

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: P630543

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
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-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4370 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

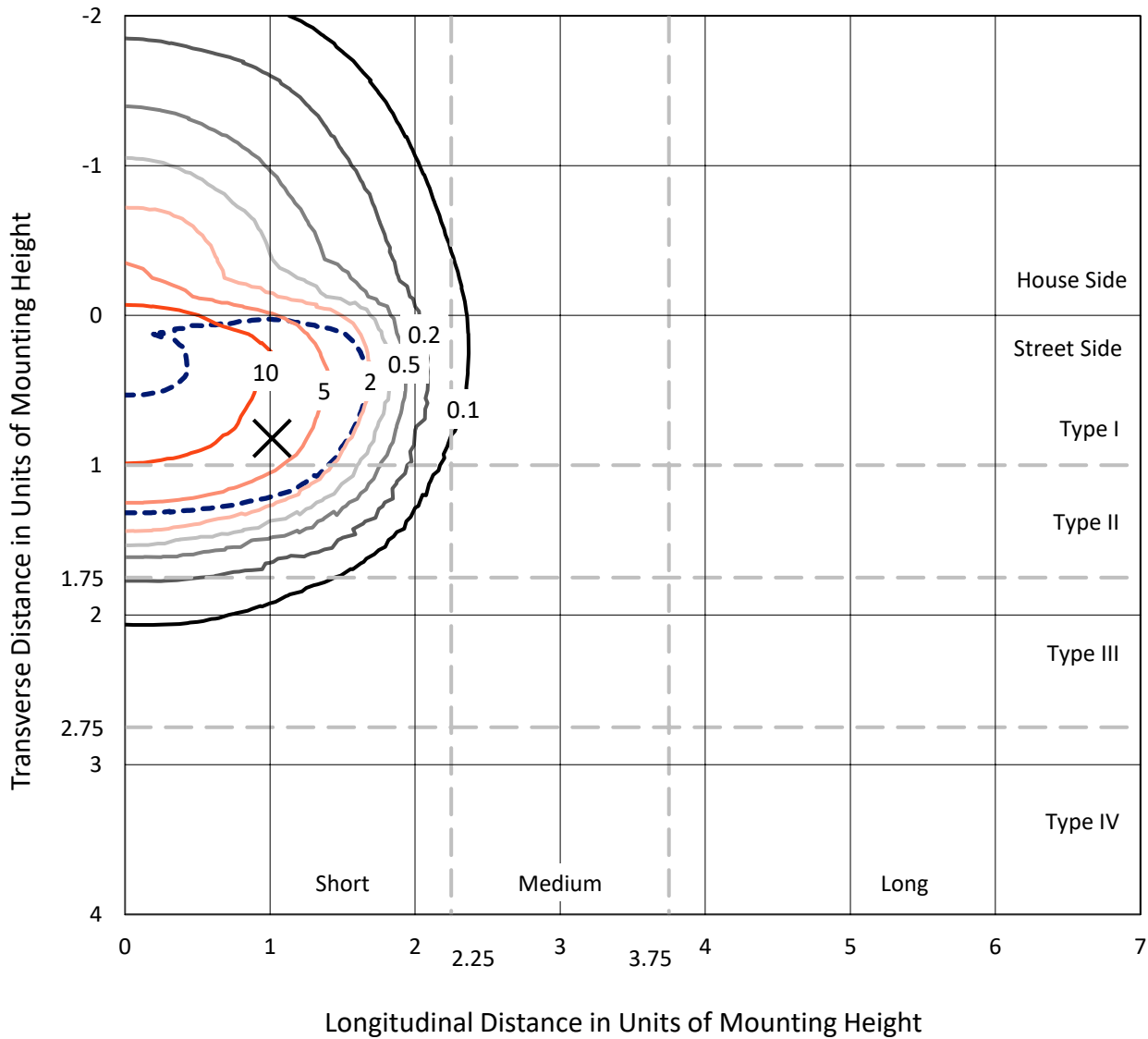
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630543
 CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

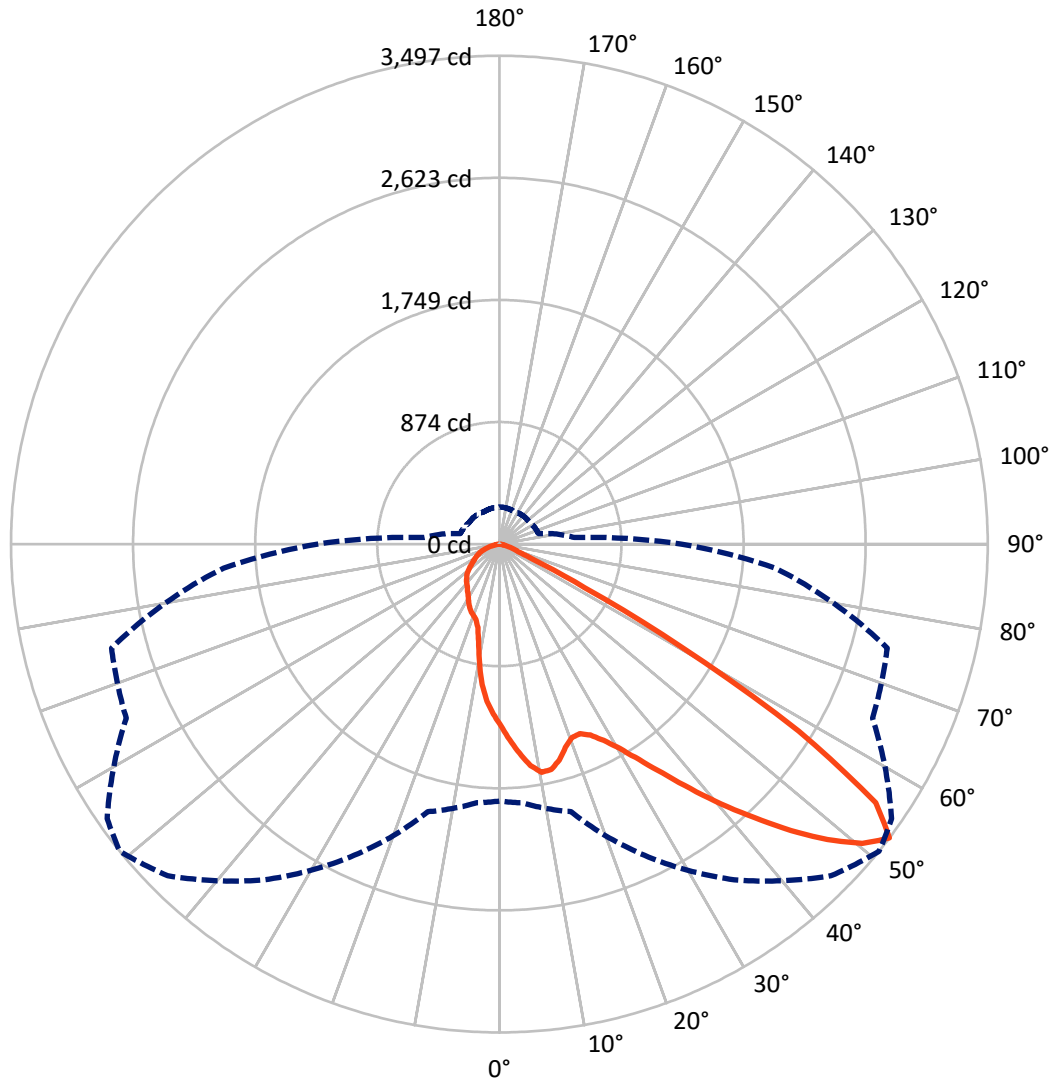
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P630543
CATALOG NUMBER: GWS-SA1D-830-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P630543

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

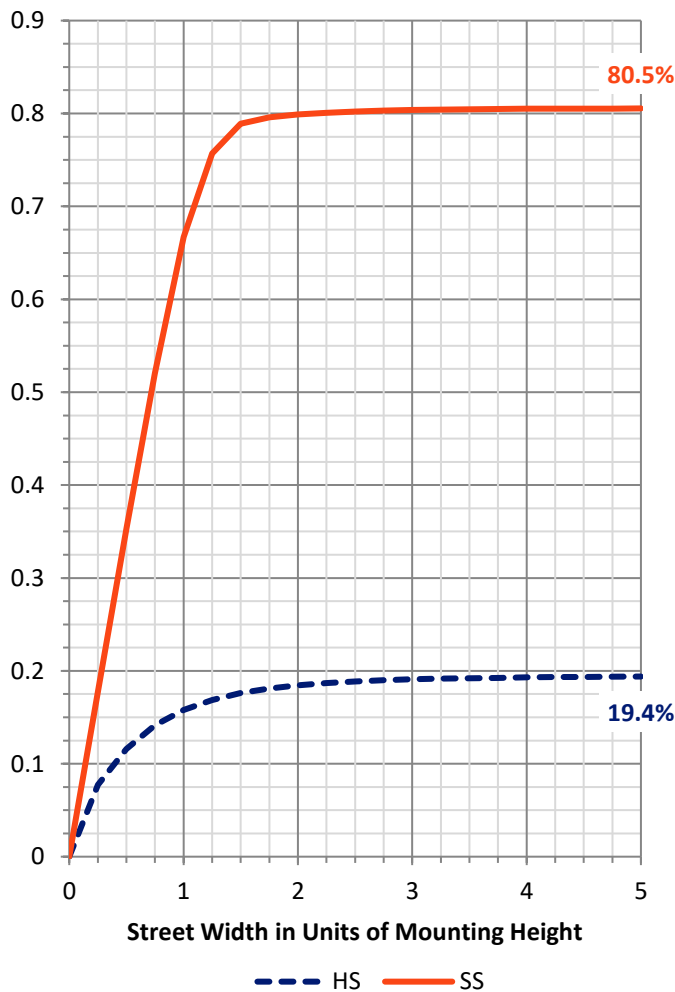
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	851.5	0.0	851.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3518.5	0.0	3518.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	4370.0	0.0	4370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	2.8
10°-20°	315.5	7.2
20°-30°	513.0	11.7
30°-40°	812.9	18.6
40°-50°	1226.1	28.1
50°-60°	1060.6	24.3
60°-70°	240.5	5.5
70°-80°	70.9	1.6
80°-90°	9.1	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°	4370.0	100.0
0°-180°	4370.0	100.0

Coefficient of Utilization



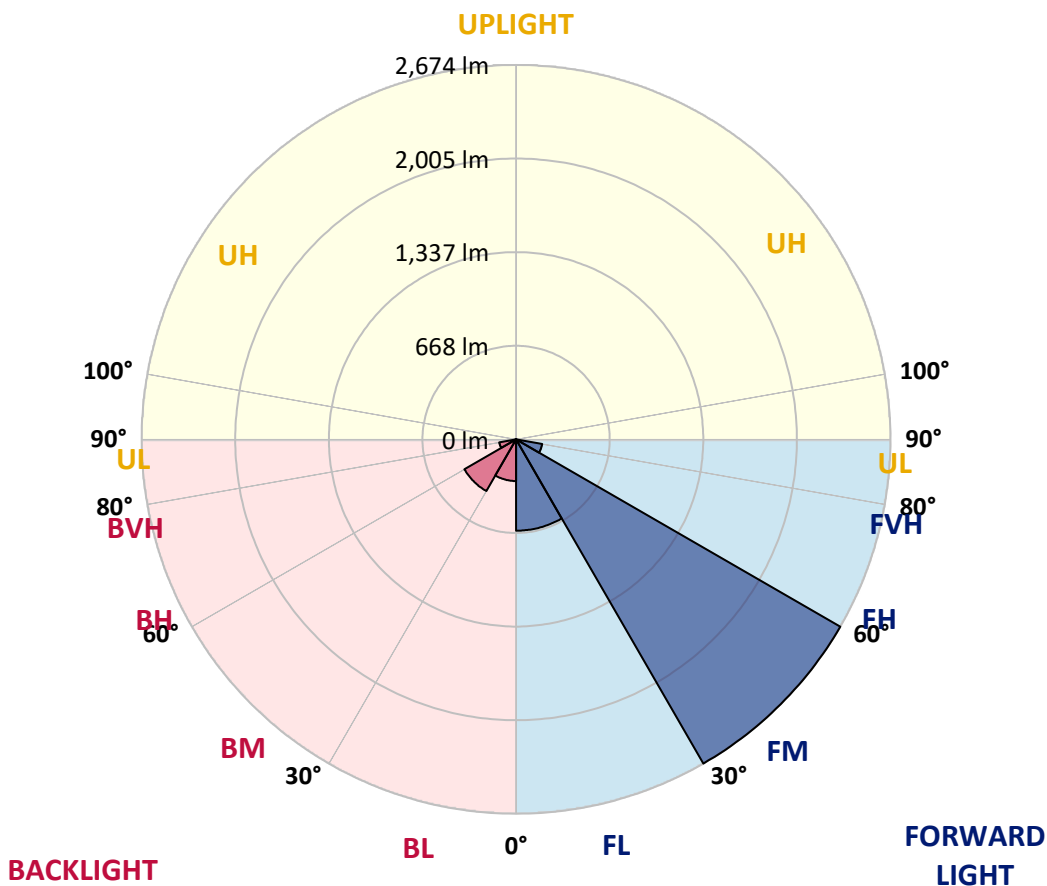
REPORT NUMBER: P630543

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

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.2	14.9			
FM (30°-60°)	2673.6	61.2			
FH (60°-80°)	189.2	4.3			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	297.6	6.8	B1/500		
BM (30°-60°)	426.0	9.7	B1/1000		
BH (60°-80°)	122.1	2.8	B1/500		G1/500
BVH (80°-90°)	5.7	0.1			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 II Short





REPORT NUMBER: P630543

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1450.0	1458.3	1445.5	1440.7	1432.7	1418.9	1403.0	1398.5	1364.4	1341.9	1316.7
5°	1595.7	1600.2	1589.9	1579.5	1559.8	1535.3	1504.6	1498.0	1435.8	1384.4	1330.9
7.5°	1628.2	1626.5	1635.4	1641.3	1638.9	1629.2	1601.9	1589.2	1514.9	1433.4	1354.3
10°	1499.7	1490.1	1523.2	1562.6	1609.9	1664.4	1661.3	1660.3	1595.7	1499.4	1384.4
12.5°	1329.5	1324.6	1351.6	1401.0	1490.4	1611.3	1656.5	1691.7	1668.6	1562.2	1417.9
15°	1232.1	1230.4	1248.7	1284.2	1355.4	1508.0	1604.7	1674.5	1731.1	1629.6	1453.5
17.5°	1214.5	1215.5	1221.7	1242.1	1293.2	1418.9	1530.8	1628.2	1779.8	1703.5	1498.0
20°	1265.9	1272.9	1262.1	1265.3	1292.9	1386.8	1480.4	1581.6	1810.9	1777.7	1546.0
22.5°	1380.2	1377.8	1354.3	1340.5	1340.9	1406.5	1474.9	1559.8	1831.2	1849.9	1589.5
25°	1509.7	1507.0	1479.0	1448.3	1428.9	1460.0	1514.6	1582.9	1849.5	1915.8	1624.4
27.5°	1662.7	1654.1	1623.0	1583.6	1540.8	1554.3	1591.2	1645.5	1877.9	1980.8	1647.5
30°	1810.9	1820.9	1776.3	1729.7	1684.5	1676.2	1697.6	1746.6	1935.5	2056.7	1675.1
32.5°	2007.3	2003.9	1954.5	1893.7	1829.2	1822.9	1839.9	1884.8	2039.1	2161.7	1717.3
35°	2245.3	2246.0	2175.9	2093.7	2001.8	1985.2	2013.6	2057.1	2193.5	2304.0	1783.9
37.5°	2492.5	2491.5	2430.4	2337.1	2211.8	2188.3	2220.8	2253.2	2386.5	2497.7	1887.5
40°	2665.9	2672.8	2644.1	2595.1	2476.3	2419.0	2447.6	2470.1	2596.5	2725.6	2023.9
42.5°	2764.3	2774.6	2780.9	2810.2	2747.7	2686.6	2676.2	2688.0	2784.0	2937.3	2152.0
45°	2785.4	2799.2	2844.4	2953.2	2977.4	2960.1	2926.2	2897.9	2923.8	3087.5	2235.9
47.5°	2692.5	2716.6	2813.3	3003.6	3144.8	3199.0	3161.4	3118.2	3004.6	3126.2	2227.3
50°	2324.4	2352.7	2570.6	2900.7	3168.7	3366.2	3369.6	3305.8	2995.0	3014.6	2118.9
52.5°	1840.2	1859.6	1984.2	2459.0	2934.9	3359.3	3497.4	3429.0	2948.3	2875.1	1983.2
55°	1099.8	1130.9	1247.3	1622.3	2286.4	2977.4	3271.6	3304.7	2925.6	2758.1	1890.6
57.5°	371.2	386.4	497.6	716.5	1347.4	2180.0	2527.7	2662.4	2655.9	2579.2	1710.0
60°	176.8	180.3	202.7	271.8	539.4	1139.2	1496.3	1651.7	1793.2	1807.4	1063.9
62.5°	134.7	136.7	148.1	163.0	216.9	480.0	685.8	804.6	859.5	737.6	387.4
65°	112.6	114.3	122.9	132.3	147.5	207.9	263.1	303.5	273.5	213.1	184.7
67.5°	93.9	95.3	101.9	111.9	122.2	139.2	146.1	150.2	157.5	176.8	169.9
70°	73.6	74.9	81.8	90.5	100.5	104.6	111.2	115.3	129.8	154.7	154.0
72.5°	56.6	58.4	62.2	67.7	76.0	80.1	87.4	92.2	100.5	120.5	128.8
75°	41.4	42.5	45.9	47.7	48.7	47.7	54.9	60.4	71.5	79.1	81.2
77.5°	16.9	19.0	18.3	18.3	21.8	26.2	30.0	33.5	41.1	45.6	45.9
80°	6.9	7.6	9.0	10.0	12.1	15.5	18.0	19.3	22.8	25.6	27.6
82.5°	4.1	4.5	5.2	5.5	6.9	9.0	10.4	11.4	14.2	16.9	18.0
85°	2.1	2.1	2.4	2.8	3.5	4.1	4.8	5.5	7.3	9.0	10.0
87.5°	0.3	0.3	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.5
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: P630543

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1301.9	1283.2	1261.5	1244.2	1224.2	1209.3	1188.2	1175.1	1162.7	1152.3	1144.7
5°	1303.2	1271.8	1226.6	1186.5	1145.1	1105.7	1065.3	1032.5	1003.2	978.6	976.6
7.5°	1311.2	1265.9	1195.2	1125.1	1044.2	966.2	888.2	824.6	776.3	751.1	745.9
10°	1324.6	1265.3	1163.0	1051.2	913.4	787.7	695.1	646.8	618.8	608.8	605.3
12.5°	1338.8	1263.5	1121.9	946.9	755.6	645.4	594.6	588.8	594.0	594.6	594.3
15°	1356.1	1262.5	1070.1	824.6	640.2	579.4	582.9	595.3	607.4	610.2	610.2
17.5°	1377.1	1260.1	999.7	705.1	568.1	566.7	585.0	601.5	612.9	615.0	615.0
20°	1399.2	1253.9	913.0	607.8	538.7	558.7	578.4	591.2	599.1	601.9	602.2
22.5°	1414.4	1237.3	813.2	535.6	520.4	543.5	557.7	570.8	570.8	563.9	561.8
25°	1417.5	1201.7	705.1	486.2	498.6	520.1	534.6	527.0	512.8	507.3	506.9
27.5°	1406.1	1149.9	598.4	451.0	472.4	493.8	491.4	480.3	474.1	468.6	470.7
30°	1392.3	1087.8	505.9	422.0	442.0	463.1	454.8	451.0	446.5	440.3	441.7
32.5°	1383.0	1018.3	434.8	399.5	421.6	425.1	431.0	430.6	426.5	414.7	414.0
35°	1385.8	948.2	387.1	381.2	404.7	403.3	414.4	412.3	383.7	367.4	366.4
37.5°	1407.9	880.9	359.1	366.7	377.8	386.4	396.1	371.2	361.2	350.8	351.5
40°	1450.0	818.4	343.9	358.8	361.6	374.3	351.9	351.5	347.0	337.7	337.4
42.5°	1497.7	765.6	333.6	355.0	351.2	353.6	329.8	332.5	332.2	326.3	324.6
45°	1526.7	716.9	325.3	340.8	341.9	317.7	310.4	313.6	315.3	312.2	311.8
47.5°	1496.6	660.9	316.7	319.1	328.1	301.5	292.5	292.8	295.9	296.3	294.9
50°	1412.4	598.4	306.3	300.4	294.6	284.5	276.3	274.5	277.6	280.7	281.8
52.5°	1303.6	538.7	289.0	280.1	266.2	266.2	262.4	256.9	261.1	265.2	266.6
55°	1223.8	494.5	264.5	254.5	239.3	244.5	243.8	239.0	244.5	247.6	248.6
57.5°	1060.5	397.5	232.7	229.6	216.9	223.1	224.5	218.2	215.5	216.2	217.2
60°	629.5	256.6	210.0	209.6	198.2	205.5	209.6	203.4	195.1	196.1	197.5
62.5°	282.5	196.1	181.3	179.9	179.6	188.9	193.4	187.5	175.8	176.8	178.2
65°	177.8	169.6	157.5	157.5	163.0	170.9	174.4	169.6	156.1	154.4	155.7
67.5°	165.1	157.8	145.4	143.0	145.7	152.3	152.6	143.3	135.4	134.0	134.0
70°	148.1	142.6	130.5	125.7	124.7	124.3	123.3	120.9	115.7	114.3	115.0
72.5°	122.6	118.8	111.2	106.0	103.3	102.9	98.8	96.7	92.2	91.5	91.2
75°	81.2	82.2	82.2	81.5	79.1	78.0	73.6	71.5	66.3	64.2	63.9
77.5°	48.0	49.0	50.4	50.8	50.4	50.4	46.3	43.9	38.7	35.9	35.2
80°	29.4	30.0	30.7	31.8	30.4	29.4	25.6	23.1	20.7	19.0	18.6
82.5°	19.0	19.7	20.0	20.7	20.0	18.6	15.5	14.2	12.4	11.1	10.7
85°	10.7	11.1	11.7	11.7	10.7	9.7	7.9	6.9	5.9	5.2	5.2
87.5°	3.8	3.8	3.8	4.1	3.5	3.1	2.1	1.4	1.0	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

(END OF REPORT)