

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: P631572

Luminaire Tested: GWS-SA1F-830-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-830-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

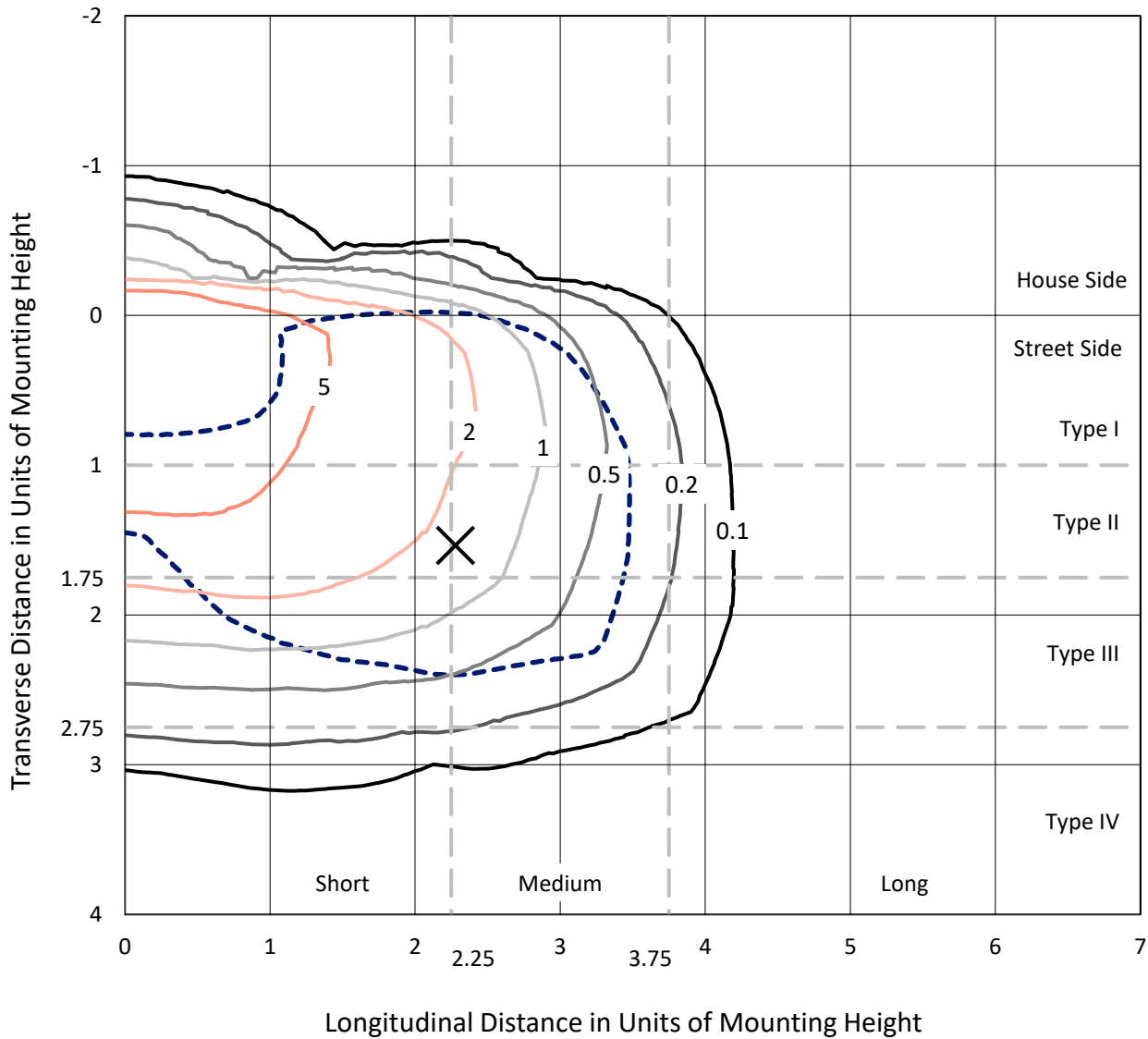
Lumens per Lamp: N/A  
Luminaire Lumens: 5239.2 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P631572  
 CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

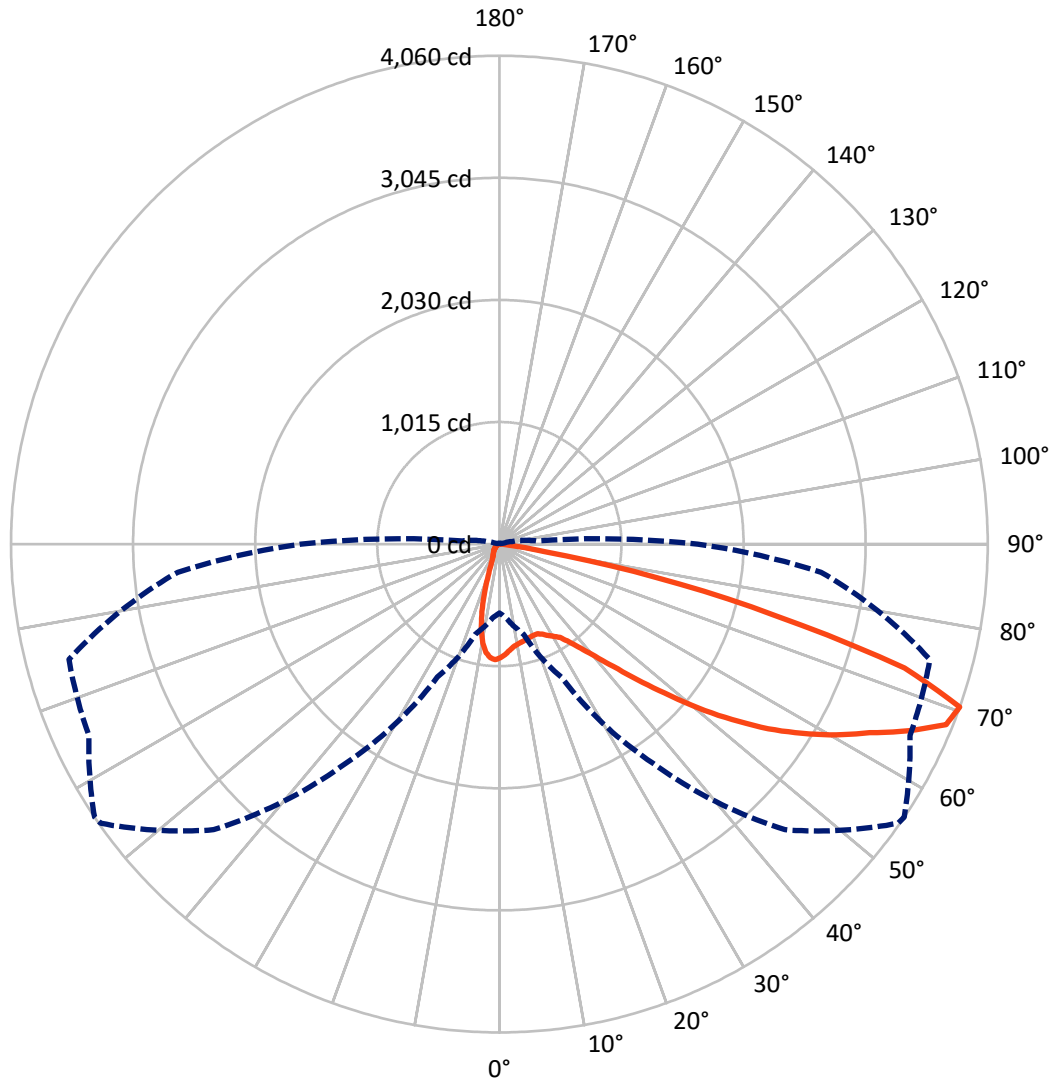
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P631572  
CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P631572  
 CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-HSS

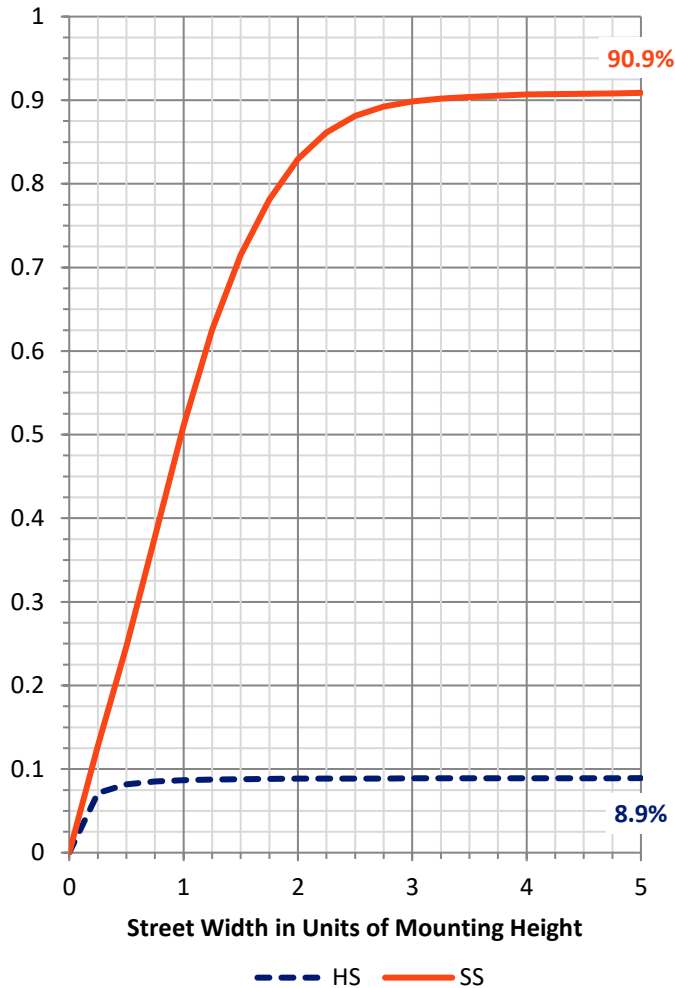
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	470.6	0.0	470.6
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	4768.6	0.0	4768.6
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	5239.2	0.0	5239.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	1.5
10°-20°	182.4	3.5
20°-30°	289.0	5.5
30°-40°	498.3	9.5
40°-50°	841.5	16.1
50°-60°	1236.4	23.6
60°-70°	1465.8	28.0
70°-80°	625.1	11.9
80°-90°	19.6	0.4
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°	5239.2	100.0
0°-180°	5239.2	100.0

**Coefficient of Utilization**



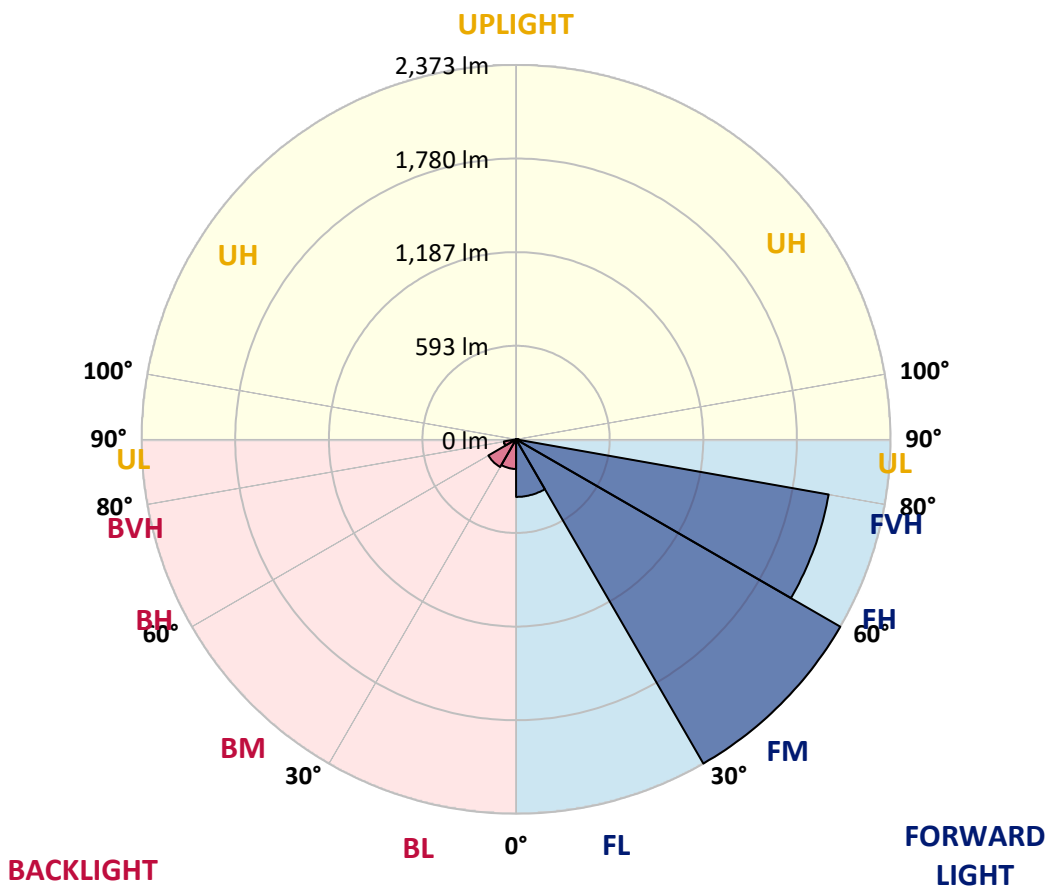
REPORT NUMBER: P631572

CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.1	7.0			
FM (30°-60°)	2373.5	45.3			
FH (60°-80°)	2012.4	38.4			G2/5000
FVH (80°-90°)	17.6	0.3			G1/100
BL (0°-30°)	187.4	3.6	B1/500		
BM (30°-60°)	202.7	3.9	B0/220		
BH (60°-80°)	78.5	1.5	B0/110		G0/110
BVH (80°-90°)	2.0	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 III Medium





REPORT NUMBER: P631572

CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7
2.5°	879.4	878.0	879.0	886.1	899.6	905.8	916.4	918.3	926.9	938.0	942.3
5°	822.3	817.5	819.9	830.0	845.4	862.6	882.3	887.6	909.2	933.6	951.9
7.5°	770.0	764.8	770.5	786.4	807.9	826.7	855.9	859.3	893.8	937.0	970.1
10°	688.0	689.4	701.0	728.8	761.9	800.7	840.1	844.9	887.6	948.0	999.4
12.5°	625.1	621.8	634.3	665.9	712.5	769.1	828.1	834.3	888.1	964.8	1036.8
15°	595.9	594.9	600.2	623.2	668.3	735.0	817.1	825.2	894.3	980.2	1072.3
17.5°	596.8	595.4	594.9	608.4	641.9	709.6	805.1	815.6	899.6	997.0	1109.7
20°	638.6	631.9	619.9	613.6	633.8	693.3	796.9	808.9	907.3	1014.7	1149.5
22.5°	725.9	728.3	696.2	662.6	653.0	695.2	795.9	809.9	924.1	1042.6	1198.5
25°	900.5	896.7	837.2	761.9	709.6	717.3	812.7	829.5	957.2	1082.4	1244.5
27.5°	1119.3	1122.7	1041.1	921.2	811.8	762.8	843.4	860.2	995.5	1107.3	1275.2
30°	1357.8	1354.4	1267.1	1134.2	956.7	838.6	874.2	889.0	1014.7	1120.8	1306.9
32.5°	1583.3	1575.6	1489.2	1350.1	1141.4	958.1	916.4	925.0	1040.2	1150.0	1349.6
35°	1775.7	1775.2	1699.8	1551.6	1331.4	1107.8	988.8	996.0	1087.7	1196.6	1412.5
37.5°	1974.3	1967.6	1883.1	1747.8	1526.6	1271.9	1099.6	1096.8	1162.5	1265.2	1489.7
40°	2137.4	2133.1	2068.3	1938.3	1729.6	1453.2	1234.0	1225.3	1251.3	1360.2	1597.2
42.5°	2258.3	2258.8	2238.6	2159.5	1944.5	1662.9	1402.9	1389.4	1389.0	1503.6	1739.2
45°	2349.9	2356.2	2386.4	2374.4	2198.3	1907.1	1619.2	1605.3	1581.8	1689.8	1901.8
47.5°	2392.6	2400.8	2492.0	2539.9	2420.5	2149.4	1876.9	1847.6	1801.6	1937.3	2083.7
50°	2388.3	2402.7	2529.9	2675.7	2622.0	2395.0	2157.6	2143.6	2068.3	2199.3	2263.6
52.5°	2290.5	2321.2	2532.3	2758.2	2776.9	2621.5	2447.8	2421.9	2385.5	2472.8	2432.5
55°	2024.7	2062.1	2431.0	2784.6	2897.9	2819.2	2731.8	2710.7	2650.3	2730.9	2579.8
57.5°	1880.2	1912.4	2218.0	2771.7	3000.5	3002.0	2984.7	2967.4	2917.5	2986.1	2752.5
60°	1793.4	1825.6	2104.3	2724.2	3093.6	3194.8	3222.2	3220.3	3148.3	3276.4	2954.9
62.5°	1666.3	1710.4	1985.8	2600.9	3159.8	3384.8	3467.3	3454.4	3374.3	3578.7	3155.5
65°	1409.6	1448.0	1743.0	2397.4	3120.9	3542.2	3733.1	3739.9	3647.3	3863.2	3313.8
67.5°	988.3	1016.6	1309.8	1970.4	2857.1	3594.0	4005.2	4004.7	3846.9	4009.0	3243.8
70°	572.9	611.7	773.9	1218.2	2222.8	3358.4	4046.0	4059.9	3765.8	3704.4	2684.4
72.5°	221.7	253.8	438.5	647.2	1159.1	2572.6	3480.3	3521.1	3151.7	2857.6	1868.3
75°	66.2	73.9	206.3	344.5	465.4	1242.6	2356.2	2367.7	2161.9	1782.4	957.6
77.5°	49.4	54.7	90.2	174.2	163.1	376.6	1219.1	1331.4	1147.6	636.7	263.9
80°	33.6	39.8	64.3	84.9	60.5	100.3	342.6	376.1	350.2	143.0	66.2
82.5°	14.9	19.2	45.6	42.7	22.1	28.8	105.6	112.3	72.4	43.2	23.0
85°	1.4	1.9	17.3	18.7	8.2	6.7	22.1	22.1	15.8	14.9	9.6
87.5°	0.0	0.0	0.5	1.0	1.0	1.4	1.9	2.4	2.9	3.8	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



REPORT NUMBER: P631572  
 CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7	944.7
2.5°	953.3	947.6	954.8	960.5	962.0	951.4	945.2	936.0	934.1	934.6	932.2
5°	966.3	963.4	968.7	962.4	946.1	915.4	889.0	859.8	843.9	834.8	833.9
7.5°	990.3	988.8	983.1	954.8	903.9	835.8	770.0	705.8	665.9	651.5	649.1
10°	1025.8	1022.9	999.4	932.2	823.8	692.8	582.4	490.3	434.2	417.9	397.7
12.5°	1066.5	1060.8	1009.5	883.7	702.9	521.5	383.8	280.7	232.2	217.8	217.8
15°	1105.9	1093.4	1003.7	803.6	554.1	339.2	214.5	162.2	147.3	143.5	143.5
17.5°	1146.2	1122.2	981.1	694.2	382.9	200.5	143.0	132.9	131.0	131.5	131.9
20°	1184.1	1146.7	941.3	562.8	244.2	140.1	128.1	125.7	124.7	125.7	125.2
22.5°	1225.3	1169.2	880.9	419.3	158.8	126.2	121.9	119.9	119.0	120.4	120.4
25°	1266.1	1185.5	800.7	282.1	126.2	117.5	115.1	113.2	112.3	112.7	112.7
27.5°	1287.2	1179.3	695.7	179.9	113.2	108.9	106.5	104.1	102.7	102.2	102.7
30°	1301.6	1160.1	567.1	128.1	102.7	97.4	95.0	93.1	89.2	86.8	87.8
32.5°	1324.2	1140.9	427.5	107.5	94.0	85.9	82.0	77.2	72.0	69.6	69.6
35°	1351.1	1114.5	299.9	96.9	84.9	76.3	69.1	60.9	54.7	52.8	52.8
37.5°	1386.6	1089.6	199.6	89.7	77.2	68.1	58.1	48.5	41.7	40.8	40.3
40°	1439.8	1068.5	140.6	84.4	70.5	59.5	47.5	37.4	32.6	31.2	31.2
42.5°	1508.9	1046.9	111.3	79.2	64.8	51.3	37.9	29.7	25.9	24.9	24.5
45°	1594.3	1021.4	96.9	74.4	59.0	42.7	30.2	24.9	22.1	21.1	21.1
47.5°	1686.9	986.9	90.2	68.1	52.3	34.5	25.4	21.6	20.2	19.7	19.2
50°	1778.1	940.4	84.4	62.4	44.6	28.3	22.1	19.7	18.7	18.2	18.2
52.5°	1857.7	886.1	77.2	55.7	36.5	24.5	19.7	18.2	17.3	16.3	15.8
55°	1925.8	827.1	68.1	48.0	29.7	21.6	18.2	16.8	15.8	14.9	14.4
57.5°	2013.6	793.6	54.7	38.9	24.5	19.2	16.8	15.4	14.4	13.0	13.0
60°	2111.0	769.1	40.8	30.7	21.1	17.8	15.4	13.9	13.0	11.5	11.5
62.5°	2189.2	732.6	32.1	24.9	18.2	15.8	13.9	12.5	11.5	10.1	10.1
65°	2219.0	657.3	26.4	19.7	14.9	13.9	12.5	11.5	10.1	8.6	8.6
67.5°	2084.6	506.6	22.1	15.8	12.5	12.0	11.0	10.6	8.6	7.7	7.2
70°	1650.9	309.0	18.2	13.0	10.6	10.1	10.1	9.1	7.7	7.2	6.7
72.5°	1131.3	159.3	14.9	10.6	9.1	9.1	8.6	8.2	7.2	6.7	6.7
75°	587.7	53.3	11.5	8.2	7.2	7.7	7.7	7.2	6.7	6.7	6.2
77.5°	168.4	24.0	8.6	6.2	5.8	5.8	6.2	6.2	6.2	5.8	5.8
80°	43.7	13.9	6.2	4.8	4.8	4.8	4.8	5.3	5.8	5.3	5.3
82.5°	17.8	7.7	4.3	3.8	3.8	3.8	3.8	4.3	4.8	4.8	4.8
85°	11.0	3.8	3.4	3.4	3.4	2.9	2.9	3.4	3.4	3.8	3.8
87.5°	6.7	2.9	2.9	2.9	2.9	2.4	2.4	2.4	2.4	2.4	2.4
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)