

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: P1209153

Luminaire Tested: UPW-SA2-090-827-U-SL4

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-827-U-SL4
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8556 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

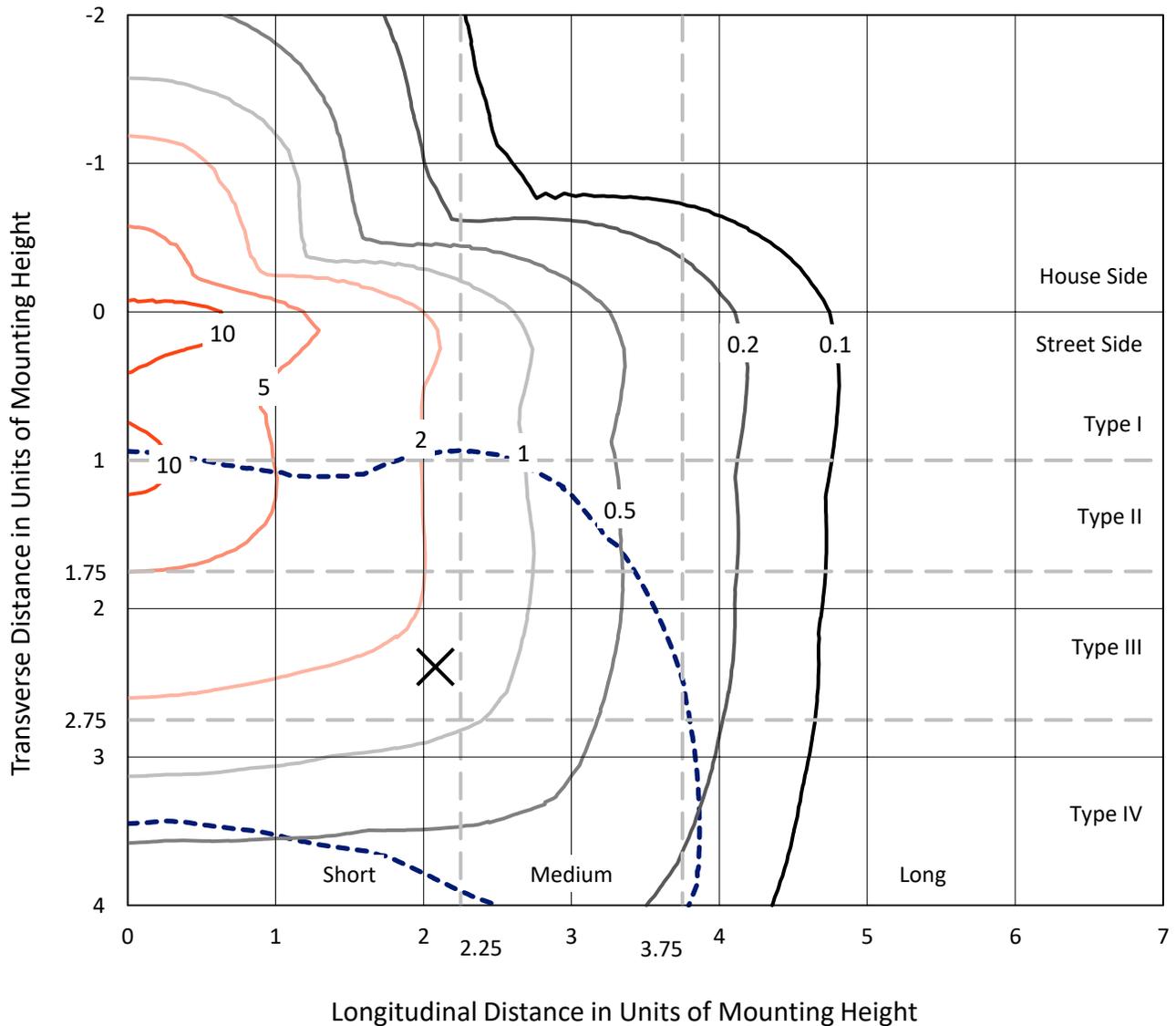


REPORT NUMBER: P1209153

CATALOG NUMBER: UPW-SA2-090-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

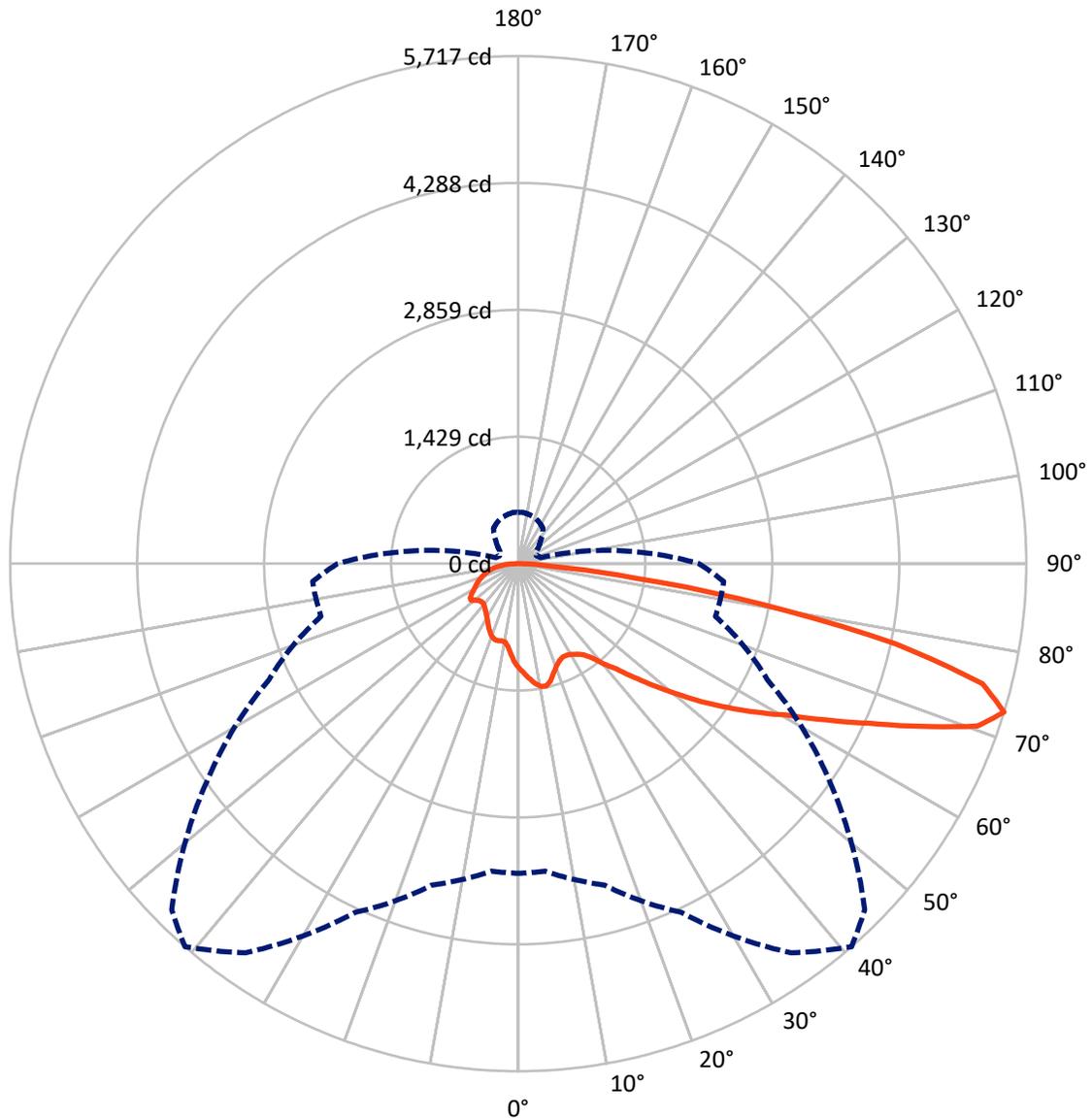


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P1209153

CATALOG NUMBER: UPW-SA2-090-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: UPW-SA2-090-827-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1851.4	0.0	1851.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6704.6	0.0	6704.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	8556.0	0.0	8556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.3
10°-20°	337.9	3.9
20°-30°	519.4	6.1
30°-40°	714.0	8.3
40°-50°	1087.9	12.7
50°-60°	1606.6	18.8
60°-70°	2109.9	24.7
70°-80°	1807.7	21.1
80°-90°	260.5	3.0
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°	8556.0	100.0
0°-180°	8556.0	100.0



REPORT NUMBER: P1209153

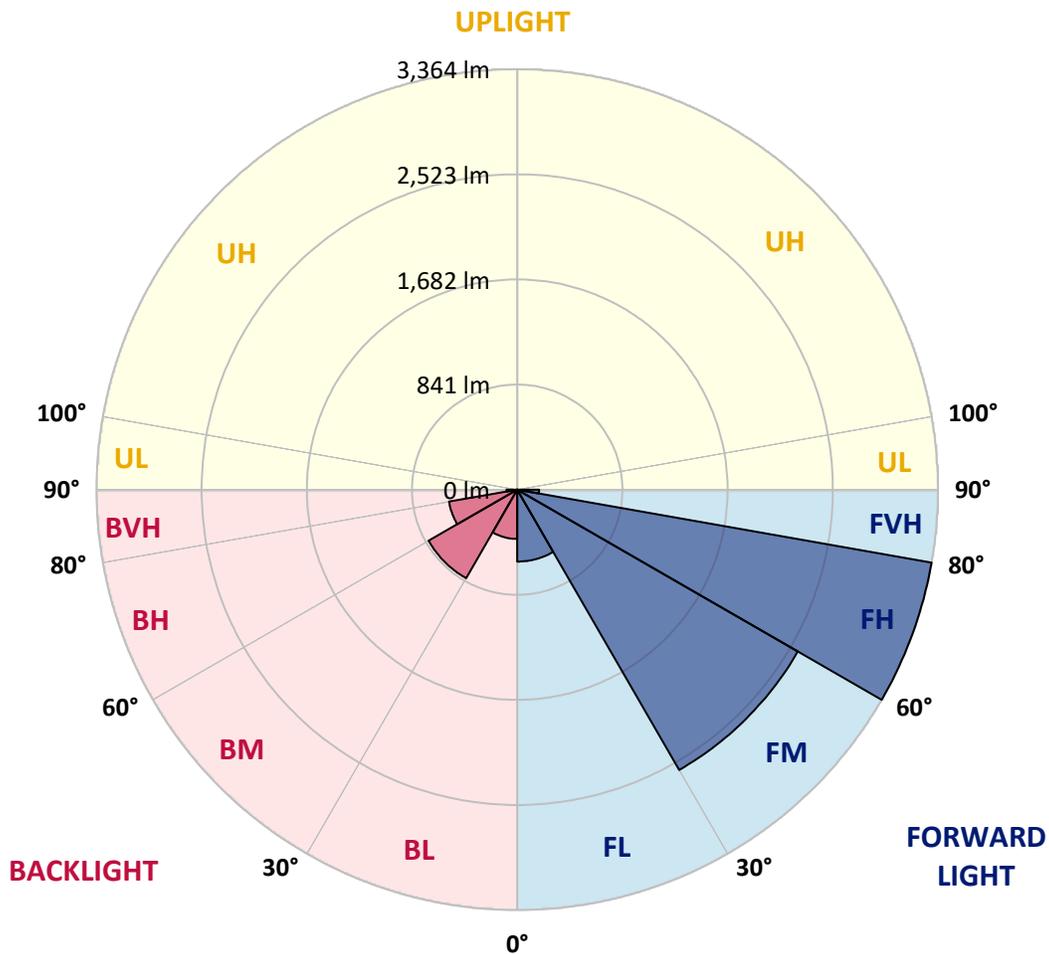
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.4	6.7			
FM	(30°-60°)	2590.2	30.3			
FH	(60°-80°)	3364.0	39.3			G2/5000
FVH	(80°-90°)	174.9	2.0			G2/225
BL	(0°-30°)	394.0	4.6	B1/500		
BM	(30°-60°)	818.3	9.6	B1/1000		
BH	(60°-80°)	553.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	85.5	1.0			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 IV Short





REPORT NUMBER: P1209153

CATALOG NUMBER: UPW-SA2-090-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0
2.5°	1252.2	1248.4	1248.4	1245.6	1240.9	1234.3	1233.4	1224.9	1216.5	1204.2	1192.0
5°	1324.6	1319.0	1317.1	1313.4	1308.7	1299.2	1300.2	1285.1	1267.3	1243.7	1219.3
7.5°	1376.4	1372.6	1371.7	1372.6	1366.0	1361.3	1361.3	1343.5	1325.6	1300.2	1262.6
10°	1394.3	1389.6	1393.3	1401.8	1408.4	1407.4	1412.1	1405.6	1392.4	1370.7	1318.1
12.5°	1362.3	1362.3	1364.2	1375.4	1397.1	1414.0	1429.1	1456.4	1468.6	1449.8	1383.9
15°	1313.4	1310.5	1307.7	1312.4	1338.8	1367.0	1399.0	1472.4	1526.0	1525.0	1453.5
17.5°	1284.2	1282.3	1262.6	1243.7	1257.8	1290.8	1331.2	1448.8	1562.7	1593.7	1523.2
20°	1267.3	1263.5	1240.0	1202.3	1196.7	1230.6	1261.6	1400.9	1568.3	1659.6	1589.0
22.5°	1253.1	1251.3	1221.2	1171.3	1157.2	1185.4	1217.4	1342.5	1547.6	1702.8	1647.3
25°	1259.7	1256.0	1218.3	1159.1	1142.1	1165.7	1193.9	1296.4	1510.9	1727.3	1694.4
27.5°	1291.7	1291.7	1241.9	1171.3	1149.7	1165.7	1187.3	1271.0	1471.4	1733.9	1737.7
30°	1365.1	1362.3	1299.2	1213.6	1178.8	1185.4	1200.5	1262.6	1432.8	1721.7	1765.9
32.5°	1494.0	1484.6	1406.5	1289.8	1222.1	1215.5	1218.3	1256.9	1393.3	1700.0	1793.2
35°	1728.2	1702.8	1583.4	1424.4	1299.2	1258.8	1247.5	1262.6	1369.8	1685.0	1818.6
37.5°	2040.6	2004.8	1857.1	1632.3	1432.8	1346.3	1307.7	1289.8	1366.0	1667.1	1843.0
40°	2337.9	2316.2	2141.3	1878.8	1605.9	1484.6	1421.5	1331.2	1370.7	1655.8	1876.9
42.5°	2717.0	2682.2	2479.0	2137.5	1796.0	1621.0	1529.7	1386.7	1400.9	1663.3	1915.5
45°	3125.3	3118.7	2865.7	2455.5	2033.1	1823.3	1707.6	1491.2	1459.2	1693.4	1972.9
47.5°	3566.6	3536.5	3271.2	2825.2	2302.1	2050.0	1907.0	1611.6	1542.9	1744.2	2049.1
50°	3941.9	3920.3	3647.5	3166.7	2595.7	2298.4	2131.9	1757.4	1647.3	1812.9	2129.0
52.5°	4142.3	4126.3	3958.9	3526.1	2896.7	2579.7	2339.8	1909.8	1778.1	1898.5	2216.5
55°	4094.4	4085.0	4084.0	3797.1	3225.1	2862.9	2576.8	2072.6	1928.6	2001.1	2320.0
57.5°	4081.2	4065.2	4073.7	3984.3	3537.4	3155.4	2840.3	2274.9	2116.8	2124.3	2428.2
60°	4094.4	4085.0	4132.9	4100.0	3830.9	3462.1	3147.0	2520.4	2313.4	2250.4	2525.1
62.5°	4216.7	4194.1	4231.7	4301.3	4150.8	3878.0	3534.6	2813.0	2531.7	2345.4	2600.4
65°	4403.9	4361.5	4373.8	4549.7	4528.1	4331.4	3994.6	3194.0	2736.8	2421.6	2635.2
67.5°	4457.5	4443.4	4475.4	4700.2	4925.1	4891.2	4577.9	3614.6	2937.2	2464.9	2595.7
70°	4236.4	4218.5	4361.5	4708.7	5315.5	5481.1	5190.4	4020.0	3108.4	2448.9	2505.3
72.5°	3487.5	3476.3	3748.1	4333.3	5351.3	5717.2	5514.0	4277.8	3094.3	2297.4	2321.9
75°	2256.0	2218.4	2654.9	3407.6	4801.8	5394.5	5250.6	3953.2	2710.4	2042.5	2000.1
77.5°	797.8	896.6	1146.8	2026.5	3648.4	4341.8	4100.9	2965.4	2002.0	1496.8	1409.3
80°	278.5	292.6	366.0	759.2	1973.8	2781.0	2587.2	1718.8	1069.7	779.9	747.9
82.5°	163.7	171.2	191.9	278.5	726.3	1320.9	1102.6	721.6	391.4	334.9	293.5
85°	55.5	59.3	99.7	143.0	257.8	382.0	343.4	185.3	151.5	135.5	87.5
87.5°	11.3	13.2	21.6	47.0	86.6	97.8	74.3	45.2	63.0	63.0	30.1
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: P1209153

CATALOG NUMBER: UPW-SA2-090-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0
2.5°	1183.5	1175.1	1160.0	1145.9	1130.8	1119.6	1105.4	1094.1	1096.0	1089.4	1087.6
5°	1203.3	1185.4	1149.7	1112.0	1073.5	1036.8	1005.7	980.3	966.2	958.7	957.7
7.5°	1235.3	1208.0	1144.0	1075.3	1002.9	953.0	920.1	904.1	902.2	900.3	897.5
10°	1285.1	1241.9	1142.1	1032.1	940.8	897.5	891.9	903.2	919.2	927.6	927.6
12.5°	1337.8	1282.3	1141.2	987.8	892.8	878.7	904.1	936.1	962.4	974.7	972.8
15°	1394.3	1322.8	1127.1	938.0	858.9	879.6	923.9	958.7	986.0	997.2	998.2
17.5°	1454.5	1359.5	1103.6	883.4	834.5	877.8	922.9	953.0	977.5	986.0	984.1
20°	1506.2	1392.4	1070.6	827.9	812.9	859.9	900.3	922.9	937.0	938.9	938.9
22.5°	1548.6	1415.9	1022.6	776.2	782.7	828.8	859.9	872.1	877.8	880.6	879.6
25°	1590.0	1431.9	968.1	728.2	747.0	787.4	810.0	821.3	825.1	827.9	829.8
27.5°	1618.2	1439.4	904.1	675.5	705.6	740.4	762.0	773.3	781.8	787.4	787.4
30°	1637.9	1434.7	837.3	636.0	669.8	699.0	724.4	739.5	751.7	758.3	759.2
32.5°	1656.7	1429.1	769.6	596.5	634.1	665.1	694.3	716.9	733.8	741.3	744.2
35°	1670.9	1416.8	698.1	566.4	601.2	634.1	667.0	695.3	716.9	730.1	732.9
37.5°	1685.0	1404.6	632.2	534.4	572.9	608.7	646.3	673.6	699.0	716.9	722.5
40°	1704.7	1396.1	573.9	506.1	551.3	590.8	624.7	656.7	685.8	701.8	707.5
42.5°	1732.0	1390.5	524.0	485.5	534.4	579.5	615.3	656.7	692.4	700.0	703.7
45°	1768.7	1390.5	483.6	468.5	525.9	579.5	623.7	668.9	697.1	694.3	697.1
47.5°	1809.2	1390.5	451.6	453.5	522.1	587.1	636.9	691.5	721.6	730.1	735.7
50°	1865.6	1390.5	426.2	440.3	515.6	599.3	681.1	736.6	754.5	757.3	759.2
52.5°	1927.7	1402.7	407.4	427.1	513.7	638.8	715.9	734.8	733.8	725.4	724.4
55°	2002.0	1424.4	390.4	412.1	520.3	646.3	693.4	699.0	681.1	665.1	661.4
57.5°	2077.3	1451.7	373.5	393.3	493.9	600.2	656.7	652.0	651.0	642.6	641.6
60°	2160.1	1482.7	354.7	362.2	441.2	556.0	606.8	643.5	653.9	645.4	643.5
62.5°	2221.2	1518.4	334.9	328.3	396.1	516.5	588.9	635.0	654.8	654.8	653.9
65°	2250.4	1536.3	316.1	297.3	357.5	475.1	572.0	611.5	636.0	642.6	640.7
67.5°	2216.5	1511.9	302.0	271.0	320.8	432.8	544.7	581.4	613.4	623.7	622.8
70°	2158.2	1492.1	290.7	243.7	288.8	387.6	517.4	557.0	588.9	606.8	604.9
72.5°	2031.2	1422.5	262.5	220.1	253.1	351.9	484.5	530.6	560.7	580.5	579.5
75°	1743.3	1250.3	219.2	198.5	214.5	317.0	448.8	500.5	522.1	541.0	540.0
77.5°	1285.1	939.9	172.2	167.5	179.7	280.4	403.6	454.4	471.3	485.5	482.6
80°	677.4	550.4	135.5	137.4	148.6	241.8	358.4	397.0	411.1	418.7	413.0
82.5°	295.4	238.0	100.7	109.1	116.7	193.8	295.4	329.3	338.7	333.0	317.0
85°	94.1	64.9	60.2	71.5	79.0	128.9	229.6	255.9	271.9	255.0	251.2
87.5°	23.5	21.6	25.4	36.7	41.4	71.5	156.2	161.8	183.5	56.4	52.7
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)