

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209403

Luminaire Tested: UPW-SA2-110-827-U-T2

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-T2
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10648 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

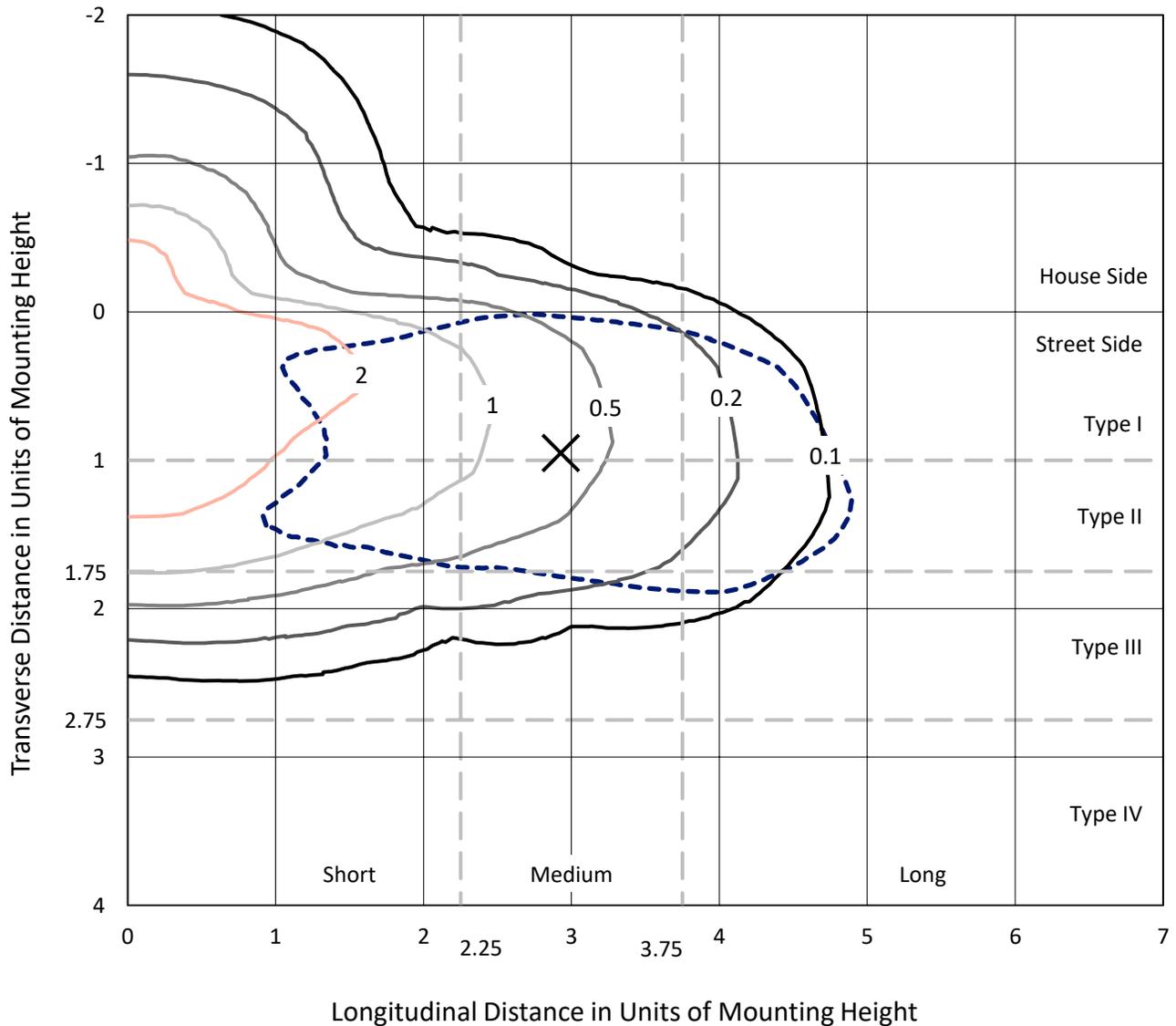
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209403
 CATALOG NUMBER: UPW-SA2-110-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

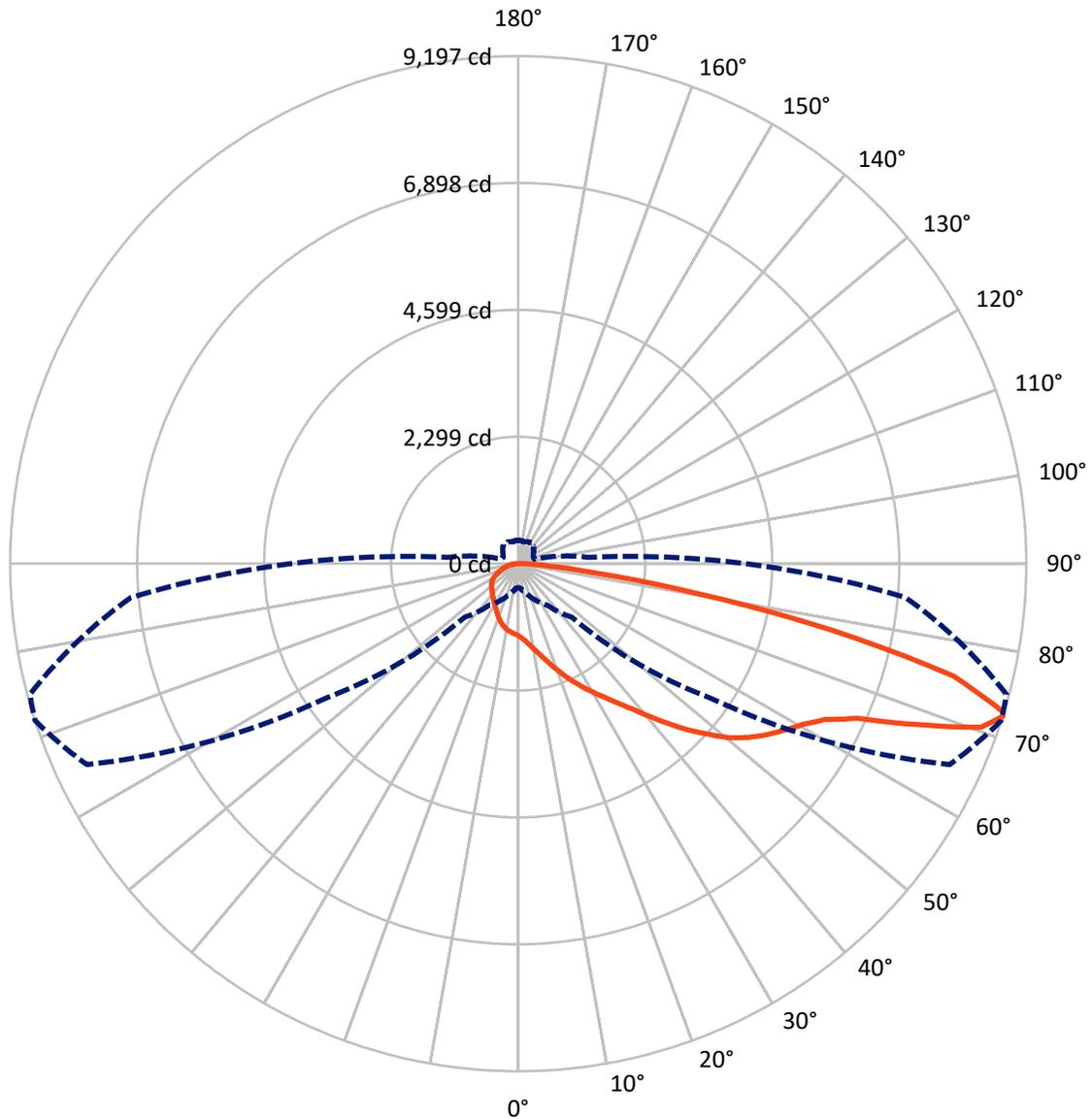
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P1209403
CATALOG NUMBER: UPW-SA2-110-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P1209403

CATALOG NUMBER: UPW-SA2-110-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1975.3	0.0	1975.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8672.7	0.0	8672.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	10648.0	0.0	10648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.2
10°-20°	424.2	4.0
20°-30°	743.3	7.0
30°-40°	1102.1	10.4
40°-50°	1611.9	15.1
50°-60°	2217.9	20.8
60°-70°	2469.2	23.2
70°-80°	1673.1	15.7
80°-90°	275.0	2.6
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°	10648.0	100.0
0°-180°	10648.0	100.0



REPORT NUMBER: P1209403

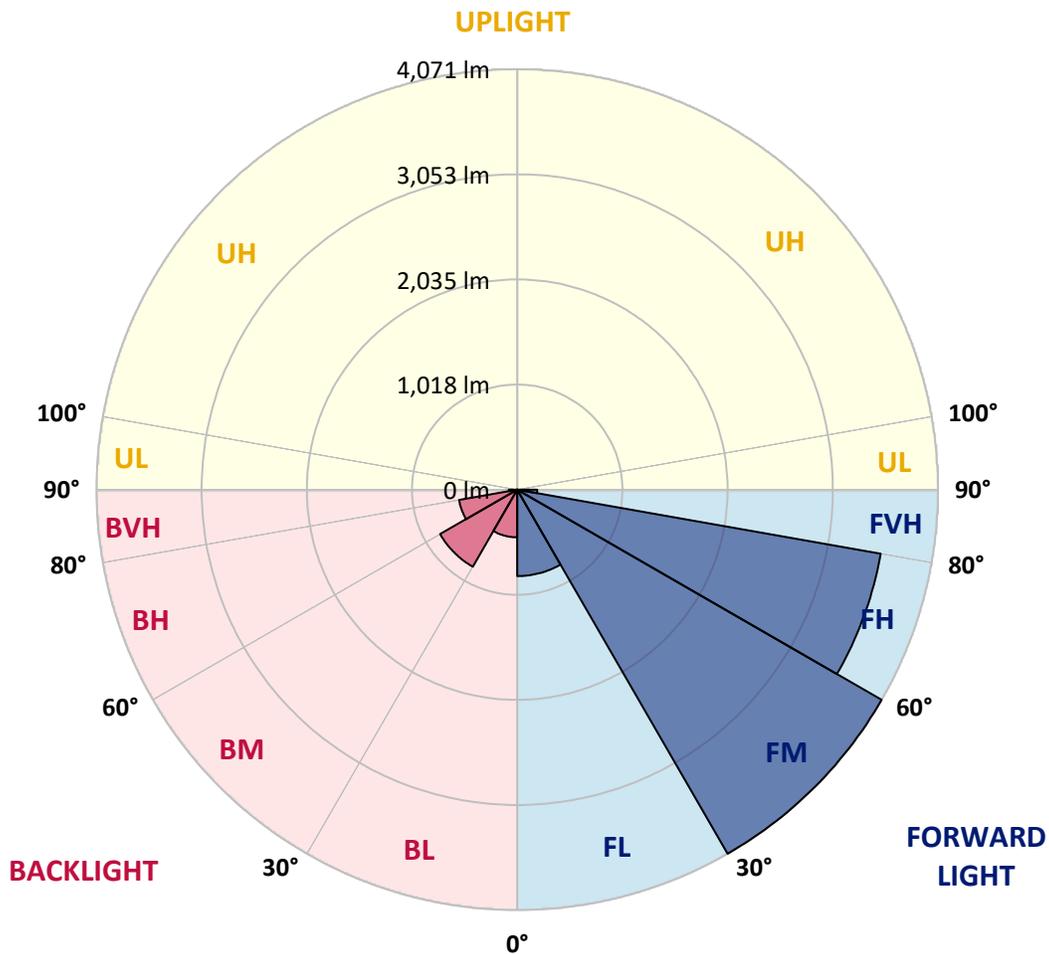
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.0	7.9			
FM (30°-60°)	4070.9	38.2			
FH (60°-80°)	3570.9	33.5			G2/5000
FVH (80°-90°)	194.0	1.8			G2/225
BL (0°-30°)	461.7	4.3	B1/500		
BM (30°-60°)	861.0	8.1	B1/1000		
BH (60°-80°)	571.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	81.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





REPORT NUMBER: P1209403

CATALOG NUMBER: UPW-SA2-110-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1447.1	1444.9	1437.2	1437.2	1422.5	1410.1	1386.6	1370.8	1352.1	1345.5	1323.5
5°	1587.2	1587.9	1578.4	1571.8	1550.1	1523.7	1483.8	1447.5	1411.2	1396.5	1351.4
7.5°	1704.8	1703.4	1700.8	1695.3	1675.1	1648.0	1594.1	1540.2	1486.7	1464.7	1387.0
10°	1780.4	1783.7	1785.9	1788.4	1780.0	1760.6	1709.6	1644.0	1574.0	1543.9	1429.5
12.5°	1818.5	1824.4	1834.6	1852.2	1866.2	1864.0	1826.9	1757.3	1674.0	1636.3	1482.7
15°	1840.9	1848.6	1864.7	1896.2	1935.5	1957.8	1947.9	1884.9	1792.1	1745.5	1547.6
17.5°	1854.8	1861.0	1886.0	1928.1	1986.4	2045.8	2071.8	2019.1	1925.6	1872.4	1622.0
20°	1864.3	1869.1	1900.3	1949.8	2025.3	2119.9	2192.5	2179.3	2072.6	2003.7	1699.7
22.5°	1885.6	1889.6	1919.3	1969.2	2052.8	2174.9	2308.7	2328.5	2227.7	2149.6	1782.9
25°	1945.0	1945.0	1969.9	2004.8	2083.2	2222.5	2406.9	2494.6	2386.1	2295.1	1859.9
27.5°	2058.3	2057.2	2066.3	2078.4	2137.8	2270.9	2494.6	2641.2	2550.3	2450.9	1934.7
30°	2192.5	2199.8	2200.9	2195.0	2222.9	2331.4	2575.6	2795.9	2715.7	2608.6	2011.4
32.5°	2365.2	2369.9	2364.4	2345.0	2341.0	2417.2	2655.2	2958.0	2894.6	2773.2	2081.4
35°	2584.4	2575.2	2558.0	2518.4	2480.6	2532.0	2746.1	3120.1	3095.5	2972.3	2177.8
37.5°	2819.4	2819.8	2798.5	2708.7	2656.6	2678.6	2871.5	3303.7	3338.6	3209.1	2301.4
40°	3007.9	3017.8	3031.0	2912.9	2845.4	2875.9	3031.0	3516.7	3626.0	3490.0	2462.3
42.5°	3139.5	3150.8	3188.2	3114.2	3044.2	3100.6	3218.7	3744.1	3948.6	3814.1	2650.8
45°	3278.8	3285.0	3311.4	3279.5	3234.8	3362.0	3430.2	3979.4	4290.0	4159.5	2861.6
47.5°	3425.5	3432.1	3459.2	3437.9	3414.5	3606.2	3650.9	4201.3	4617.0	4538.9	3086.7
50°	3606.6	3611.0	3636.6	3598.1	3605.5	3790.3	3848.2	4404.7	4959.8	4879.9	3312.5
52.5°	3853.7	3854.8	3890.3	3855.5	3821.1	3925.2	4017.9	4596.5	5228.6	5190.8	3538.4
55°	4047.3	4059.0	4175.6	4168.3	4148.5	4047.6	4159.8	4779.1	5468.3	5486.3	3778.2
57.5°	3923.7	3969.5	4205.7	4372.1	4534.2	4352.3	4351.6	4984.8	5691.3	5776.3	4041.8
60°	3436.5	3498.8	3846.7	4215.9	4723.0	4882.5	4749.7	5235.9	5916.4	6063.8	4372.1
62.5°	2454.2	2556.9	3028.4	3617.9	4464.1	5233.7	5560.0	5634.4	6222.5	6396.7	4801.4
65°	1240.7	1318.4	1713.6	2423.8	3566.6	5004.2	6440.7	6507.0	6754.5	6909.2	5462.5
67.5°	753.8	783.1	976.0	1348.1	2186.6	3898.0	6728.1	7961.4	7784.0	7866.1	6405.1
70°	555.4	577.1	697.3	895.3	1257.6	2287.4	5846.0	8999.4	8882.8	8873.6	7101.7
72°	432.6	448.4	554.7	723.4	919.5	1372.3	4237.2	8616.3	9197.4	9151.2	7037.9
72.5°	410.3	424.2	521.0	680.8	868.9	1244.0	3809.7	8357.8	9174.6	9153.7	6955.4
75°	323.0	332.9	385.7	526.5	680.1	705.8	2087.6	6476.9	8138.9	8477.3	6255.9
77.5°	267.3	268.7	296.6	383.1	530.2	499.0	1025.5	4493.8	5828.0	6200.1	4431.5
80°	217.8	219.6	232.8	268.7	401.1	369.2	486.9	2584.0	3263.0	3267.1	2107.4
82.5°	173.4	173.8	188.4	196.5	288.2	264.0	279.0	1213.2	1425.8	1371.6	757.5
85°	122.1	119.5	184.1	161.3	188.4	169.4	154.0	480.3	589.5	563.9	237.2
87.5°	40.7	42.2	81.8	104.5	110.0	96.1	68.6	184.1	222.5	220.7	75.2
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: P1209403

CATALOG NUMBER: UPW-SA2-110-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1316.6	1304.8	1287.6	1268.6	1253.5	1238.1	1226.8	1220.9	1214.3	1208.8	1215.4
5°	1330.5	1308.5	1271.9	1235.9	1209.5	1186.1	1169.2	1160.4	1152.3	1146.8	1147.6
7.5°	1353.2	1317.7	1256.1	1203.7	1167.0	1141.7	1124.5	1118.6	1113.5	1112.0	1113.8
10°	1377.4	1325.0	1235.2	1165.5	1123.7	1102.8	1095.1	1099.2	1102.8	1106.1	1109.8
12.5°	1404.9	1331.6	1204.8	1120.8	1085.2	1077.2	1084.9	1102.5	1115.3	1123.0	1127.8
15°	1440.9	1337.5	1169.6	1076.1	1052.2	1061.4	1087.4	1117.9	1140.2	1154.5	1156.7
17.5°	1473.9	1337.1	1124.5	1031.0	1025.5	1052.2	1091.5	1134.4	1164.4	1184.6	1188.6
20°	1508.0	1327.2	1072.0	987.0	998.3	1042.3	1093.3	1145.0	1181.3	1204.8	1210.3
22.5°	1539.9	1310.0	1014.5	947.0	975.6	1029.1	1086.3	1138.8	1175.1	1194.1	1200.0
25°	1561.5	1279.9	956.2	913.3	955.4	1013.0	1063.6	1105.8	1132.9	1142.4	1143.9
27.5°	1572.5	1240.7	901.2	884.0	934.5	986.6	1021.4	1042.3	1050.0	1049.3	1047.8
30°	1574.0	1189.0	853.9	860.1	910.4	947.7	964.2	960.2	950.3	933.4	934.9
32.5°	1569.2	1130.7	814.3	837.4	879.6	900.5	901.2	881.8	855.4	828.6	821.3
35°	1570.7	1073.5	779.5	811.7	842.2	851.3	842.9	814.3	778.4	743.9	736.6
37.5°	1586.8	1023.6	749.4	782.0	800.7	802.9	790.8	760.8	734.4	700.6	697.7
40°	1625.3	988.1	720.8	748.7	759.3	760.4	743.2	721.9	724.1	706.1	705.8
42.5°	1694.6	972.7	695.5	713.8	720.4	722.6	709.4	695.9	714.9	703.2	699.2
45°	1784.0	976.3	674.2	679.7	691.8	702.1	694.0	677.5	684.9	633.9	617.0
47.5°	1887.4	999.8	657.4	650.4	671.3	690.7	678.3	653.3	627.3	576.7	567.2
50°	2008.4	1036.1	642.0	621.4	648.9	675.3	662.9	627.3	588.1	563.5	560.2
52.5°	2134.5	1080.5	626.6	589.5	620.7	663.6	657.4	621.4	573.0	548.9	544.5
55°	2277.5	1125.2	607.1	552.5	590.3	658.1	654.8	600.2	561.7	548.1	544.8
57.5°	2455.3	1176.2	581.5	514.0	561.7	638.3	628.0	587.3	550.0	539.7	538.6
60°	2687.1	1251.3	544.5	473.0	526.9	607.9	605.7	568.6	531.3	523.9	522.5
62.5°	3034.6	1375.6	493.5	431.9	488.0	556.2	576.3	543.4	511.5	511.1	511.8
65°	3573.6	1562.6	438.1	396.0	448.8	512.6	542.3	517.3	491.3	498.6	499.7
67.5°	4198.3	1717.7	383.9	360.8	408.8	471.1	511.5	491.3	464.5	483.6	484.0
70°	4406.2	1579.1	336.2	325.9	367.4	431.2	478.1	462.7	435.6	454.6	452.8
72°	4100.4	1274.8	305.4	299.5	336.2	398.2	448.4	435.9	409.2	422.0	417.2
72.5°	4004.0	1215.4	297.7	292.9	327.8	389.7	440.7	429.3	402.6	413.6	409.2
75°	3571.7	1055.5	255.9	257.0	286.0	348.7	397.4	393.8	366.3	367.4	365.9
77.5°	2590.6	774.0	215.6	222.9	243.4	306.5	353.8	351.6	321.5	316.0	314.9
80°	1202.2	394.9	175.6	178.9	200.2	256.3	301.7	298.8	274.6	267.6	263.6
82.5°	411.7	187.7	132.0	134.2	155.1	206.4	261.8	259.9	239.8	226.2	217.8
85°	147.0	93.5	92.4	90.2	110.7	162.4	228.0	218.1	188.4	160.6	159.9
87.5°	47.7	40.0	47.7	47.3	64.5	110.0	165.7	141.2	136.8	113.7	111.5
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)