

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: P630079

Luminaire Tested: GWS-SA1C-830-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-830-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.4 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

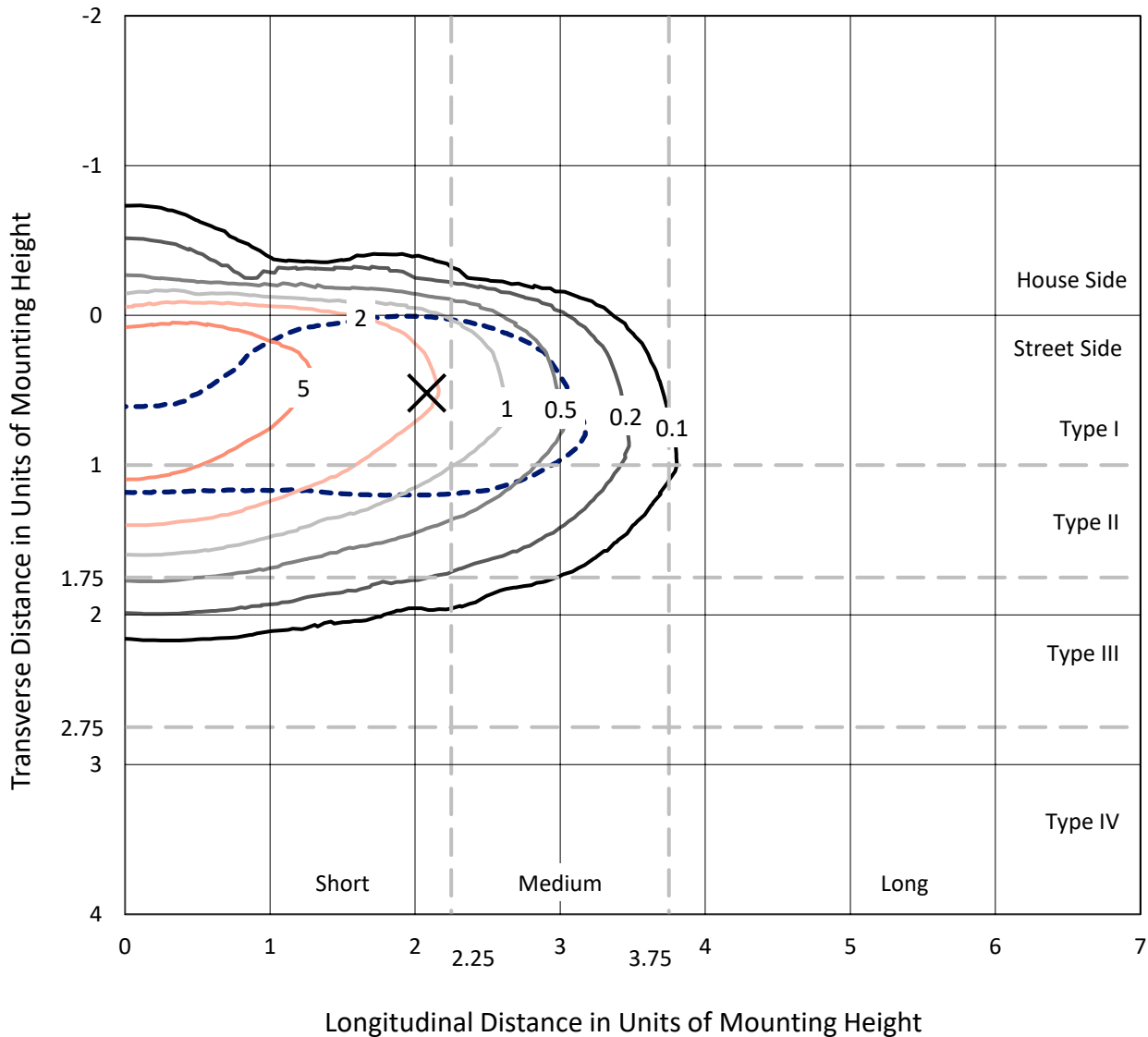
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630079
 CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

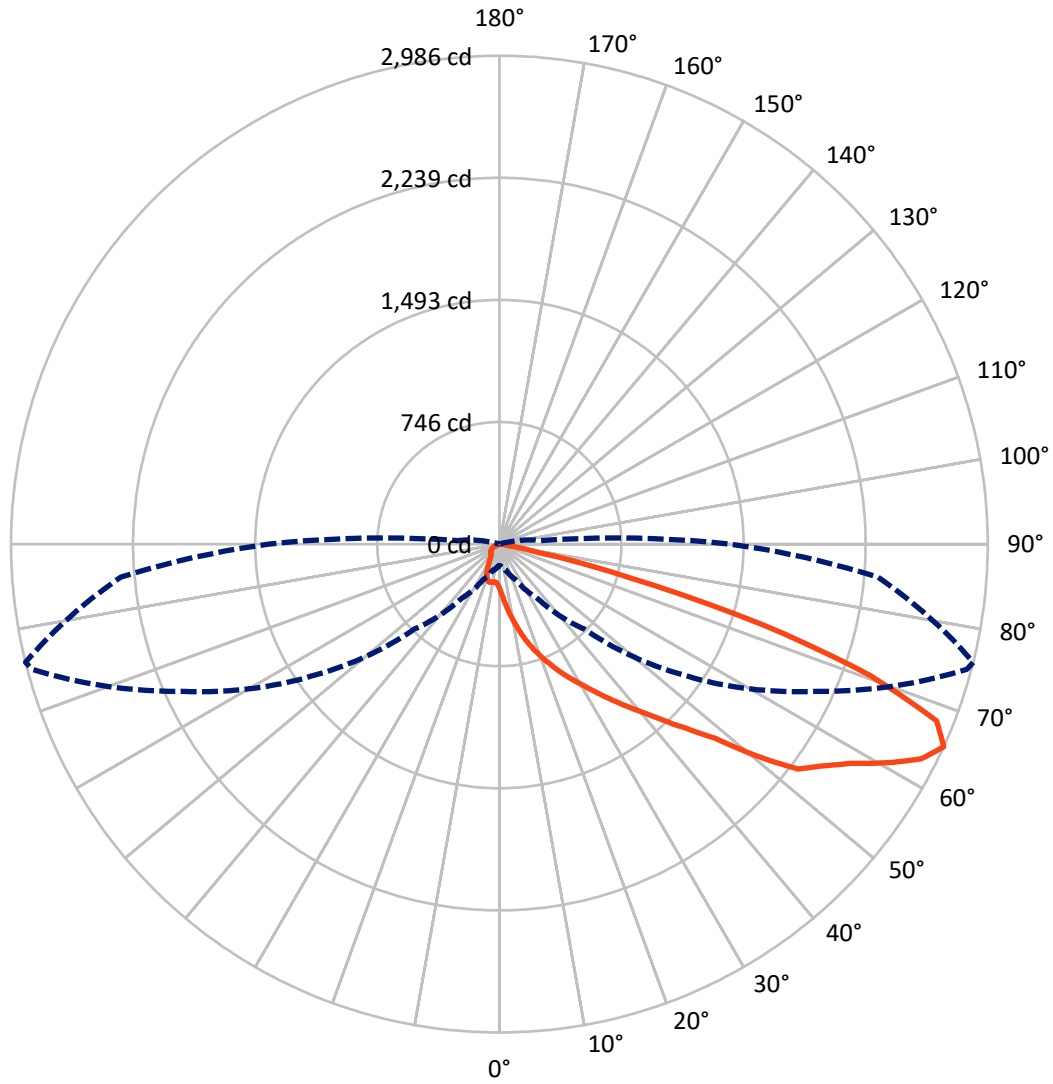
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

REPORT NUMBER: P630079
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-HSS

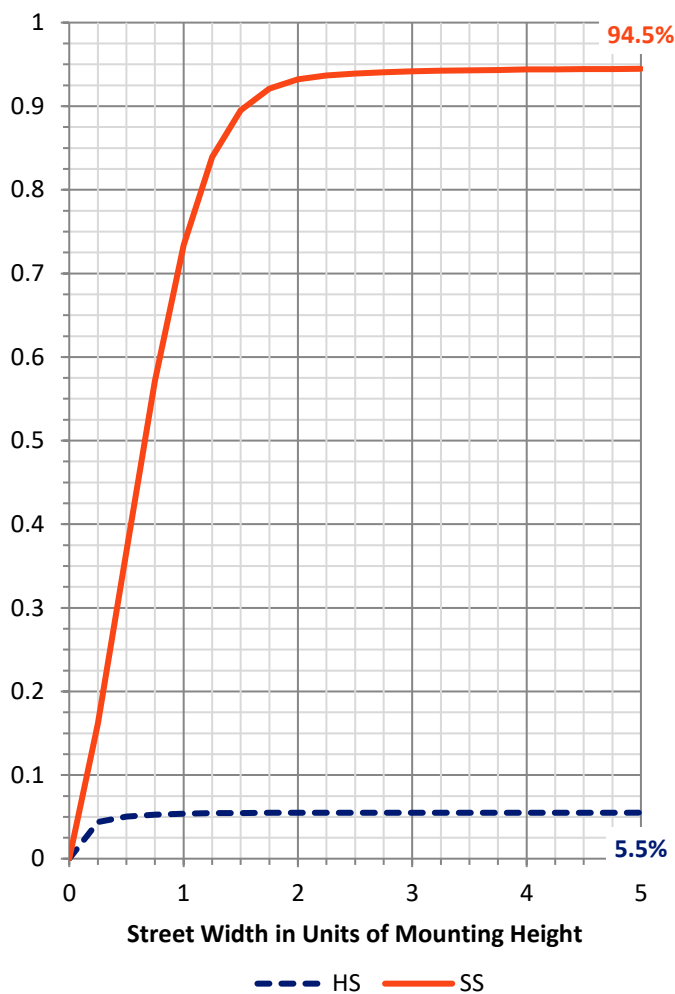
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	170.3	0.0	170.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	2909.1	0.0	2909.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	3079.4	0.0	3079.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.1
10°-20°	125.9	4.1
20°-30°	256.8	8.3
30°-40°	456.7	14.8
40°-50°	675.1	21.9
50°-60°	772.9	25.1
60°-70°	589.7	19.1
70°-80°	165.2	5.4
80°-90°	4.2	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°	3079.4	100.0
0°-180°	3079.4	100.0

Coefficient of Utilization

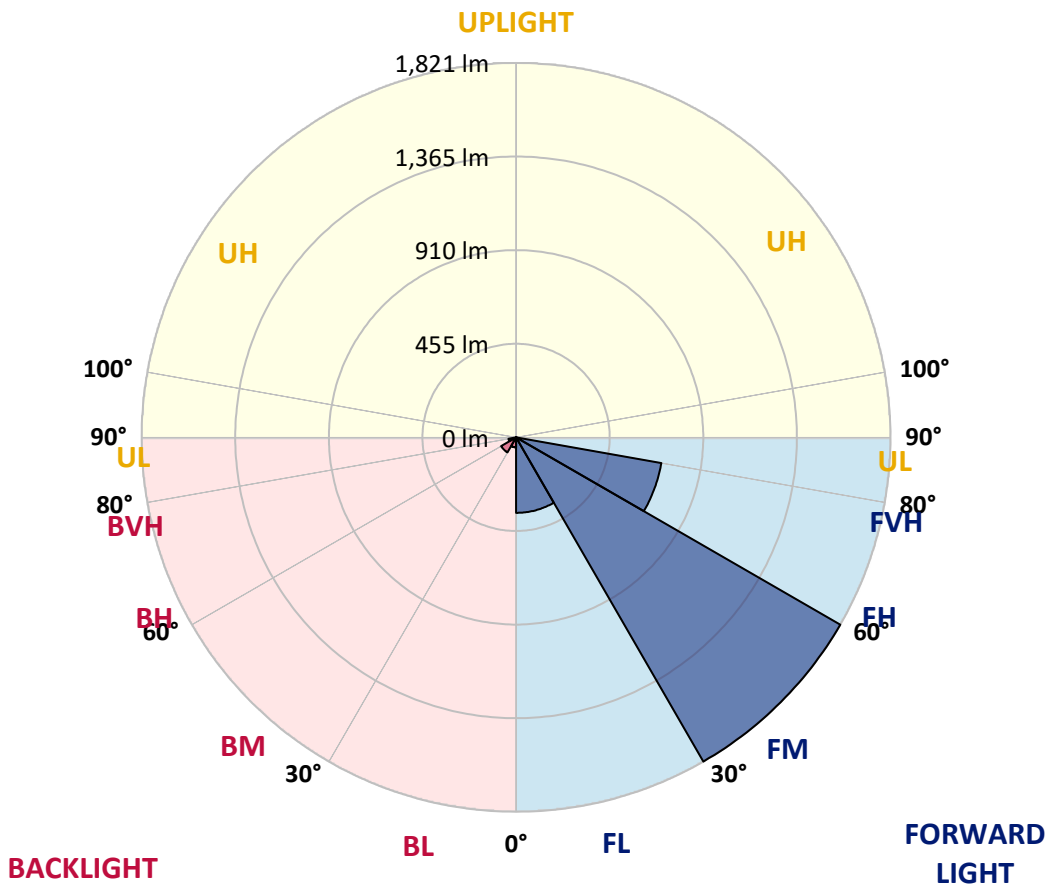


REPORT NUMBER: P630079
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.2	11.9			
FM (30°-60°)	1820.6	59.1			
FH (60°-80°)	717.4	23.3			G1/1800
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	48.6	1.6	B0/110		
BM (30°-60°)	84.0	2.7	B0/220		
BH (60°-80°)	37.4	1.2	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: B0-U0-G1
 Type II Short





REPORT NUMBER: P630079

CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6
2.5°	420.2	426.5	421.6	413.3	397.5	382.1	362.4	335.3	313.7	311.0	290.7
5°	567.5	566.9	556.2	545.6	528.9	502.6	462.9	412.5	364.1	360.0	314.5
7.5°	655.0	655.9	649.8	641.6	625.2	598.1	556.8	496.0	425.1	416.9	347.1
10°	728.7	728.4	724.0	720.2	705.4	687.3	643.0	576.2	490.8	477.9	383.5
12.5°	784.0	785.9	788.1	791.9	785.6	767.8	725.9	653.1	557.3	543.1	425.1
15°	827.8	828.3	836.5	851.3	856.5	847.2	809.2	727.6	623.0	610.7	473.0
17.5°	840.9	842.0	856.0	883.1	910.4	915.6	886.9	802.6	687.6	674.5	519.5
20°	868.6	871.0	881.4	905.2	939.7	967.7	956.4	878.4	752.2	735.0	567.2
22.5°	955.6	957.0	953.4	956.4	974.2	1006.5	1013.4	951.8	818.5	800.1	618.6
25°	1105.3	1105.9	1081.0	1057.4	1044.0	1050.0	1065.1	1019.4	884.2	866.1	666.5
27.5°	1260.8	1262.7	1232.9	1192.9	1145.0	1117.7	1113.3	1081.2	950.4	930.4	713.9
30°	1407.3	1407.3	1375.8	1327.1	1263.0	1209.6	1178.2	1143.7	1021.3	999.4	762.3
32.5°	1538.9	1537.8	1497.6	1444.8	1381.5	1323.0	1256.7	1208.8	1100.1	1075.8	818.2
35°	1647.6	1644.9	1599.2	1548.5	1480.9	1437.4	1363.5	1278.9	1185.5	1161.2	875.7
37.5°	1729.7	1726.7	1684.8	1631.2	1568.5	1540.3	1478.4	1362.9	1275.6	1253.4	939.5
40°	1774.3	1768.3	1739.3	1699.3	1646.8	1622.1	1596.4	1467.2	1381.5	1353.9	1014.7
42.5°	1787.5	1780.4	1761.2	1742.6	1710.8	1691.4	1719.1	1584.9	1497.9	1474.1	1100.7
45°	1748.6	1744.5	1742.9	1756.3	1762.0	1767.5	1835.7	1715.2	1626.3	1608.2	1208.8
47.5°	1655.0	1653.9	1668.4	1724.3	1785.0	1842.8	1962.4	1875.9	1792.7	1773.2	1359.9
50°	1482.0	1493.2	1533.7	1631.7	1753.3	1885.5	2080.9	2098.7	2062.0	2033.6	1557.0
52.5°	1211.5	1233.2	1324.1	1473.0	1647.6	1873.4	2135.7	2277.2	2314.7	2285.1	1698.2
55°	950.7	970.9	1052.0	1240.8	1473.8	1781.7	2138.1	2338.8	2420.6	2393.3	1793.8
57.5°	708.2	726.8	800.4	981.1	1237.3	1601.3	2079.6	2373.0	2546.3	2528.8	1944.6
60°	462.9	481.2	547.7	705.7	959.7	1338.6	1935.3	2365.9	2717.4	2715.7	2129.9
62.5°	256.8	271.3	319.4	442.6	669.8	1036.6	1708.6	2294.4	2883.0	2893.4	2282.7
65°	131.4	140.7	170.0	243.3	405.4	735.0	1410.6	2130.7	2959.6	2985.9	2322.9
67.5°	86.0	89.0	96.1	126.5	217.1	462.3	1061.5	1868.2	2851.8	2882.4	2188.0
70°	69.8	72.3	76.4	84.3	112.0	245.5	697.2	1492.1	2382.9	2403.7	1742.3
72.5°	51.2	54.5	62.4	67.6	80.8	134.7	362.7	979.4	1636.4	1673.1	1094.9
75°	37.8	39.7	46.3	53.4	66.0	85.1	138.8	514.9	845.0	823.7	459.9
77.5°	22.7	24.1	29.6	34.2	47.1	53.1	48.5	190.2	257.0	241.7	111.1
80°	11.2	12.6	19.4	25.7	30.1	21.4	20.3	53.1	57.2	57.2	27.9
82.5°	3.8	4.9	10.4	17.0	14.8	8.2	9.6	13.7	15.3	16.2	8.2
85°	0.0	0.0	2.5	4.9	2.2	1.1	2.5	3.0	3.8	4.1	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.1	1.1
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°	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6
2.5°	279.8	266.9	247.5	229.9	216.5	203.9	194.4	186.7	185.3	180.9	181.5
5°	292.3	269.1	233.2	205.6	186.1	173.0	162.1	153.8	150.3	146.7	144.0
7.5°	311.8	278.1	227.7	194.1	171.4	151.1	134.1	120.4	113.9	109.8	107.0
10°	335.6	290.7	228.0	187.2	153.6	122.6	99.4	84.3	77.2	75.0	74.7
12.5°	364.1	306.6	230.2	176.0	127.8	91.2	73.6	66.8	64.6	62.7	62.7
15°	394.2	324.4	230.2	155.5	97.4	71.2	63.8	59.4	56.7	55.6	55.0
17.5°	425.9	341.1	224.7	127.3	74.7	62.7	56.7	52.6	50.4	48.7	48.2
20°	459.9	356.9	211.0	97.4	64.1	56.1	50.4	46.3	44.1	42.4	42.4
22.5°	494.4	371.7	188.9	75.0	56.7	49.8	44.3	40.5	38.3	36.7	36.7
25°	526.4	381.6	160.4	61.9	51.2	44.3	39.4	35.6	33.1	32.0	31.5
27.5°	556.2	387.9	128.9	54.5	46.0	39.7	34.5	30.9	29.0	28.2	27.6
30°	587.2	389.5	98.5	49.5	41.6	35.0	30.1	27.4	25.7	24.6	24.6
32.5°	617.3	387.6	75.3	45.4	37.8	30.9	26.8	24.4	23.0	22.2	21.9
35°	647.9	378.8	61.0	41.9	33.9	27.1	23.8	21.9	21.1	20.0	20.0
37.5°	681.3	367.1	53.1	38.3	30.1	24.4	21.4	20.0	18.9	18.1	17.8
40°	722.9	353.4	48.7	35.3	26.6	21.9	19.2	17.8	17.0	16.2	15.9
42.5°	772.2	340.0	46.5	32.0	23.8	19.4	17.2	15.6	14.8	13.7	13.4
45°	842.0	337.0	44.1	28.5	21.4	17.5	15.1	13.4	12.3	11.5	11.2
47.5°	954.2	345.5	40.0	24.6	18.9	15.3	12.9	11.5	10.1	9.3	8.8
50°	1065.6	343.3	35.9	21.4	16.7	13.1	10.9	9.6	8.2	7.4	7.1
52.5°	1126.4	332.9	32.0	18.9	14.5	11.2	9.3	7.7	6.8	6.0	5.7
55°	1181.4	328.8	28.2	16.4	12.3	9.9	7.7	6.3	5.7	4.9	4.7
57.5°	1289.3	338.3	24.9	14.2	10.7	8.5	6.6	5.2	4.7	3.8	3.6
60°	1402.1	339.4	21.4	12.3	9.3	7.1	5.2	4.1	3.6	2.7	2.5
62.5°	1460.9	311.8	17.5	10.4	7.7	6.0	4.4	3.3	2.7	1.6	1.6
65°	1411.6	252.1	14.8	8.5	6.0	4.7	3.3	2.5	1.6	0.8	0.3
67.5°	1249.3	179.3	12.3	6.8	4.4	3.3	2.5	1.6	0.3	0.0	0.0
70°	914.8	102.4	9.6	4.9	3.3	2.2	1.6	0.8	0.0	0.0	0.0
72.5°	562.2	54.7	7.1	3.3	2.5	1.6	1.4	0.5	0.0	0.0	0.0
75°	213.2	26.3	4.4	2.2	1.9	1.4	0.8	0.3	0.0	0.0	0.0
77.5°	57.8	12.9	2.5	1.6	1.4	0.8	0.5	0.0	0.0	0.0	0.0
80°	15.1	6.0	1.6	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	2.7	0.8	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0
85°	2.2	1.1	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.3	0.3	0.3	0.3	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)