

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: P630049

Luminaire Tested: GWS-SA1C-830-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-830-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

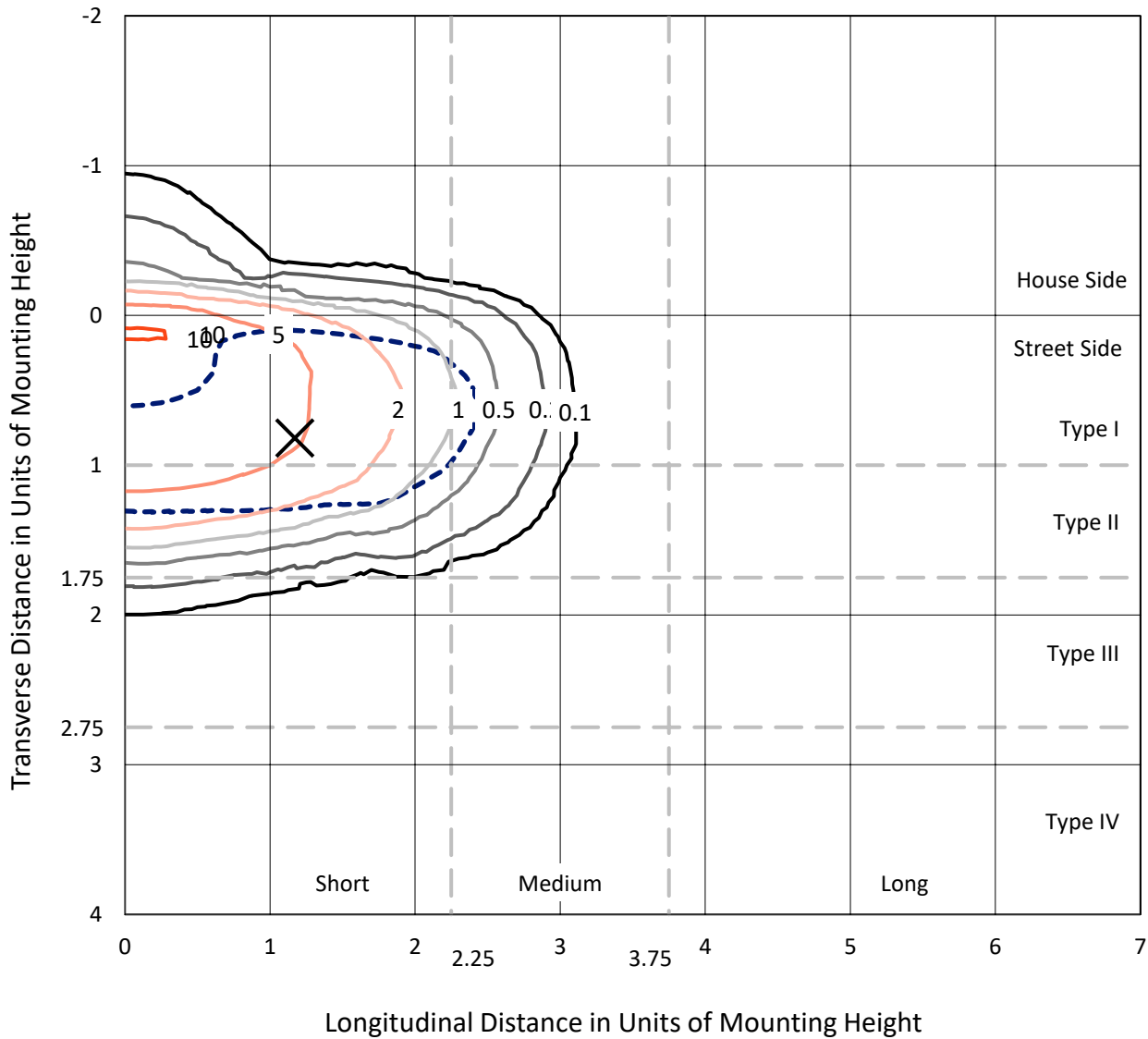
Lumens per Lamp: N/A  
Luminaire Lumens: 3202 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

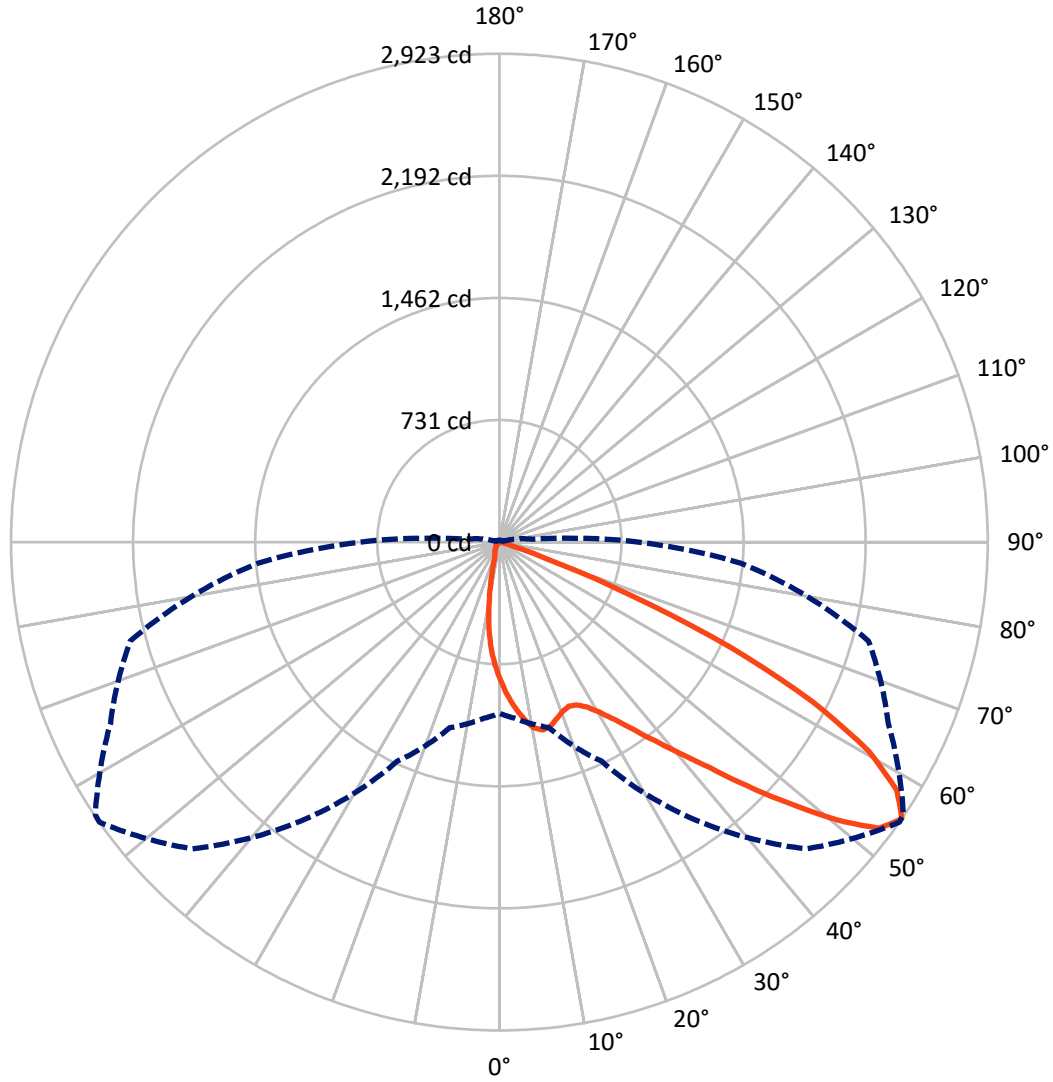
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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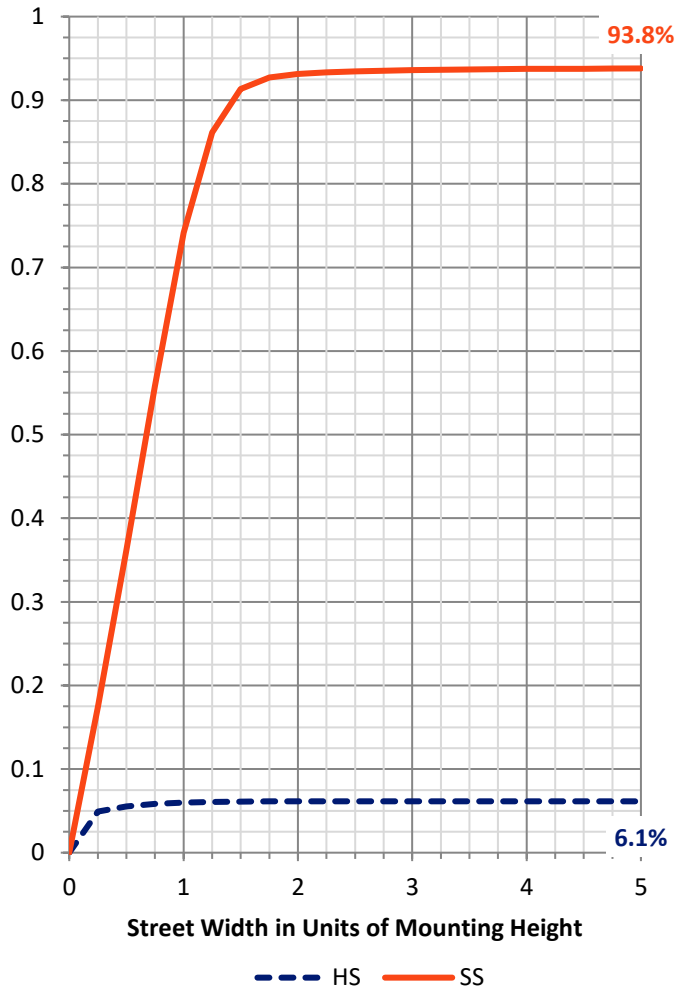
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	197.6	0.0	197.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3004.4	0.0	3004.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	3202.0	0.0	3202.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	2.3
10°-20°	176.3	5.5
20°-30°	293.5	9.2
30°-40°	500.2	15.6
40°-50°	816.5	25.5
50°-60°	854.8	26.7
60°-70°	431.1	13.5
70°-80°	54.5	1.7
80°-90°	2.1	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°	3202.0	100.0
0°-180°	3202.0	100.0

**Coefficient of Utilization**



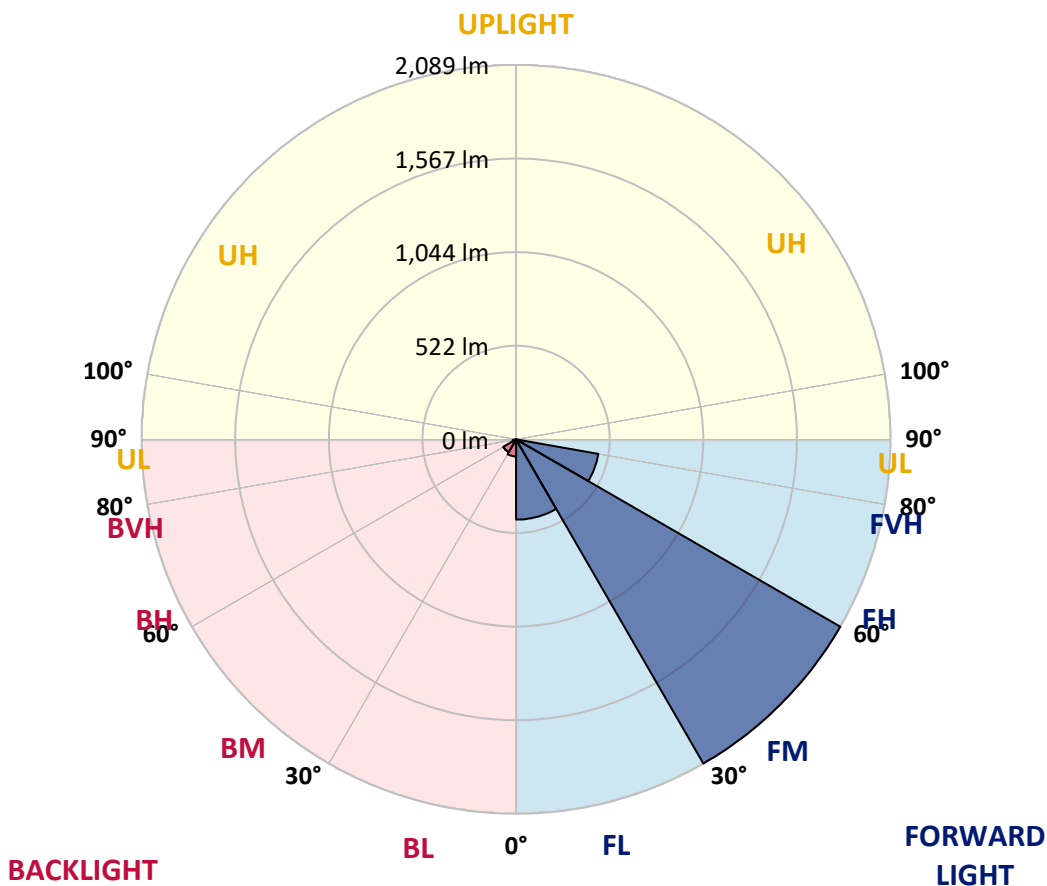
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.9	14.0			
FM (30°-60°)	2088.8	65.2			
FH (60°-80°)	465.8	14.5			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	95.0	3.0	B0/110		
BM (30°-60°)	82.6	2.6	B0/220		
BH (60°-80°)	19.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	964.3	959.7	966.8	958.6	944.6	932.9	917.5	912.1	887.4	864.2	841.7
5°	1081.5	1082.9	1080.7	1069.2	1049.5	1027.6	996.6	989.8	946.8	902.5	854.6
7.5°	1110.5	1109.7	1114.4	1118.7	1115.4	1104.5	1070.8	1064.0	1010.6	944.1	874.3
10°	1021.0	1021.6	1031.1	1060.7	1097.4	1135.4	1130.2	1126.4	1074.1	991.2	896.2
12.5°	894.5	899.5	909.6	951.8	1013.9	1100.4	1154.0	1157.9	1132.4	1042.9	921.9
15°	839.8	840.9	849.1	874.6	920.8	1027.6	1143.9	1154.6	1181.1	1094.9	949.8
17.5°	838.4	839.8	843.4	854.6	884.7	970.4	1111.3	1130.0	1217.8	1150.8	983.2
20°	889.9	889.1	886.6	880.6	893.7	951.5	1081.2	1101.8	1237.8	1205.2	1016.9
22.5°	983.2	982.1	971.2	946.3	935.6	968.7	1066.4	1085.1	1249.8	1253.7	1044.6
25°	1090.8	1098.5	1077.9	1040.2	1013.9	1012.8	1079.6	1092.7	1260.2	1296.7	1063.4
27.5°	1208.8	1211.3	1193.7	1151.3	1113.3	1083.4	1117.6	1127.5	1271.7	1335.0	1074.1
30°	1338.3	1337.4	1317.5	1268.2	1221.9	1179.0	1181.7	1185.5	1298.6	1378.8	1085.9
32.5°	1500.0	1503.6	1468.0	1400.9	1345.4	1286.0	1265.4	1266.0	1347.0	1435.2	1103.7
35°	1719.8	1711.1	1664.0	1568.5	1473.8	1409.7	1374.7	1371.7	1421.7	1511.0	1134.6
37.5°	1929.2	1930.1	1880.8	1775.7	1656.1	1555.1	1505.5	1497.3	1526.9	1616.1	1186.1
40°	2074.6	2077.3	2056.8	2001.8	1875.0	1732.2	1659.3	1650.9	1663.2	1749.1	1253.4
42.5°	2151.5	2159.2	2164.9	2177.8	2081.7	1953.3	1841.4	1840.6	1827.7	1900.8	1331.4
45°	2154.5	2166.0	2201.1	2288.9	2299.9	2205.7	2083.9	2065.6	2016.0	2063.1	1401.2
47.5°	2035.4	2062.0	2136.5	2310.5	2425.5	2456.7	2336.0	2324.8	2185.7	2191.5	1453.5
50°	1757.9	1785.5	1922.7	2199.7	2457.3	2656.0	2612.7	2589.5	2327.5	2276.3	1478.7
52.5°	1473.2	1498.4	1591.5	1935.8	2325.6	2718.7	2846.0	2818.3	2454.8	2305.9	1468.3
55°	1025.1	1058.8	1149.7	1446.9	2022.3	2596.6	2923.2	2917.4	2568.4	2287.3	1452.1
57.5°	502.6	536.0	626.6	892.1	1498.1	2267.0	2805.2	2835.6	2636.3	2267.3	1439.0
60°	210.0	223.6	254.8	391.4	838.2	1713.3	2538.8	2581.0	2594.7	2240.2	1437.6
62.5°	121.8	124.0	127.3	162.3	326.0	982.1	2106.1	2166.0	2376.0	2204.3	1416.0
65°	92.0	92.8	91.4	99.6	134.7	372.5	1521.7	1603.2	1983.2	2064.2	1330.6
67.5°	75.5	75.5	72.0	73.6	84.6	139.6	840.1	953.9	1467.5	1696.6	1098.7
70°	60.2	61.6	59.9	57.8	60.5	77.2	298.9	370.6	854.6	1001.8	640.8
72.5°	45.7	45.7	48.5	46.8	44.9	48.5	104.3	117.2	343.0	417.7	231.3
75°	35.3	36.4	38.3	36.7	33.9	28.7	50.1	53.1	103.5	97.2	51.7
77.5°	18.1	18.3	24.4	26.8	25.2	17.5	21.9	24.1	33.7	30.1	19.2
80°	10.9	11.5	13.7	21.1	16.7	9.3	9.0	9.6	15.9	13.7	7.9
82.5°	4.7	4.9	7.7	7.7	6.8	3.6	3.6	3.6	7.7	7.1	3.3
85°	0.0	0.0	1.4	1.1	1.1	1.4	1.4	1.4	1.9	2.7	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.8
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°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	827.2	809.7	786.1	764.8	736.1	719.9	697.5	679.1	663.5	658.6	656.4
5°	827.5	797.4	747.0	696.6	634.8	586.1	536.0	496.3	463.7	453.3	450.6
7.5°	833.0	788.6	707.0	615.6	512.1	426.7	350.4	281.9	250.2	239.5	237.3
10°	840.3	781.2	660.8	518.4	369.8	260.0	184.2	140.4	119.6	108.1	109.8
12.5°	849.9	775.2	609.6	413.3	244.7	142.9	101.3	84.9	80.5	78.3	77.2
15°	862.8	768.1	546.1	309.0	150.0	92.0	78.0	73.6	72.0	70.9	70.6
17.5°	875.9	759.9	481.5	217.3	99.6	76.4	70.1	67.9	66.8	66.0	65.7
20°	889.9	745.9	405.7	149.7	78.6	68.7	64.6	62.1	60.8	59.4	59.1
22.5°	895.9	723.5	333.1	104.8	69.8	63.2	58.0	55.0	53.4	52.3	52.3
25°	890.2	687.1	258.1	79.7	63.5	57.2	52.0	48.7	47.4	46.3	46.3
27.5°	874.8	640.3	188.3	66.0	56.7	50.9	46.0	43.0	41.9	41.3	41.3
30°	857.9	581.1	132.8	56.7	49.0	44.3	40.2	38.3	38.0	37.5	37.5
32.5°	843.4	525.8	91.4	49.8	43.2	38.6	35.9	35.0	35.3	34.8	35.0
35°	835.4	471.6	67.9	44.3	38.6	34.2	32.8	32.8	32.8	32.6	32.6
37.5°	838.7	418.3	55.3	40.5	34.5	31.2	29.8	30.4	30.9	30.9	30.9
40°	855.1	370.9	49.0	37.0	30.9	28.5	27.4	28.2	29.0	29.6	29.6
42.5°	875.9	332.6	44.3	33.9	28.5	25.7	25.2	26.0	26.8	27.4	27.4
45°	889.1	294.0	39.7	30.1	26.0	22.7	22.7	23.8	23.5	23.8	23.8
47.5°	895.1	263.3	35.0	26.0	22.2	19.7	20.0	20.5	20.0	20.5	20.5
50°	880.3	232.4	30.9	21.6	18.3	17.2	17.8	17.5	17.5	18.6	18.6
52.5°	853.2	209.4	27.4	18.3	15.6	15.3	15.9	14.8	15.1	15.1	14.8
55°	833.2	196.3	24.4	15.9	13.4	13.7	13.4	11.5	10.4	9.3	9.0
57.5°	823.4	191.1	22.2	14.2	12.0	12.0	10.9	7.9	6.0	4.7	4.1
60°	821.2	184.8	20.0	12.3	10.7	10.1	7.9	4.7	3.0	2.2	1.9
62.5°	800.4	169.4	18.1	9.9	9.3	8.2	4.9	2.7	1.6	1.1	0.8
65°	732.2	139.3	16.2	7.7	7.1	6.0	3.0	1.6	0.8	0.3	0.0
67.5°	582.5	98.8	14.2	5.7	4.9	3.8	1.9	1.1	0.3	0.0	0.0
70°	335.9	53.4	11.8	4.1	3.3	2.5	1.4	0.5	0.0	0.0	0.0
72.5°	112.2	24.9	9.0	2.7	2.5	1.9	0.8	0.3	0.0	0.0	0.0
75°	24.6	14.8	6.0	1.9	1.6	1.4	0.5	0.0	0.0	0.0	0.0
77.5°	9.3	10.4	3.0	1.4	1.1	0.8	0.3	0.0	0.0	0.0	0.0
80°	3.6	6.8	1.4	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	2.7	0.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	1.4	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.3	0.3	0.3	0.0	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)