

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: P630544

Luminaire Tested: GWS-SA1D-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630544
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-SA1D-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: 4039.5 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

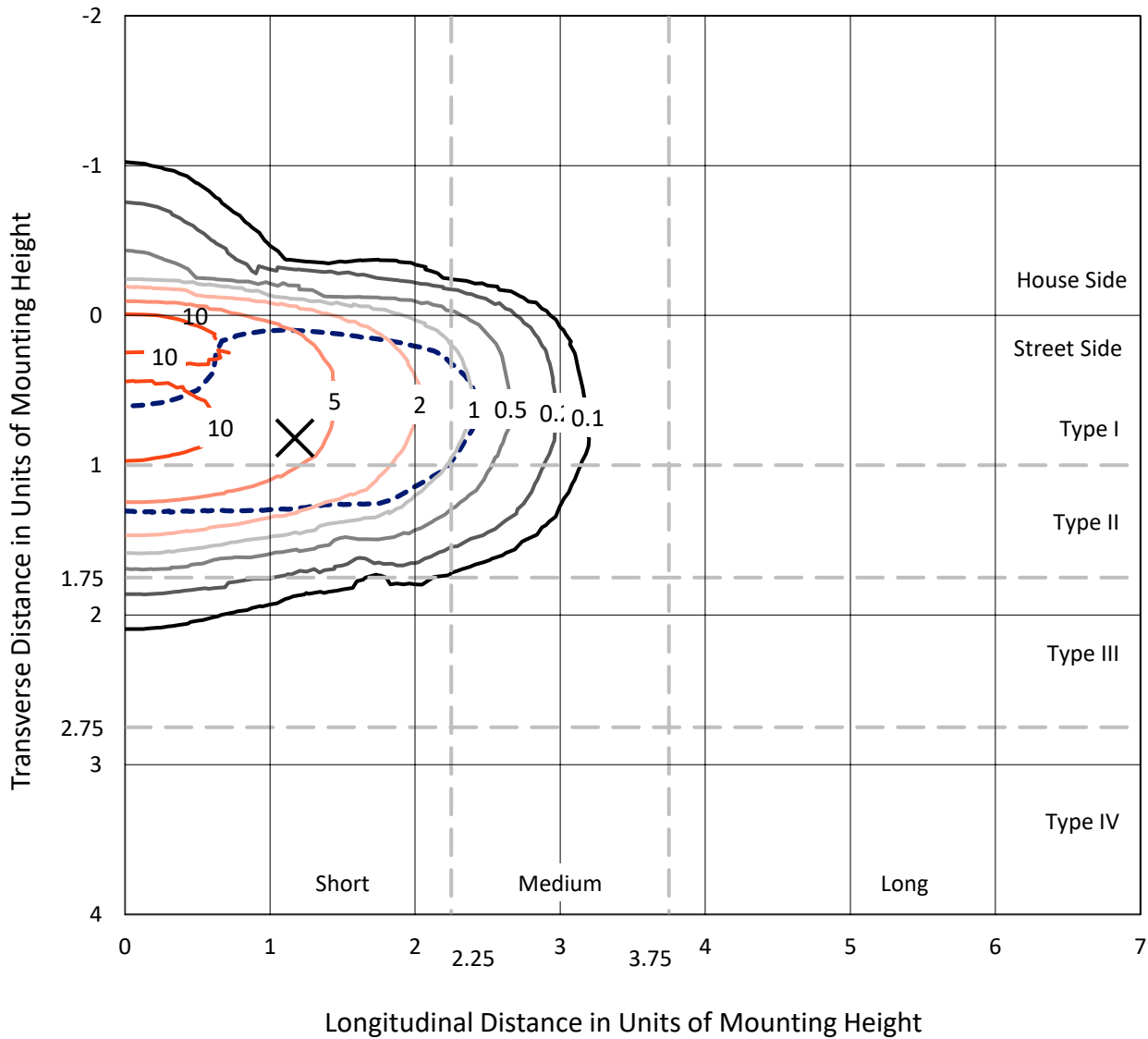
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630544
 CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

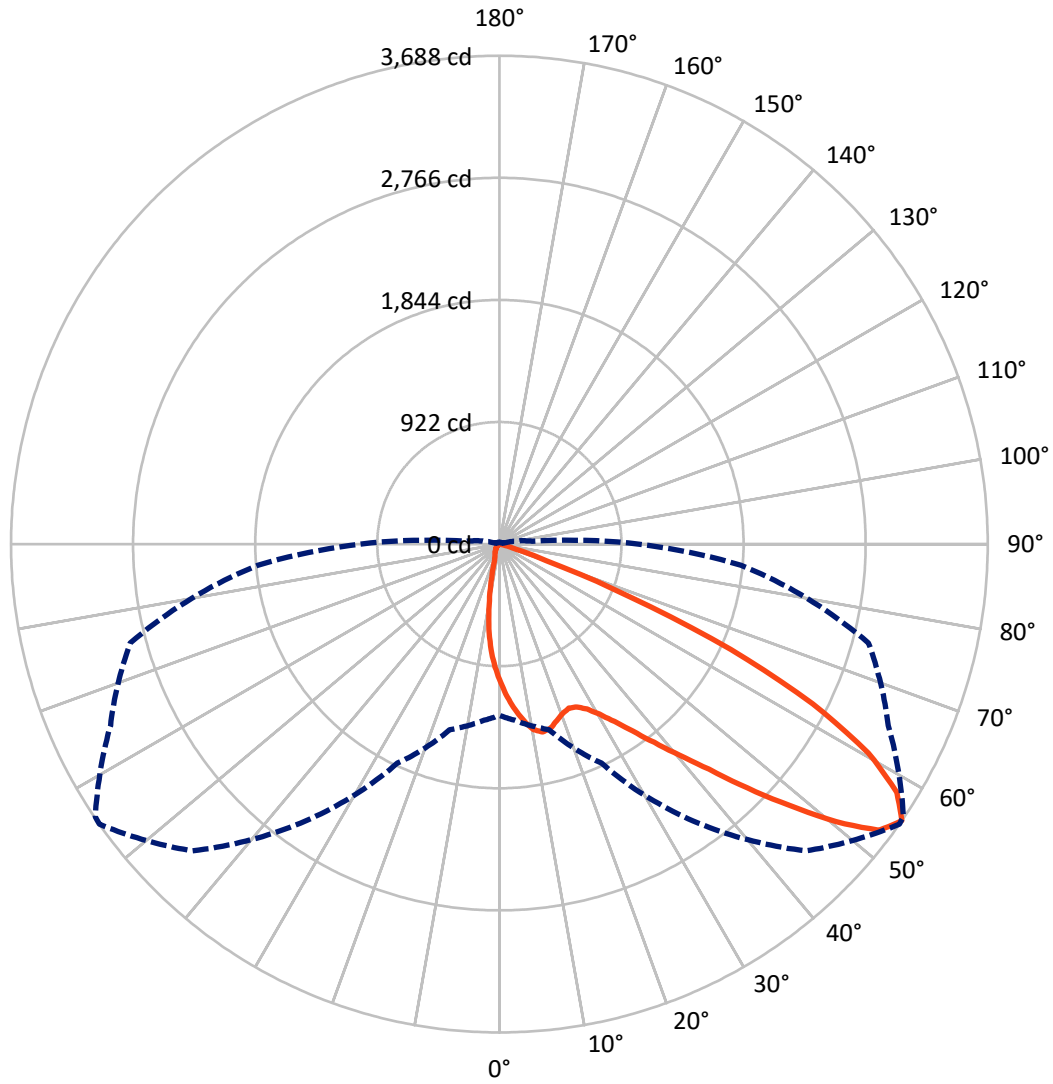
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

REPORT NUMBER: P630544
CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P630544

CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-HSS

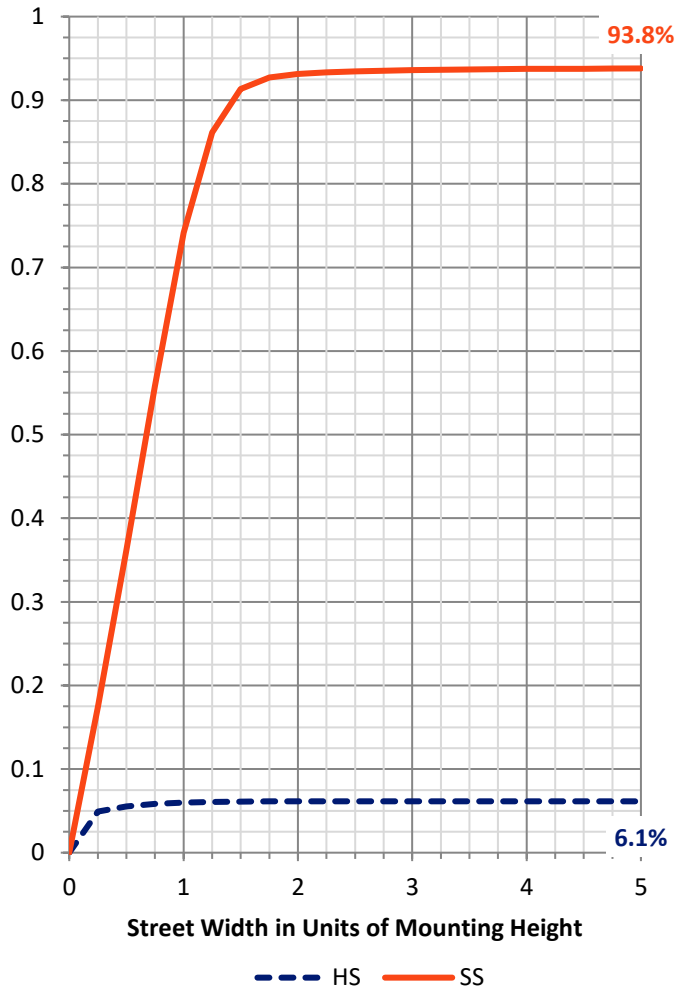
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	249.2	0.0	249.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3790.2	0.0	3790.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	4039.5	0.0	4039.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	2.3
10°-20°	222.3	5.5
20°-30°	370.3	9.2
30°-40°	631.0	15.6
40°-50°	1030.0	25.5
50°-60°	1078.4	26.7
60°-70°	543.9	13.5
70°-80°	68.7	1.7
80°-90°	2.6	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°	4039.5	100.0
0°-180°	4039.5	100.0

Coefficient of Utilization



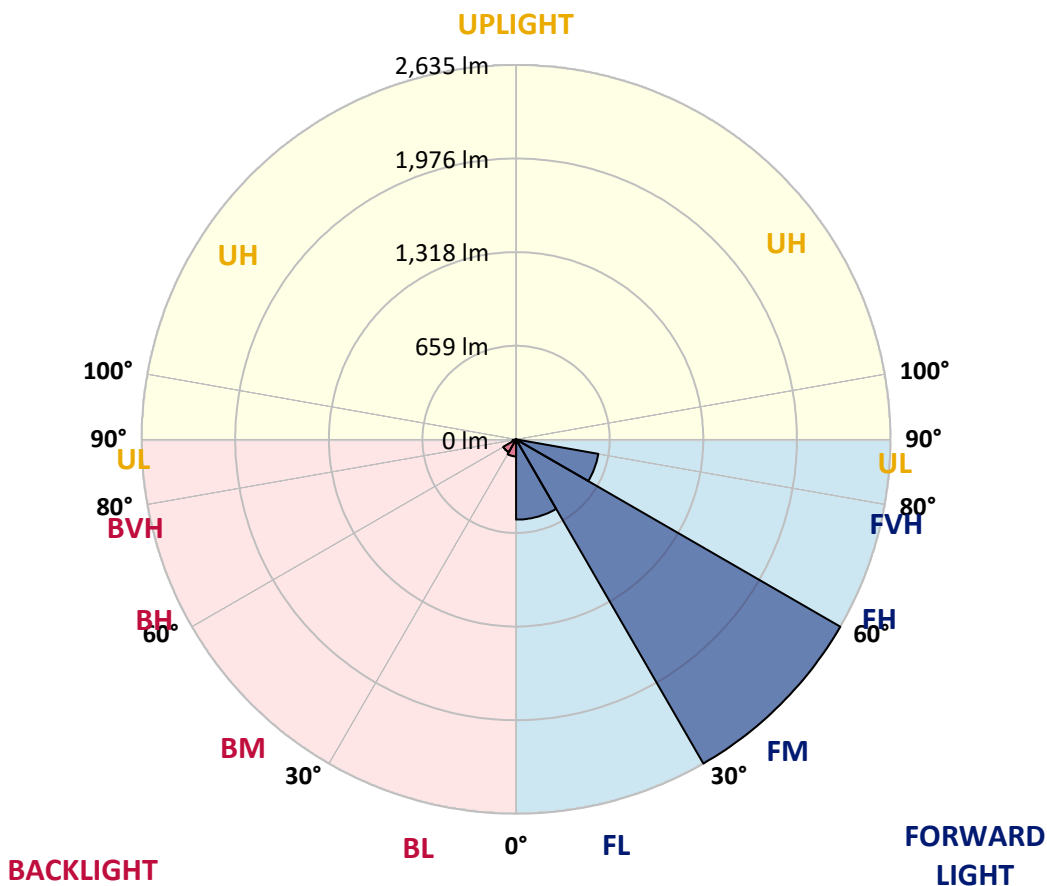
REPORT NUMBER: P630544

CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.1	14.0			
FM (30°-60°)	2635.2	65.2			
FH (60°-80°)	587.6	14.5			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	119.8	3.0	B1/500		
BM (30°-60°)	104.2	2.6	B0/220		
BH (60°-80°)	25.0	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: B1-U0-G0
 Type II Short





REPORT NUMBER: P630544

CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1216.6	1210.7	1219.7	1209.3	1191.7	1176.9	1157.5	1150.6	1119.5	1090.2	1061.9
5°	1364.4	1366.1	1363.3	1348.8	1324.0	1296.3	1257.3	1248.7	1194.5	1138.5	1078.1
7.5°	1401.0	1399.9	1405.8	1411.3	1407.2	1393.4	1350.9	1342.3	1274.9	1191.0	1103.0
10°	1288.1	1288.8	1300.8	1338.1	1384.4	1432.4	1425.8	1421.0	1355.1	1250.4	1130.6
12.5°	1128.5	1134.7	1147.5	1200.7	1279.1	1388.2	1455.9	1460.7	1428.6	1315.7	1163.1
15°	1059.5	1060.8	1071.2	1103.3	1161.7	1296.3	1443.1	1456.6	1490.1	1381.3	1198.3
17.5°	1057.7	1059.5	1063.9	1078.1	1116.1	1224.2	1402.0	1425.5	1536.3	1451.7	1240.4
20°	1122.6	1121.6	1118.5	1110.9	1127.5	1200.3	1364.0	1389.9	1561.6	1520.5	1282.9
22.5°	1240.4	1239.0	1225.2	1193.8	1180.3	1222.1	1345.4	1368.9	1576.8	1581.6	1317.8
25°	1376.1	1385.8	1359.9	1312.2	1279.1	1277.7	1362.0	1378.5	1589.9	1635.8	1341.6
27.5°	1525.0	1528.1	1506.0	1452.4	1404.4	1366.8	1410.0	1422.4	1604.4	1684.1	1355.1
30°	1688.3	1687.3	1662.0	1599.9	1541.5	1487.3	1490.8	1495.6	1638.2	1739.4	1369.9
32.5°	1892.4	1896.9	1852.0	1767.4	1697.3	1622.3	1596.4	1597.1	1699.3	1810.5	1392.3
35°	2169.7	2158.6	2099.2	1978.7	1859.2	1778.4	1734.2	1730.4	1793.6	1906.2	1431.4
37.5°	2433.8	2434.9	2372.7	2240.1	2089.2	1961.8	1899.3	1888.9	1926.2	2038.8	1496.3
40°	2617.2	2620.7	2594.8	2525.4	2365.5	2185.2	2093.4	2082.7	2098.2	2206.6	1581.2
42.5°	2714.2	2723.9	2731.2	2747.4	2626.2	2464.2	2323.0	2322.0	2305.7	2397.9	1679.7
45°	2718.0	2732.6	2776.8	2887.6	2901.4	2782.6	2629.0	2605.8	2543.3	2602.7	1767.7
47.5°	2567.8	2601.3	2695.3	2914.9	3059.9	3099.3	2947.0	2932.8	2757.4	2764.7	1833.7
50°	2217.7	2252.6	2425.6	2775.0	3100.0	3350.7	3296.1	3266.8	2936.3	2871.7	1865.4
52.5°	1858.5	1890.3	2007.7	2442.1	2933.9	3429.8	3590.3	3555.5	3096.9	2909.0	1852.3
55°	1293.2	1335.7	1450.4	1825.4	2551.3	3275.7	3687.7	3680.5	3240.2	2885.5	1831.9
57.5°	634.0	676.1	790.4	1125.4	1890.0	2860.0	3538.9	3577.2	3325.8	2860.3	1815.4
60°	264.9	282.1	321.5	493.8	1057.4	2161.4	3202.9	3256.1	3273.3	2826.1	1813.6
62.5°	153.7	156.4	160.6	204.8	411.3	1239.0	2656.9	2732.6	2997.4	2780.9	1786.4
65°	116.0	117.1	115.3	125.7	169.9	470.0	1919.7	2022.6	2501.9	2604.1	1678.6
67.5°	95.3	95.3	90.8	92.9	106.7	176.1	1059.8	1203.5	1851.3	2140.3	1386.1
70°	76.0	77.7	75.6	72.9	76.3	97.4	377.1	467.6	1078.1	1263.9	808.4
72.5°	57.7	57.7	61.1	59.1	56.6	61.1	131.6	147.8	432.7	527.0	291.8
75°	44.5	45.9	48.3	46.3	42.8	36.3	63.2	67.0	130.5	122.6	65.3
77.5°	22.8	23.1	30.7	33.8	31.8	22.1	27.6	30.4	42.5	38.0	24.2
80°	13.8	14.5	17.3	26.6	21.1	11.7	11.4	12.1	20.0	17.3	10.0
82.5°	5.9	6.2	9.7	9.7	8.6	4.5	4.5	4.5	9.7	9.0	4.1
85°	0.0	0.0	1.7	1.4	1.4	1.7	1.7	1.7	2.4	3.5	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0
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: P630544
 CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1043.6	1021.5	991.8	964.8	928.6	908.2	879.9	856.7	837.1	830.9	828.1
5°	1043.9	1005.9	942.4	878.9	800.8	739.3	676.1	626.1	585.0	571.9	568.4
7.5°	1050.8	994.9	892.0	776.6	646.1	538.4	442.0	355.7	315.6	302.2	299.4
10°	1060.1	985.6	833.6	654.0	466.5	328.1	232.4	177.2	150.9	136.4	138.5
12.5°	1072.2	978.0	769.0	521.4	308.7	180.3	127.8	107.1	101.5	98.8	97.4
15°	1088.5	969.0	688.9	389.9	189.2	116.0	98.4	92.9	90.8	89.4	89.1
17.5°	1105.0	958.6	607.4	274.2	125.7	96.3	88.4	85.6	84.3	83.2	82.9
20°	1122.6	941.0	511.8	188.9	99.1	86.7	81.5	78.4	76.7	74.9	74.6
22.5°	1130.2	912.7	420.3	132.3	88.1	79.8	73.2	69.4	67.3	66.0	66.0
25°	1123.0	866.8	325.6	100.5	80.1	72.2	65.6	61.5	59.7	58.4	58.4
27.5°	1103.7	807.7	237.6	83.2	71.5	64.2	58.0	54.2	52.8	52.1	52.1
30°	1082.2	733.1	167.5	71.5	61.8	55.9	50.8	48.3	48.0	47.3	47.3
32.5°	1063.9	663.4	115.3	62.8	54.6	48.7	45.2	44.2	44.5	43.9	44.2
35°	1053.9	595.0	85.6	55.9	48.7	43.2	41.4	41.4	41.4	41.1	41.1
37.5°	1058.1	527.7	69.8	51.1	43.5	39.4	37.6	38.3	39.0	39.0	39.0
40°	1078.8	467.9	61.8	46.6	39.0	35.9	34.5	35.6	36.6	37.3	37.3
42.5°	1105.0	419.6	55.9	42.8	35.9	32.5	31.8	32.8	33.8	34.5	34.5
45°	1121.6	370.9	50.1	38.0	32.8	28.7	28.7	30.0	29.7	30.0	30.0
47.5°	1129.2	332.2	44.2	32.8	28.0	24.9	25.2	25.9	25.2	25.9	25.9
50°	1110.6	293.2	39.0	27.3	23.1	21.8	22.4	22.1	22.1	23.5	23.5
52.5°	1076.4	264.2	34.5	23.1	19.7	19.3	20.0	18.6	19.0	19.0	18.6
55°	1051.2	247.6	30.7	20.0	16.9	17.3	16.9	14.5	13.1	11.7	11.4
57.5°	1038.7	241.0	28.0	18.0	15.2	15.2	13.8	10.0	7.6	5.9	5.2
60°	1036.0	233.1	25.2	15.5	13.5	12.8	10.0	5.9	3.8	2.8	2.4
62.5°	1009.7	213.8	22.8	12.4	11.7	10.4	6.2	3.5	2.1	1.4	1.0
65°	923.7	175.8	20.4	9.7	9.0	7.6	3.8	2.1	1.0	0.3	0.0
67.5°	734.9	124.7	18.0	7.3	6.2	4.8	2.4	1.4	0.3	0.0	0.0
70°	423.7	67.3	14.8	5.2	4.1	3.1	1.7	0.7	0.0	0.0	0.0
72.5°	141.6	31.4	11.4	3.5	3.1	2.4	1.0	0.3	0.0	0.0	0.0
75°	31.1	18.6	7.6	2.4	2.1	1.7	0.7	0.0	0.0	0.0	0.0
77.5°	11.7	13.1	3.8	1.7	1.4	1.0	0.3	0.0	0.0	0.0	0.0
80°	4.5	8.6	1.7	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	3.5	1.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	1.7	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)