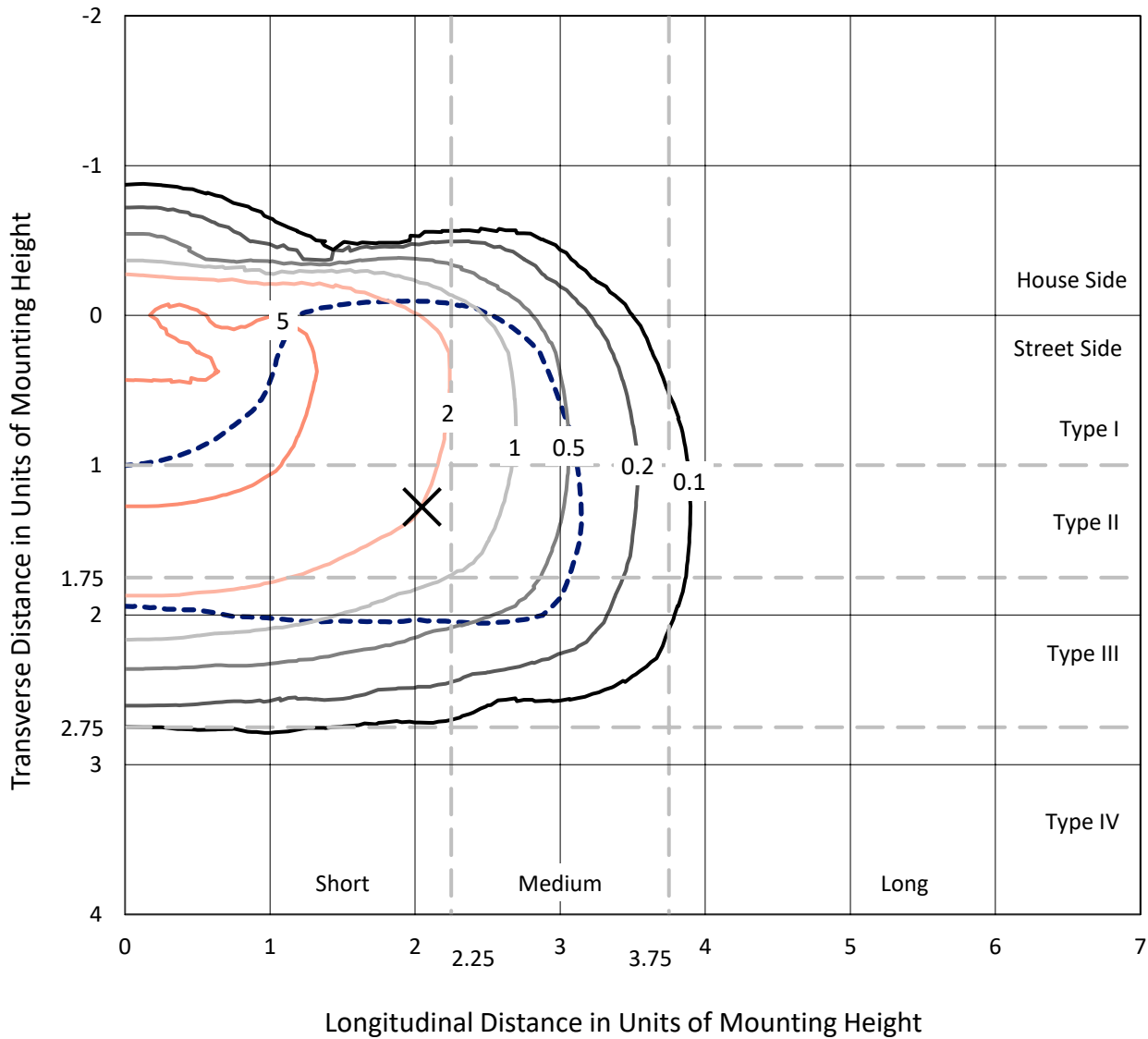
Lumens per Lamp: N/A  
Luminaire Lumens: 4419.2 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

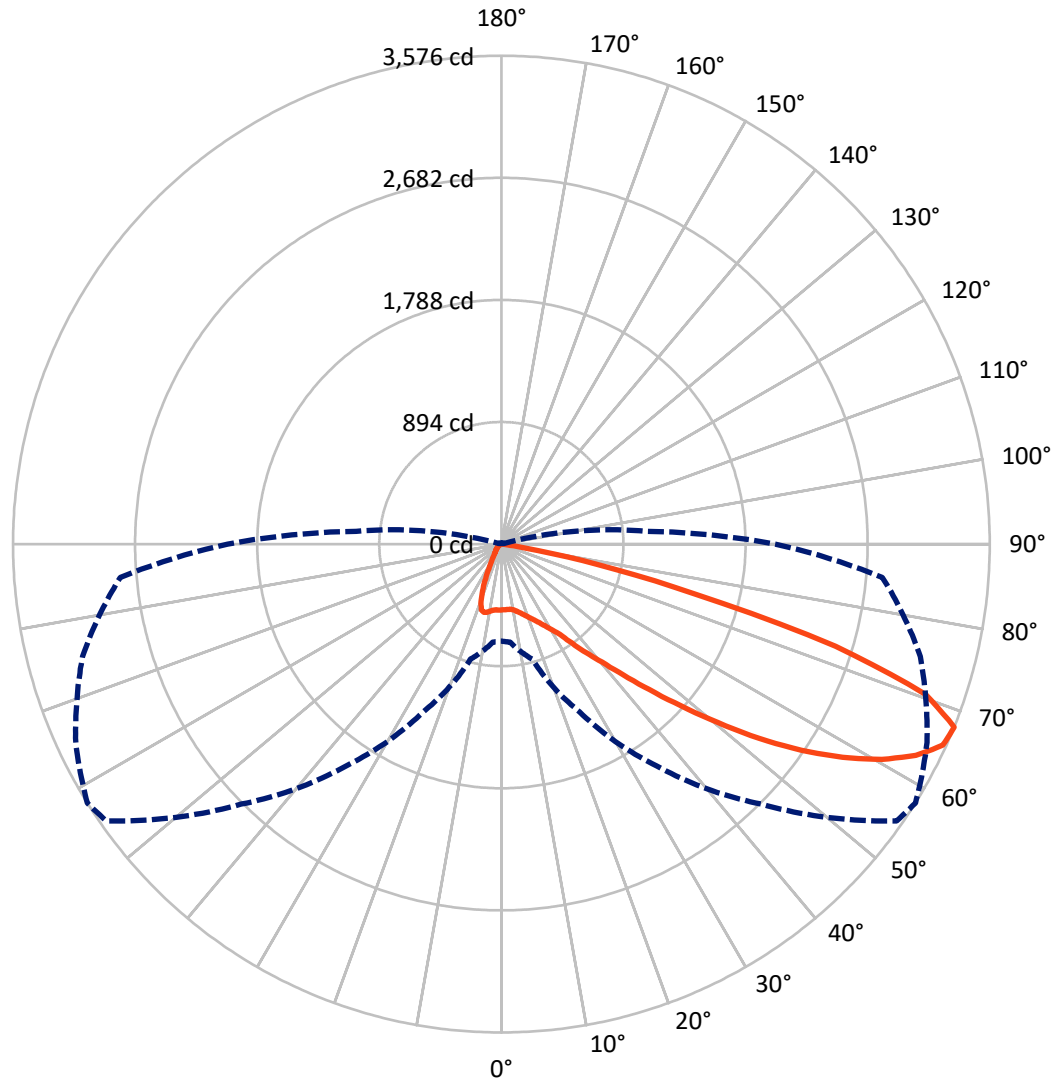
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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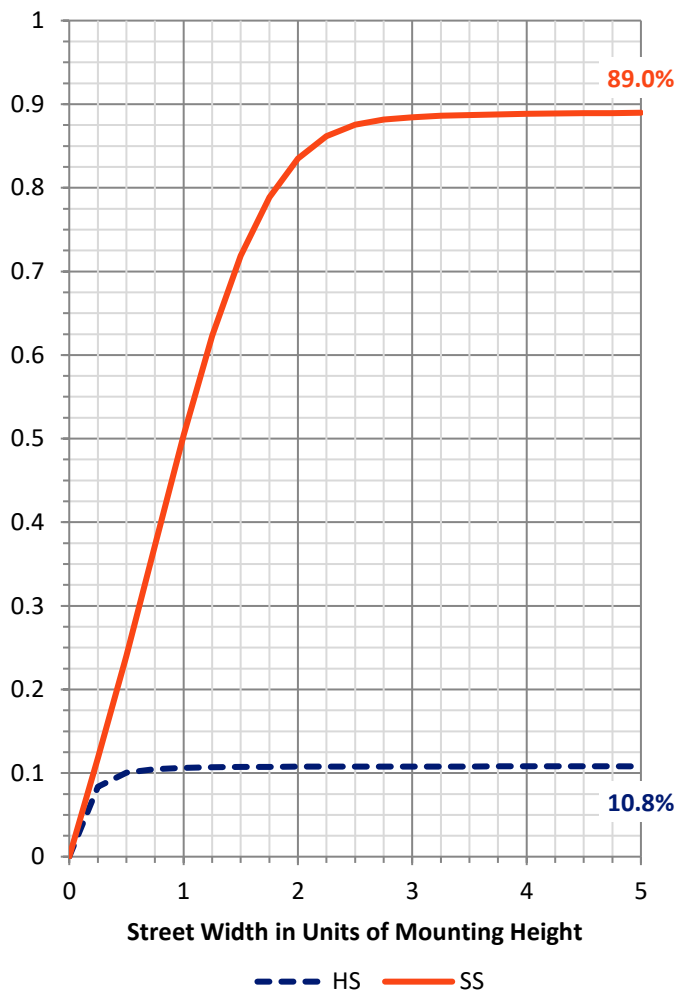
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	482.1	0.0	482.1
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	3937.1	0.0	3937.1
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	4419.2	0.0	4419.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	1.0
10°-20°	127.0	2.9
20°-30°	221.7	5.0
30°-40°	395.9	9.0
40°-50°	723.7	16.4
50°-60°	1203.6	27.2
60°-70°	1307.3	29.6
70°-80°	383.8	8.7
80°-90°	10.9	0.2
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°	4419.2	100.0
0°-180°	4419.2	100.0

**Coefficient of Utilization**



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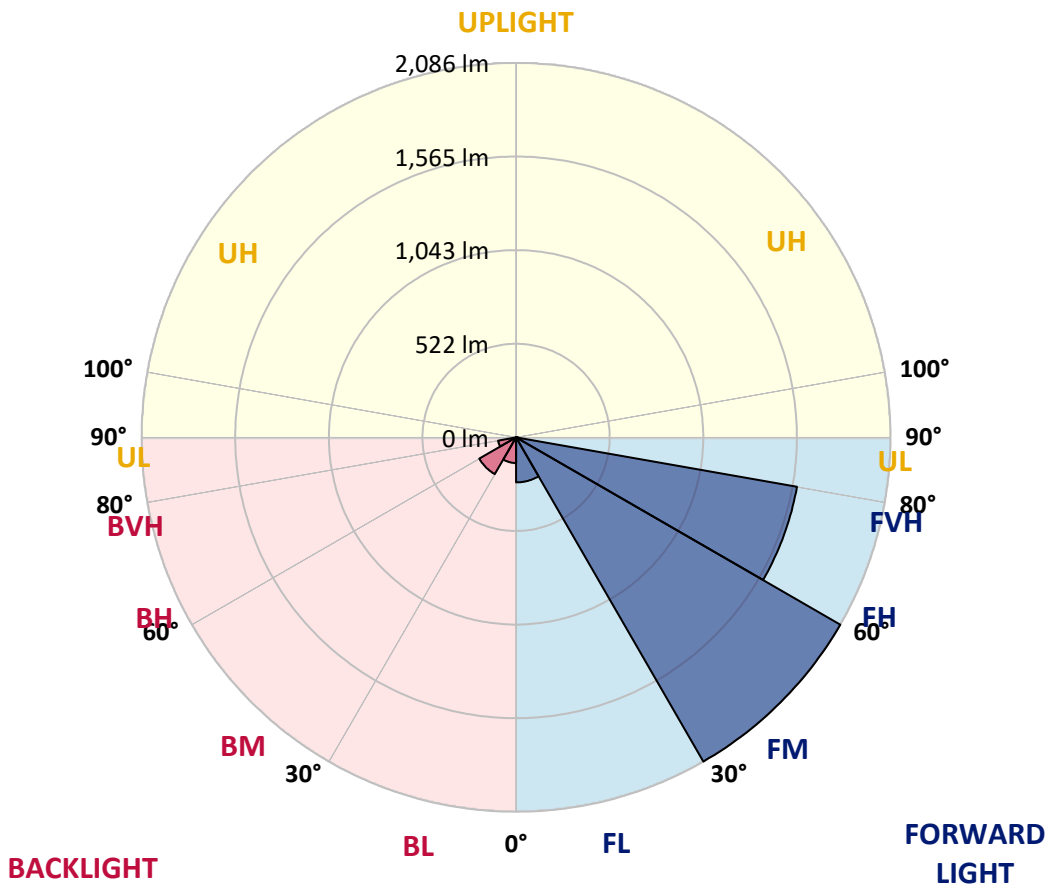
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.9	5.7			
FM (30°-60°)	2086.4	47.2			
FH (60°-80°)	1589.3	36.0			G1/1800
FVH (80°-90°)	10.4	0.2			G1/100
BL (0°-30°)	143.0	3.2	B1/500		
BM (30°-60°)	236.8	5.4	B1/1000		
BH (60°-80°)	101.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6
2.5°	472.5	471.6	471.6	475.1	475.5	477.2	481.1	481.6	483.7	482.9	479.8
5°	447.9	448.3	450.9	457.0	462.1	468.6	478.1	480.3	485.0	487.6	485.9
7.5°	425.0	425.5	429.3	438.8	448.8	461.7	477.2	481.6	491.1	498.0	498.4
10°	416.4	416.0	419.9	430.6	443.6	461.7	484.1	489.8	504.0	516.1	518.2
12.5°	419.0	418.6	422.4	432.4	446.6	469.5	496.2	504.0	522.1	540.7	544.6
15°	429.3	428.9	431.5	439.7	455.2	479.0	511.8	523.4	546.3	568.7	574.8
17.5°	460.4	458.3	455.7	456.5	465.6	490.2	531.6	545.9	574.3	601.1	606.3
20°	515.6	510.0	503.1	494.1	489.8	506.6	554.5	570.9	605.4	636.0	636.9
22.5°	598.9	596.8	580.8	554.5	535.9	536.4	581.2	600.2	642.5	676.2	671.4
25°	715.0	713.7	689.1	646.0	597.6	581.2	615.3	634.7	686.5	722.3	707.2
27.5°	859.1	850.1	821.2	762.9	690.8	639.5	658.5	675.7	733.1	766.8	738.3
30°	984.7	985.1	957.9	897.1	816.0	727.1	711.1	726.2	775.8	811.2	776.7
32.5°	1105.5	1109.4	1079.6	1024.8	935.9	841.4	786.6	789.2	830.6	869.1	827.2
35°	1217.7	1220.7	1200.0	1153.4	1070.6	961.0	891.9	890.6	913.1	952.3	897.5
37.5°	1343.3	1346.3	1326.0	1284.2	1206.5	1097.8	1011.5	1009.7	1018.8	1050.7	988.1
40°	1477.0	1482.7	1460.2	1424.8	1350.6	1258.7	1150.4	1134.9	1125.8	1163.3	1105.5
42.5°	1612.5	1621.2	1613.4	1578.0	1514.6	1438.6	1330.8	1306.6	1287.2	1334.2	1272.9
45°	1780.8	1791.2	1787.7	1760.5	1711.4	1649.6	1547.8	1519.8	1510.7	1554.3	1481.4
47.5°	1942.6	1953.9	1966.4	1960.3	1925.4	1896.9	1783.8	1767.9	1765.3	1811.9	1698.8
50°	2063.0	2073.4	2121.3	2155.8	2179.5	2173.5	2075.5	2051.8	2047.9	2077.7	1928.4
52.5°	2149.3	2159.3	2225.3	2333.2	2420.3	2467.8	2369.0	2363.8	2342.6	2332.3	2143.3
55°	2216.2	2230.0	2299.5	2462.6	2638.2	2743.5	2681.8	2663.3	2608.9	2549.3	2342.6
57.5°	2229.6	2235.2	2333.2	2553.2	2807.4	2977.8	2977.8	2945.5	2840.6	2758.2	2573.1
60°	2109.6	2126.9	2259.4	2545.9	2879.9	3131.0	3223.4	3200.9	3059.4	2958.0	2794.9
62.5°	1843.4	1862.8	2024.2	2370.3	2807.4	3162.5	3409.3	3405.9	3246.2	3123.2	2978.7
65°	1413.6	1427.9	1568.5	1982.8	2501.0	3041.3	3542.2	3551.7	3393.8	3232.4	3042.1
67.5°	710.3	720.2	872.1	1354.5	1982.3	2692.2	3533.2	3575.5	3438.7	3174.6	2800.0
70°	248.1	258.0	329.7	581.2	1206.5	2055.7	3227.7	3296.7	3175.0	2709.9	2065.6
72.5°	85.0	89.8	136.8	215.8	469.5	1218.6	2454.4	2558.4	2340.5	1819.2	1187.1
75°	48.3	51.3	73.4	116.9	196.8	400.9	1392.5	1456.3	1364.4	991.6	488.5
77.5°	32.8	35.4	45.7	66.5	108.7	129.0	567.9	715.0	623.5	323.6	124.7
80°	19.4	21.1	28.0	39.3	55.7	50.1	121.7	161.8	208.4	96.7	37.5
82.5°	9.1	10.4	18.1	25.9	28.0	21.1	35.8	43.6	58.7	47.5	15.5
85°	0.0	0.0	6.0	10.8	10.4	6.0	9.9	10.8	16.0	23.7	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.3	2.6	4.7	2.6
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°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6
2.5°	483.3	480.3	483.7	482.0	483.7	483.3	479.8	477.7	477.7	473.8	472.5
5°	489.3	486.3	487.2	483.3	482.4	480.3	476.0	474.2	474.2	470.3	469.0
7.5°	502.7	498.0	497.1	489.3	485.9	479.8	472.1	469.0	468.6	464.7	463.4
10°	523.8	518.2	514.4	504.4	494.5	482.4	466.0	452.2	444.5	434.1	433.2
12.5°	549.7	542.8	536.8	521.7	505.3	478.1	429.8	379.3	348.2	323.6	325.4
15°	578.6	572.2	562.7	539.8	506.2	435.4	334.4	256.7	218.8	198.5	197.6
17.5°	610.1	600.7	585.1	554.1	479.0	332.7	217.5	153.6	133.8	126.9	125.1
20°	639.5	627.8	608.4	557.1	400.4	225.2	135.9	119.1	115.6	113.5	113.5
22.5°	670.6	655.9	627.0	533.8	297.7	144.1	115.6	111.8	109.2	106.2	105.7
25°	702.1	683.1	643.8	472.9	195.0	113.5	108.3	104.0	99.2	94.5	93.2
27.5°	728.8	704.2	656.8	382.3	125.1	102.3	98.8	91.5	85.0	79.8	79.0
30°	760.7	729.2	662.4	279.6	98.4	90.2	85.0	77.2	69.5	64.3	62.6
32.5°	803.5	768.9	653.7	182.1	87.2	79.4	71.2	62.1	54.4	48.8	47.9
35°	869.9	828.9	614.0	116.1	79.0	68.6	58.7	49.2	42.7	38.4	37.5
37.5°	951.0	913.1	548.9	87.2	70.8	59.5	47.9	38.8	34.1	31.1	30.2
40°	1071.4	1018.4	468.2	76.4	62.6	50.5	39.3	31.9	28.5	25.9	25.0
42.5°	1227.6	1142.6	375.4	69.5	54.8	42.3	31.9	26.3	23.3	21.6	21.1
45°	1410.2	1263.9	277.5	62.6	47.5	35.0	26.3	21.6	19.4	18.1	17.7
47.5°	1597.0	1370.0	191.6	55.2	40.6	28.9	22.0	18.6	16.8	15.1	14.7
50°	1796.4	1459.8	130.7	47.9	34.5	23.7	19.0	16.8	14.7	13.4	12.9
52.5°	1942.6	1493.0	91.0	41.4	29.3	20.3	16.8	15.1	13.4	11.7	11.2
55°	2077.7	1492.1	69.0	35.0	25.0	17.7	15.1	13.4	11.7	10.4	9.9
57.5°	2212.3	1480.5	54.4	29.8	21.6	16.0	13.4	11.7	10.8	9.1	8.6
60°	2299.5	1436.5	42.3	25.0	18.6	13.8	11.7	10.4	9.1	7.8	7.3
62.5°	2345.7	1375.2	32.4	19.8	15.1	12.1	10.4	9.1	7.8	6.5	6.0
65°	2283.1	1266.5	25.5	15.5	11.7	10.4	8.6	7.3	6.0	4.7	4.3
67.5°	2005.6	1068.0	19.8	12.5	9.1	7.8	7.3	6.0	4.3	3.5	3.0
70°	1417.5	731.4	15.5	9.5	6.9	6.0	5.6	4.7	3.5	2.6	2.2
72.5°	778.0	368.9	11.2	6.9	5.2	4.7	4.3	3.9	3.0	2.2	2.2
75°	299.5	101.4	8.2	4.7	3.5	3.5	3.0	3.0	2.6	1.7	1.7
77.5°	78.1	30.2	5.2	3.0	2.2	2.2	2.2	1.7	1.7	1.3	1.3
80°	25.0	9.9	3.0	2.2	1.7	1.3	1.3	0.9	1.3	0.9	0.9
82.5°	8.2	3.5	1.7	1.7	1.3	0.9	0.9	0.4	0.4	0.0	0.0
85°	3.0	1.7	1.3	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0
87.5°	1.7	0.9	0.9	0.9	0.9	0.4	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)