

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: P631041

Luminaire Tested: GWS-SA1E-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3901.4 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

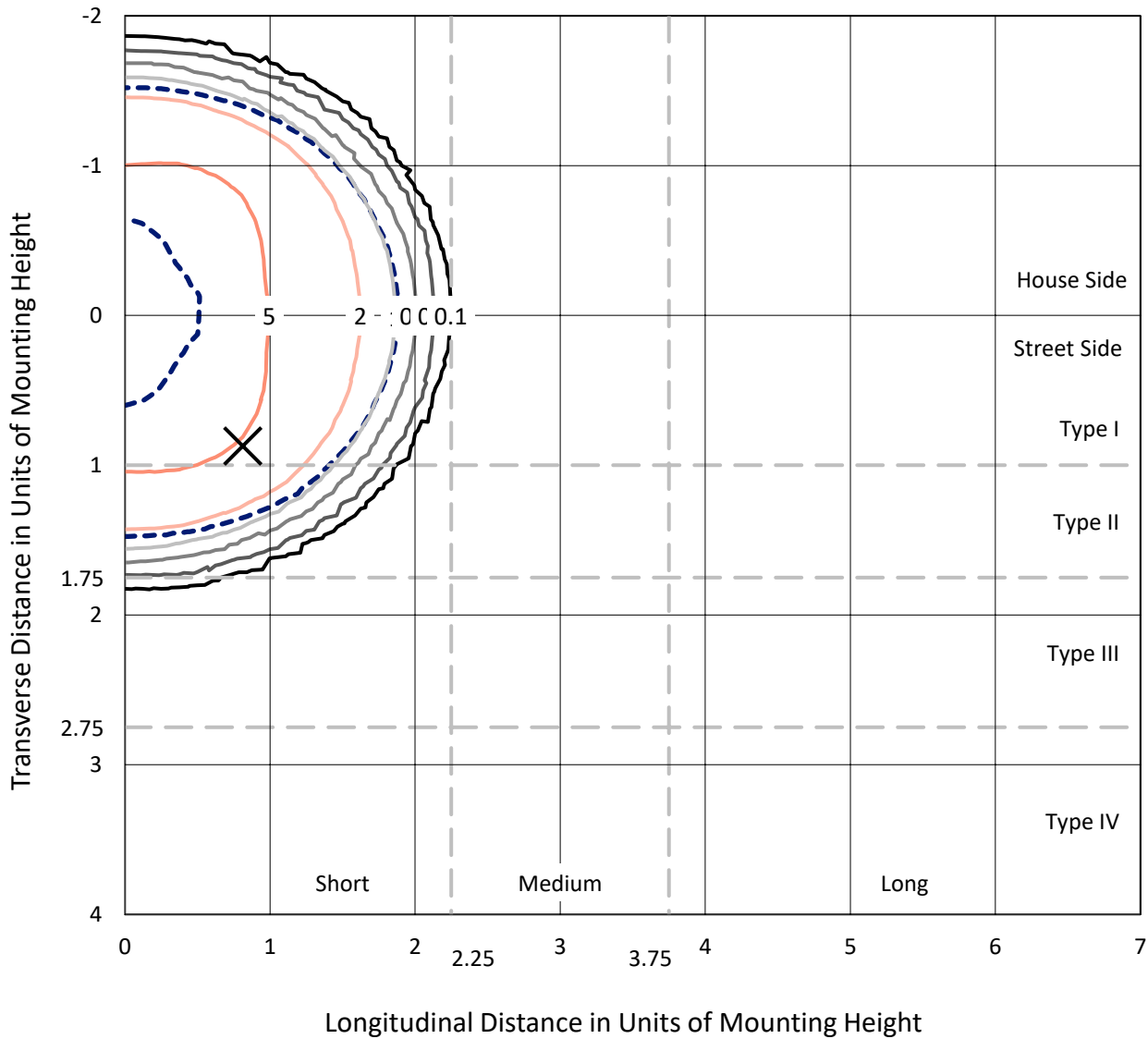
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631041
 CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

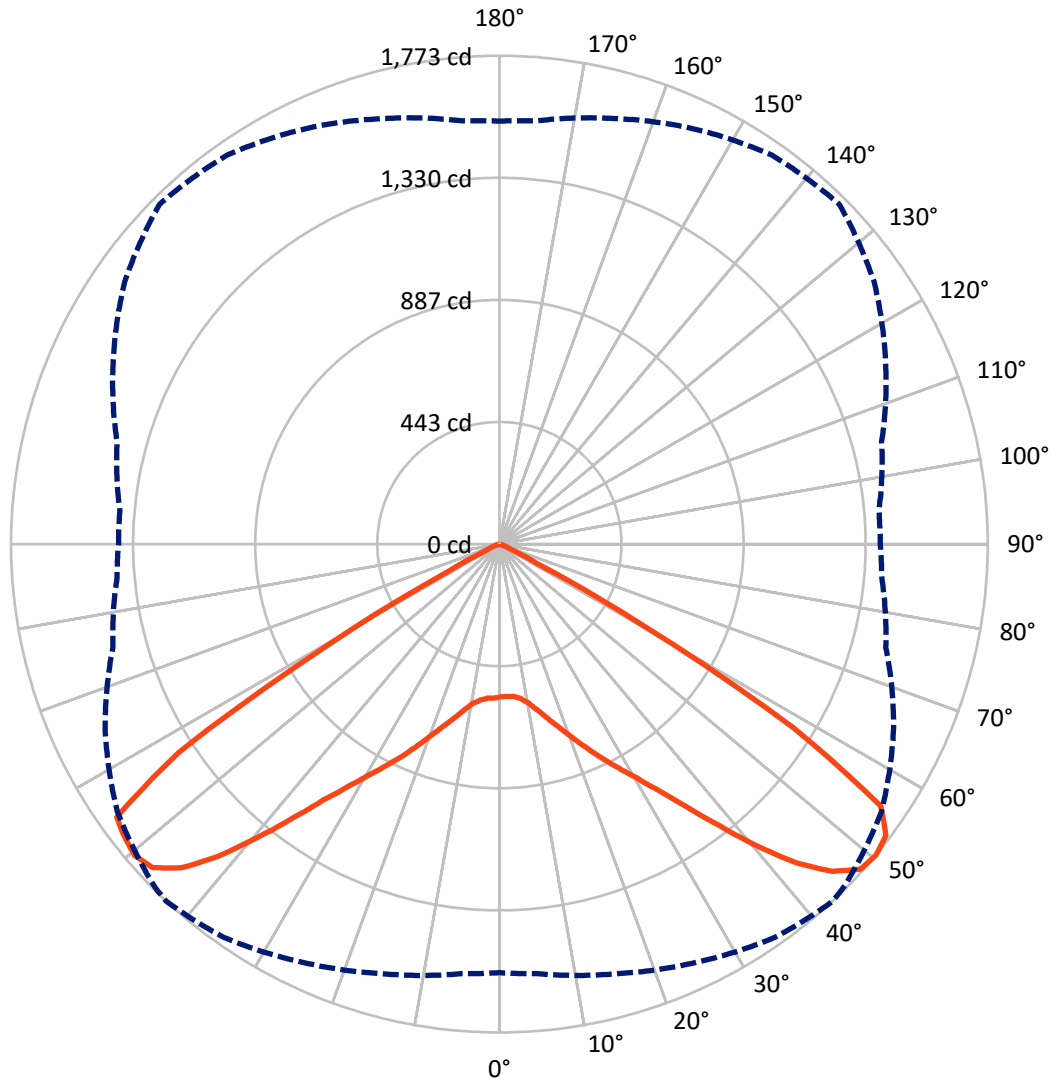
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

REPORT NUMBER: P631041
CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P631041

CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSBK

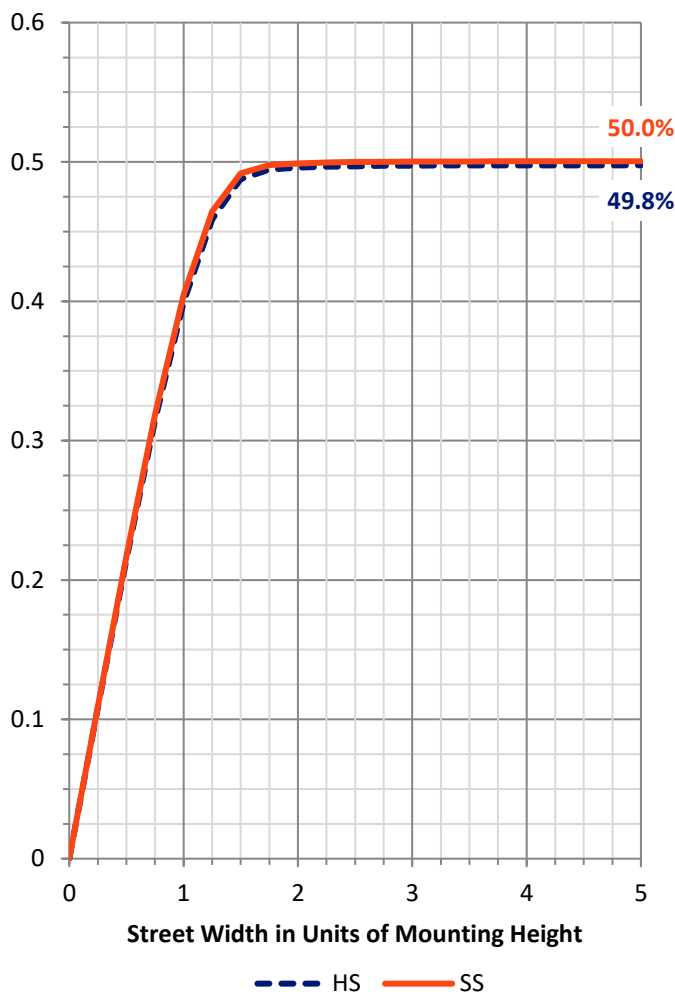
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1950.6	0.0	1950.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1950.7	0.0	1950.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3901.4	0.0	3901.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.4
10°-20°	188.1	4.8
20°-30°	380.5	9.8
30°-40°	705.9	18.1
40°-50°	1171.7	30.0
50°-60°	1195.8	30.7
60°-70°	196.1	5.0
70°-80°	8.6	0.2
80°-90°	0.1	0.0
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°	3901.4	100.0
0°-180°	3901.4	100.0

Coefficient of Utilization



REPORT NUMBER: P631041

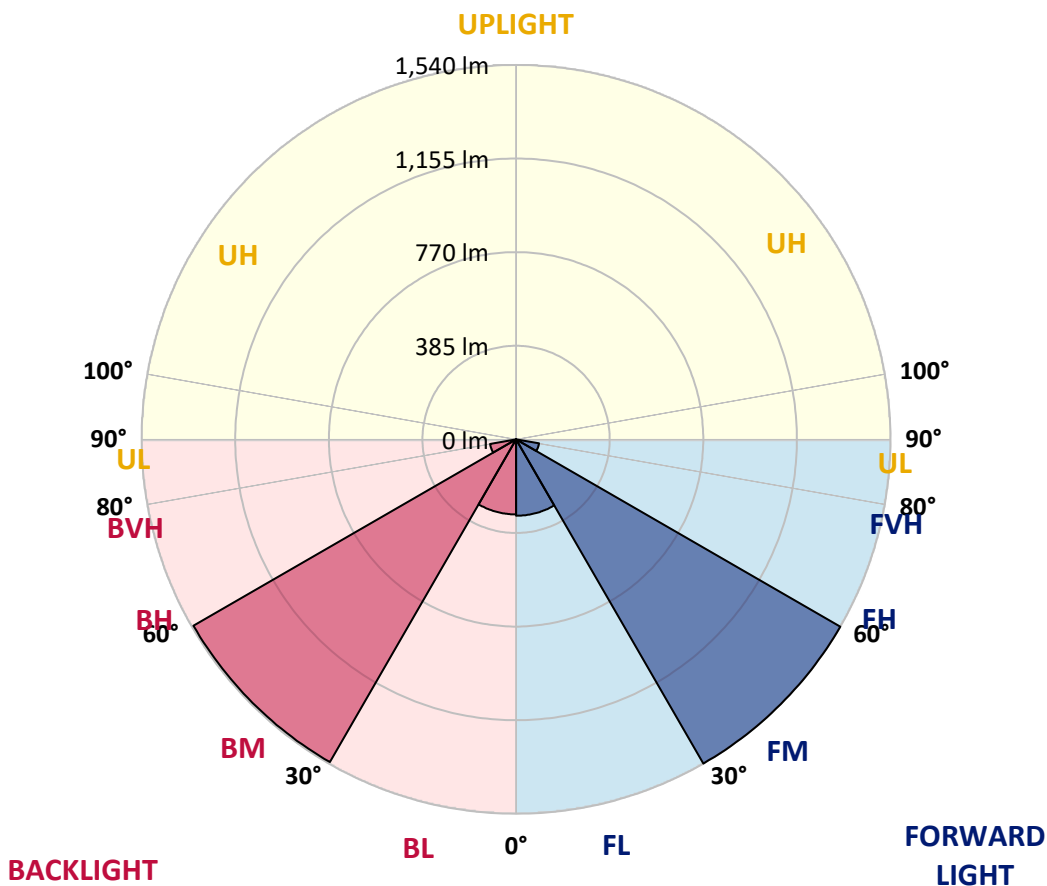
CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.3	8.1			
FM (30°-60°)	1540.5	39.5			
FH (60°-80°)	95.9	2.5			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	308.9	7.9	B1/500		
BM (30°-60°)	1533.0	39.3	B2/2500		
BH (60°-80°)	108.7	2.8	B0/110		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





REPORT NUMBER: P631041
 CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9
2.5°	544.6	545.9	547.6	549.3	551.5	553.6	554.9	558.8	557.9	561.4	561.4
5°	538.5	539.8	542.0	545.9	550.6	555.3	558.8	566.6	570.9	577.8	580.4
7.5°	541.5	543.3	545.9	551.9	559.2	566.6	570.4	583.0	591.6	604.5	611.9
10°	551.5	553.2	557.5	567.9	577.4	587.7	592.5	608.4	622.2	639.9	650.3
12.5°	562.7	564.8	573.5	589.0	605.4	619.2	625.7	643.4	657.6	677.5	693.9
15°	574.3	577.8	591.2	614.0	637.3	655.9	662.8	681.8	696.0	717.2	735.7
17.5°	601.5	605.4	620.5	645.1	677.0	698.6	704.6	724.5	735.3	749.5	768.9
20°	635.6	642.9	661.5	691.3	726.2	746.9	751.2	770.7	769.8	775.8	792.7
22.5°	677.9	683.1	703.3	738.7	778.0	800.9	810.8	819.0	808.2	803.0	813.8
25°	721.9	727.9	750.0	788.8	832.8	859.1	867.3	873.8	856.5	837.1	838.4
27.5°	778.9	783.2	804.8	846.2	890.2	920.0	927.3	938.5	915.6	884.6	876.0
30°	846.6	850.9	873.8	917.4	961.0	986.4	997.6	1011.4	986.4	947.6	937.7
32.5°	926.0	930.3	959.7	1004.5	1040.4	1068.0	1078.8	1093.4	1073.6	1030.0	1018.8
35°	1020.9	1023.5	1058.0	1106.8	1144.8	1171.5	1178.9	1196.1	1174.1	1130.5	1124.5
37.5°	1131.0	1134.0	1171.5	1228.1	1266.9	1296.7	1308.3	1313.1	1286.3	1237.5	1232.8
40°	1251.8	1261.7	1298.4	1359.2	1402.8	1440.4	1450.7	1434.7	1397.2	1330.8	1322.1
42.5°	1377.8	1386.4	1427.4	1493.4	1543.9	1582.3	1582.8	1548.2	1484.4	1392.5	1379.5
45°	1482.6	1486.1	1539.2	1605.6	1667.8	1694.9	1697.5	1635.0	1538.7	1428.3	1400.7
47.5°	1554.7	1560.3	1606.5	1670.3	1739.0	1763.6	1758.4	1680.3	1564.6	1451.6	1405.8
50°	1555.6	1565.1	1615.1	1676.8	1743.3	1773.0	1765.7	1693.2	1579.3	1452.4	1393.3
52.5°	1417.9	1433.5	1515.0	1604.3	1706.2	1757.1	1758.8	1710.0	1573.7	1438.6	1382.1
55°	1069.7	1086.5	1189.2	1341.5	1538.3	1680.3	1704.9	1690.2	1567.2	1444.7	1402.0
57.5°	566.1	553.2	610.1	761.2	1008.4	1259.6	1331.6	1449.0	1495.2	1452.0	1438.6
60°	123.4	131.6	175.2	236.0	393.5	592.5	662.8	863.9	1102.9	1209.1	1285.9
62.5°	53.1	52.2	54.4	61.7	90.2	150.2	183.4	299.5	472.5	649.0	768.5
65°	43.6	44.0	45.7	45.7	42.7	43.2	45.3	68.6	110.5	154.9	208.0
67.5°	32.8	33.2	36.2	37.1	35.0	31.1	30.6	25.9	27.2	34.1	35.4
70°	20.7	20.7	22.4	23.3	23.3	21.6	21.1	18.6	18.1	20.7	23.3
72.5°	11.2	11.2	12.1	12.5	12.1	11.7	11.7	11.2	10.8	12.5	16.0
75°	4.7	4.7	5.2	5.2	4.7	4.7	4.7	4.7	4.7	5.6	8.6
77.5°	0.9	1.3	1.7	1.3	0.9	0.9	0.9	1.3	1.3	1.7	2.6
80°	0.4	0.4	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P631041

CATALOG NUMBER: GWS-SA1E-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9
2.5°	564.4	559.7	561.4	562.2	561.0	560.1	555.3	554.0	551.9	548.4	547.6
5°	583.4	579.5	579.1	576.5	570.4	563.1	554.0	550.2	545.9	541.5	540.7
7.5°	615.3	610.6	607.6	598.9	585.1	573.5	558.4	550.2	544.6	538.9	537.7
10°	656.3	650.7	642.1	626.1	607.6	590.7	573.0	562.2	553.6	545.9	545.4
12.5°	699.9	693.9	678.3	658.0	635.6	620.1	597.6	582.5	569.6	557.9	556.6
15°	745.6	738.3	717.2	693.0	672.3	656.3	631.7	607.6	587.7	570.9	569.2
17.5°	780.6	771.5	746.5	728.4	711.5	695.2	667.5	635.6	609.3	589.0	584.3
20°	802.6	794.0	770.2	760.3	752.5	740.9	708.1	674.9	645.5	620.5	616.2
22.5°	823.7	813.4	792.7	792.7	798.7	794.0	758.6	720.6	686.1	657.2	650.7
25°	847.5	839.3	824.6	836.7	851.8	851.4	815.1	767.6	727.9	695.6	689.1
27.5°	882.0	873.8	868.6	891.5	910.5	909.2	869.5	818.1	776.3	744.3	738.3
30°	942.8	935.1	929.5	957.1	981.2	972.2	928.6	879.0	836.7	800.4	796.1
32.5°	1024.0	1015.8	1008.4	1036.0	1057.6	1046.0	1004.5	957.9	909.2	873.8	865.2
35°	1130.5	1113.3	1105.9	1138.7	1147.8	1134.9	1095.2	1054.2	1002.4	961.8	956.2
37.5°	1240.6	1220.3	1215.1	1243.6	1258.3	1253.5	1206.9	1164.2	1108.1	1063.2	1056.8
40°	1334.6	1316.1	1307.0	1351.5	1384.7	1387.7	1345.9	1293.6	1227.6	1181.0	1169.4
42.5°	1389.9	1373.9	1371.7	1440.8	1495.2	1534.0	1483.9	1430.0	1360.5	1307.9	1298.4
45°	1402.4	1392.0	1410.2	1500.8	1585.3	1656.1	1613.4	1556.4	1481.3	1425.7	1416.6
47.5°	1401.1	1397.6	1430.0	1531.8	1638.8	1726.0	1704.9	1640.6	1568.1	1509.8	1501.2
50°	1382.5	1383.0	1436.9	1547.4	1660.4	1745.0	1723.9	1664.3	1599.6	1542.2	1535.3
52.5°	1375.2	1372.6	1424.0	1542.6	1682.4	1736.4	1688.9	1622.0	1550.0	1479.2	1468.8
55°	1401.1	1394.6	1425.7	1538.7	1685.0	1731.6	1606.5	1461.5	1313.9	1230.2	1223.3
57.5°	1439.9	1433.0	1447.7	1510.3	1550.0	1439.9	1182.3	948.4	796.6	732.3	704.2
60°	1285.9	1281.1	1269.9	1194.4	1024.4	772.8	526.4	335.7	241.2	195.0	195.0
62.5°	797.8	791.4	730.5	542.8	394.4	228.3	125.6	78.5	59.5	55.7	55.2
65°	223.9	222.7	184.3	130.3	82.8	51.3	45.3	46.2	45.3	44.0	43.6
67.5°	33.7	37.1	37.1	30.2	28.9	32.4	38.0	40.6	38.4	36.2	35.4
70°	21.6	23.3	22.4	19.4	20.7	24.2	27.2	27.6	26.3	24.2	23.7
72.5°	15.1	16.8	13.8	12.5	12.9	14.2	15.5	15.5	15.1	14.2	13.4
75°	9.1	9.1	6.5	6.0	6.0	6.5	6.5	7.3	7.3	6.9	6.5
77.5°	3.0	3.5	2.2	1.7	1.7	1.7	2.2	2.6	2.6	2.2	1.7
80°	0.4	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.4
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	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)