

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: P631543

Luminaire Tested: GWS-SA1F-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 3914.5 lumens
Efficiency: N/A
Efficacy: 58.3 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

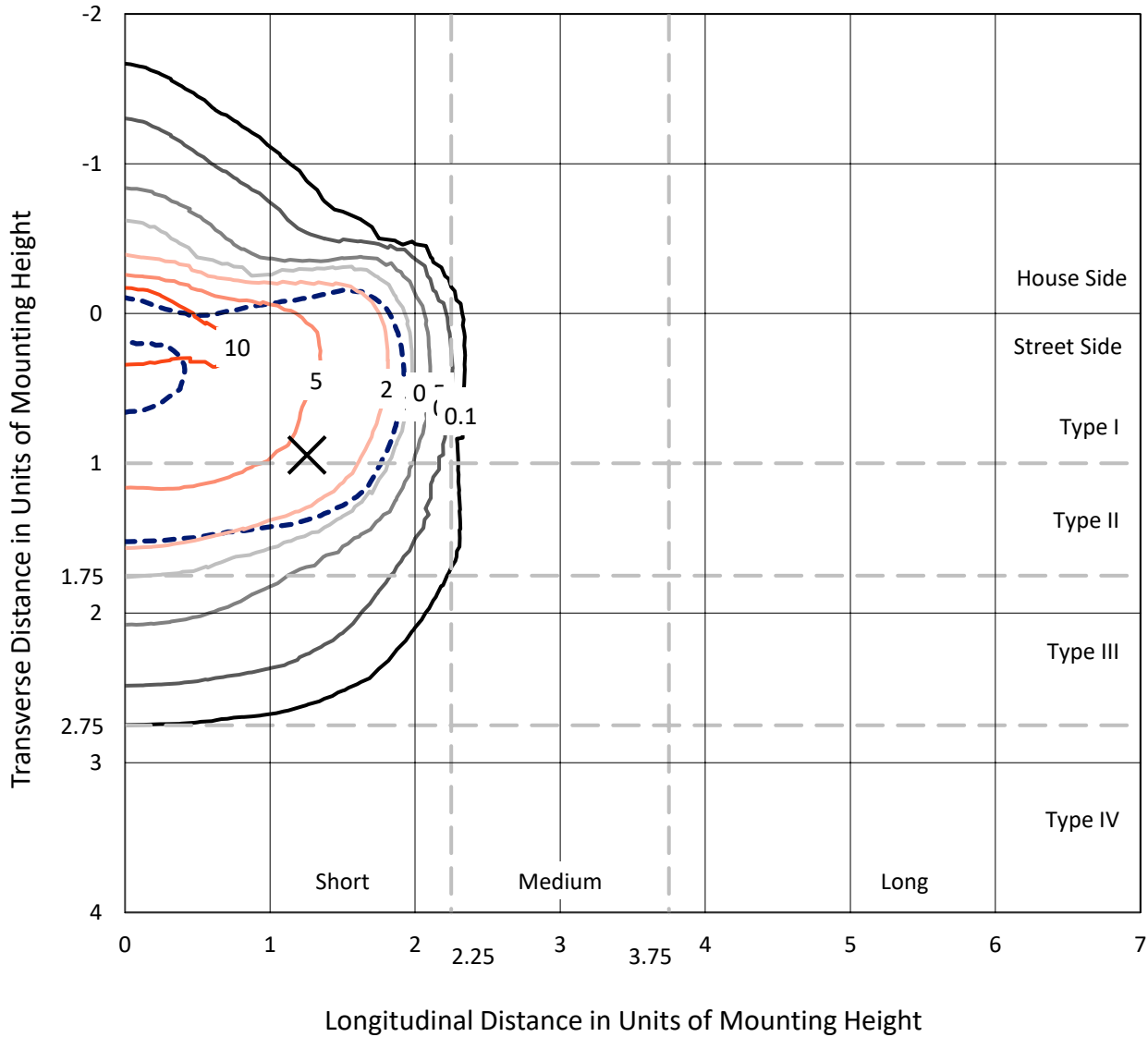
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631543
 CATALOG NUMBER: GWS-SA1F-830-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

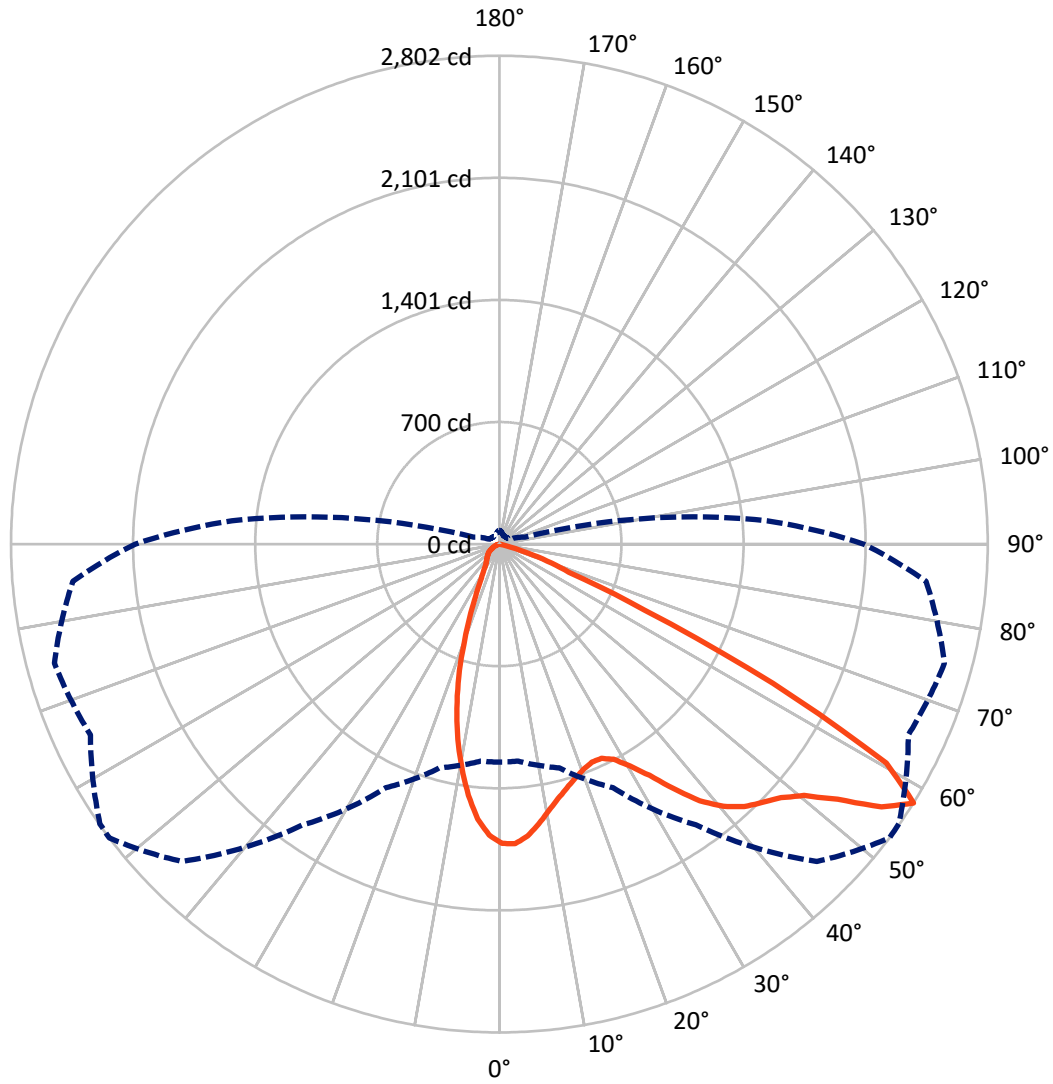
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - N/A

REPORT NUMBER: P631543
CATALOG NUMBER: GWS-SA1F-830-U-SL3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA1F-830-U-SL3-W-GRSBK

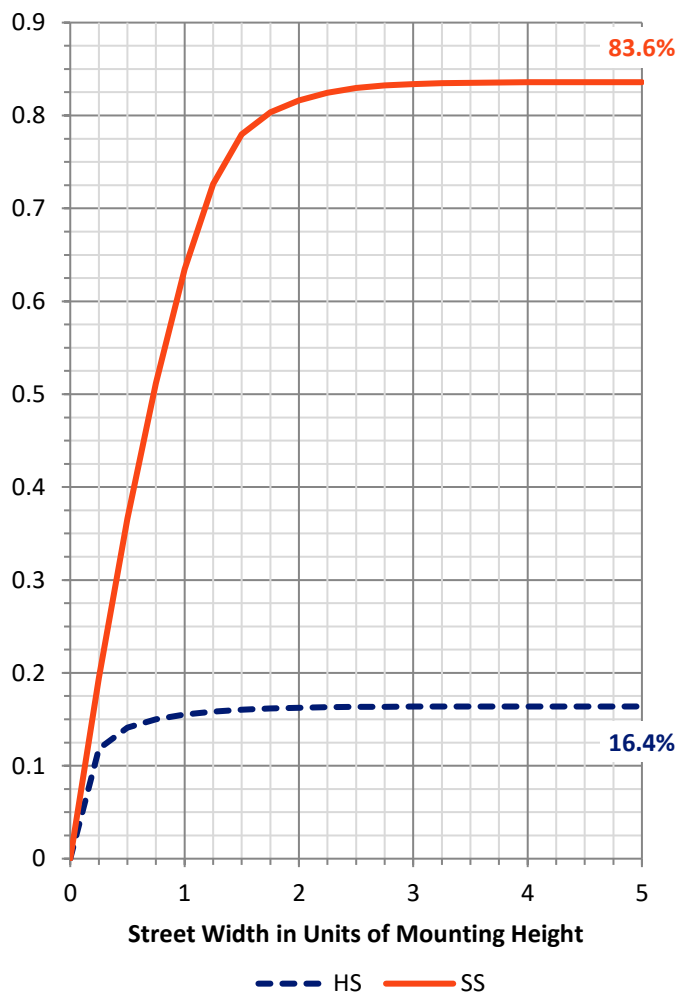
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.6	0.0	646.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3267.9	0.0	3267.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	3914.5	0.0	3914.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.8
10°-20°	322.5	8.2
20°-30°	420.2	10.7
30°-40°	609.5	15.6
40°-50°	879.4	22.5
50°-60°	1063.6	27.2
60°-70°	433.5	11.1
70°-80°	39.0	1.0
80°-90°	0.0	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°	3914.5	100.0
0°-180°	3914.5	100.0

Coefficient of Utilization



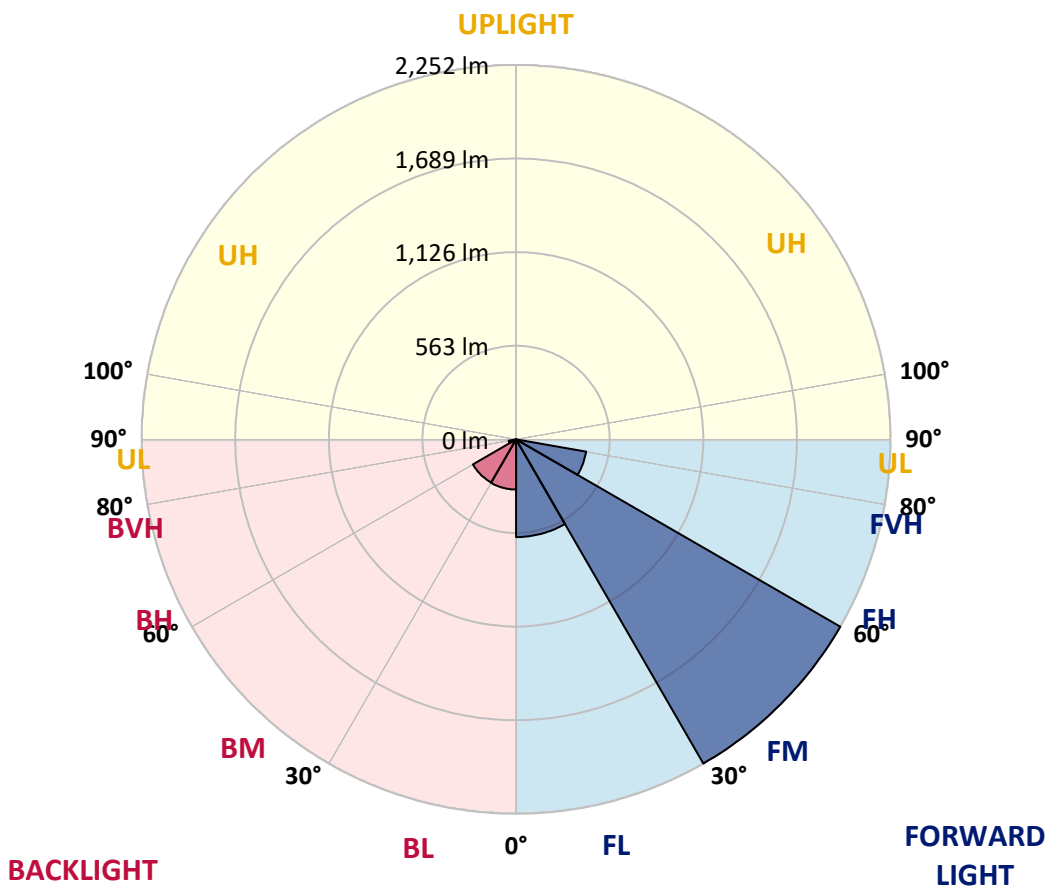
REPORT NUMBER: P631543

CATALOG NUMBER: GWS-SA1F-830-U-SL3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.8	15.0			
FM (30°-60°)	2252.3	57.5			
FH (60°-80°)	427.7	10.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	301.8	7.7	B1/500		
BM (30°-60°)	300.1	7.7	B1/1000		
BH (60°-80°)	44.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	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-G0
 Type II Short





REPORT NUMBER: P631543

CATALOG NUMBER: GWS-SA1F-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1
2.5°	1693.1	1697.0	1703.7	1712.3	1718.1	1721.0	1721.0	1729.1	1723.8	1719.5	1714.7
5°	1620.7	1624.5	1633.6	1647.6	1661.5	1671.5	1683.1	1691.7	1695.1	1695.1	1686.9
7.5°	1518.5	1523.8	1529.5	1548.7	1578.9	1601.5	1621.2	1633.6	1651.9	1657.6	1646.1
10°	1408.6	1413.9	1426.9	1453.2	1487.8	1521.4	1555.0	1570.8	1602.0	1618.3	1605.3
12.5°	1315.5	1317.9	1335.2	1366.9	1411.0	1457.1	1497.9	1514.2	1558.3	1582.8	1567.4
15°	1238.8	1240.2	1257.5	1292.5	1343.4	1400.0	1451.3	1468.1	1522.3	1559.3	1536.2
17.5°	1180.7	1181.2	1196.1	1234.0	1287.2	1350.1	1411.0	1431.7	1501.7	1546.3	1511.8
20°	1151.5	1150.0	1160.6	1193.7	1244.1	1306.9	1378.9	1404.3	1490.2	1544.4	1493.1
22.5°	1151.9	1148.6	1152.9	1176.4	1219.1	1278.1	1358.7	1387.5	1491.1	1552.6	1477.2
25°	1179.3	1174.5	1175.5	1187.9	1218.2	1271.9	1361.6	1392.3	1510.3	1579.9	1471.5
27.5°	1225.4	1220.1	1220.1	1226.3	1242.6	1291.6	1397.6	1432.6	1561.7	1633.2	1483.5
30°	1284.8	1279.6	1277.6	1283.9	1297.3	1342.4	1477.7	1514.2	1649.5	1720.5	1521.9
32.5°	1353.0	1346.7	1350.1	1358.7	1371.7	1434.1	1580.9	1629.3	1759.3	1838.0	1590.9
35°	1424.9	1419.7	1435.0	1453.7	1473.9	1561.2	1723.4	1765.6	1894.2	1984.4	1696.5
37.5°	1493.5	1491.1	1523.3	1562.6	1604.4	1713.8	1868.3	1900.9	2009.8	2143.6	1825.6
40°	1562.2	1561.7	1616.8	1685.9	1752.6	1865.9	1978.1	2005.0	2080.3	2267.4	1949.3
42.5°	1638.9	1638.9	1715.2	1807.3	1896.1	1994.4	2058.7	2070.7	2112.0	2338.9	2042.4
45°	1712.3	1716.6	1804.9	1911.9	2017.0	2094.7	2114.4	2115.3	2124.9	2381.1	2119.7
47.5°	1770.4	1774.2	1879.8	2003.1	2116.3	2171.0	2173.9	2169.6	2159.0	2421.4	2179.1
50°	1817.4	1823.2	1933.5	2064.0	2184.4	2244.4	2266.5	2262.1	2235.3	2464.6	2220.9
52.5°	1840.4	1848.6	1952.2	2094.2	2260.2	2370.1	2431.5	2441.6	2349.5	2488.6	2260.7
55°	1656.2	1668.2	1763.7	1958.0	2302.5	2564.4	2660.8	2658.9	2473.3	2560.1	2357.6
57.5°	1250.8	1249.8	1329.0	1541.5	1966.6	2575.4	2801.9	2798.1	2588.9	2643.1	2456.9
60°	851.6	845.8	867.0	969.6	1375.0	2098.1	2550.0	2601.8	2506.8	2441.6	2086.1
62.5°	701.0	695.7	689.0	660.7	789.7	1306.9	1761.7	1840.4	1828.0	1697.0	1308.4
65°	573.8	578.1	596.8	584.8	549.3	670.2	914.5	961.0	878.5	739.3	457.2
67.5°	423.2	425.1	449.6	512.9	493.7	446.2	430.4	438.0	256.7	118.0	76.3
70°	250.0	251.4	274.0	358.9	400.6	342.6	290.7	286.4	101.7	31.7	34.5
72.5°	141.5	138.7	143.0	170.8	218.3	181.8	149.7	136.3	30.7	17.8	17.8
75°	67.2	65.2	56.1	52.8	48.0	30.7	19.2	16.3	7.7	7.2	7.2
77.5°	0.5	1.4	1.0	1.4	1.4	1.0	0.5	0.5	1.4	1.4	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1
2.5°	1706.1	1691.7	1688.3	1687.4	1673.9	1659.5	1644.7	1638.9	1630.3	1625.0	1629.3
5°	1673.9	1653.3	1635.1	1618.3	1588.5	1555.9	1527.6	1509.4	1492.1	1480.6	1483.5
7.5°	1628.4	1601.5	1559.8	1517.1	1462.4	1413.4	1358.7	1325.1	1294.0	1276.7	1284.8
10°	1579.9	1544.4	1477.7	1405.3	1319.4	1242.6	1164.4	1100.6	1063.7	1028.6	1032.5
12.5°	1532.4	1485.4	1385.6	1275.7	1167.3	1054.1	936.0	847.8	787.3	743.7	736.9
15°	1488.3	1427.8	1295.9	1151.0	1003.2	852.6	701.9	575.7	505.7	462.5	459.6
17.5°	1448.9	1374.1	1202.8	1020.5	835.3	642.4	469.2	374.7	334.4	315.7	313.8
20°	1411.0	1319.9	1107.8	888.1	652.0	451.0	323.8	280.2	267.2	259.6	260.5
22.5°	1374.6	1260.9	1008.0	741.3	488.9	316.7	250.9	234.1	232.7	233.7	234.1
25°	1343.9	1206.6	905.3	599.7	348.8	241.3	209.7	204.9	209.2	215.4	216.4
27.5°	1328.0	1162.5	805.1	457.2	252.4	196.2	181.8	183.8	191.4	198.1	199.1
30°	1332.3	1129.4	701.4	331.5	194.3	165.5	160.7	164.6	172.2	178.5	179.4
32.5°	1363.0	1112.6	595.4	241.3	159.8	144.4	142.5	145.4	152.1	156.9	157.4
35°	1424.0	1116.4	494.7	184.7	137.2	128.6	128.1	130.0	133.4	136.7	137.2
37.5°	1513.7	1147.6	395.3	153.5	124.3	118.0	116.1	116.1	118.5	119.9	120.9
40°	1610.1	1194.6	316.7	135.8	115.1	108.4	104.6	103.2	105.1	107.0	107.5
42.5°	1689.8	1241.7	257.2	123.3	107.9	98.8	94.0	93.1	95.5	98.8	99.8
45°	1750.7	1278.1	214.5	113.2	99.8	89.7	84.4	84.4	88.8	94.5	95.5
47.5°	1806.4	1307.4	182.8	104.1	92.1	81.6	76.3	77.2	84.4	92.1	93.6
50°	1844.3	1330.9	159.3	96.0	85.9	74.8	70.0	72.0	80.6	89.7	91.2
52.5°	1885.0	1359.7	143.9	88.8	80.1	69.6	65.2	66.7	76.3	86.4	88.3
55°	1997.8	1456.1	143.5	79.2	70.0	62.4	60.5	60.9	70.5	82.0	84.4
57.5°	2089.9	1541.0	153.0	66.7	58.5	54.7	53.7	54.2	62.9	75.8	78.7
60°	1729.1	1197.5	126.7	55.2	48.9	48.0	46.5	47.5	55.7	67.2	69.6
62.5°	1023.4	684.6	60.5	42.2	41.7	40.8	39.3	41.3	48.9	59.0	60.5
65°	349.8	202.9	38.4	34.5	35.5	34.1	32.6	34.5	41.3	47.0	47.5
67.5°	67.2	53.7	30.7	28.8	29.3	26.4	25.9	27.8	31.7	32.6	32.1
70°	35.0	31.2	23.5	23.5	22.5	18.7	18.7	20.6	20.6	19.2	18.7
72.5°	18.2	17.3	15.4	17.3	14.4	11.5	11.5	12.5	11.5	9.6	9.6
75°	7.2	7.2	6.7	8.6	6.2	5.3	4.8	5.8	4.3	3.4	3.4
77.5°	1.9	1.9	1.9	2.4	1.4	1.4	1.0	1.0	0.5	0.0	0.0
80°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)