

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: P1208998

Luminaire Tested: UPW-SA2-090-727-U-T2

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-727-U-T2  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9786 lumens  
Efficiency: N/A  
Efficacy: 113.8 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): 86  
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

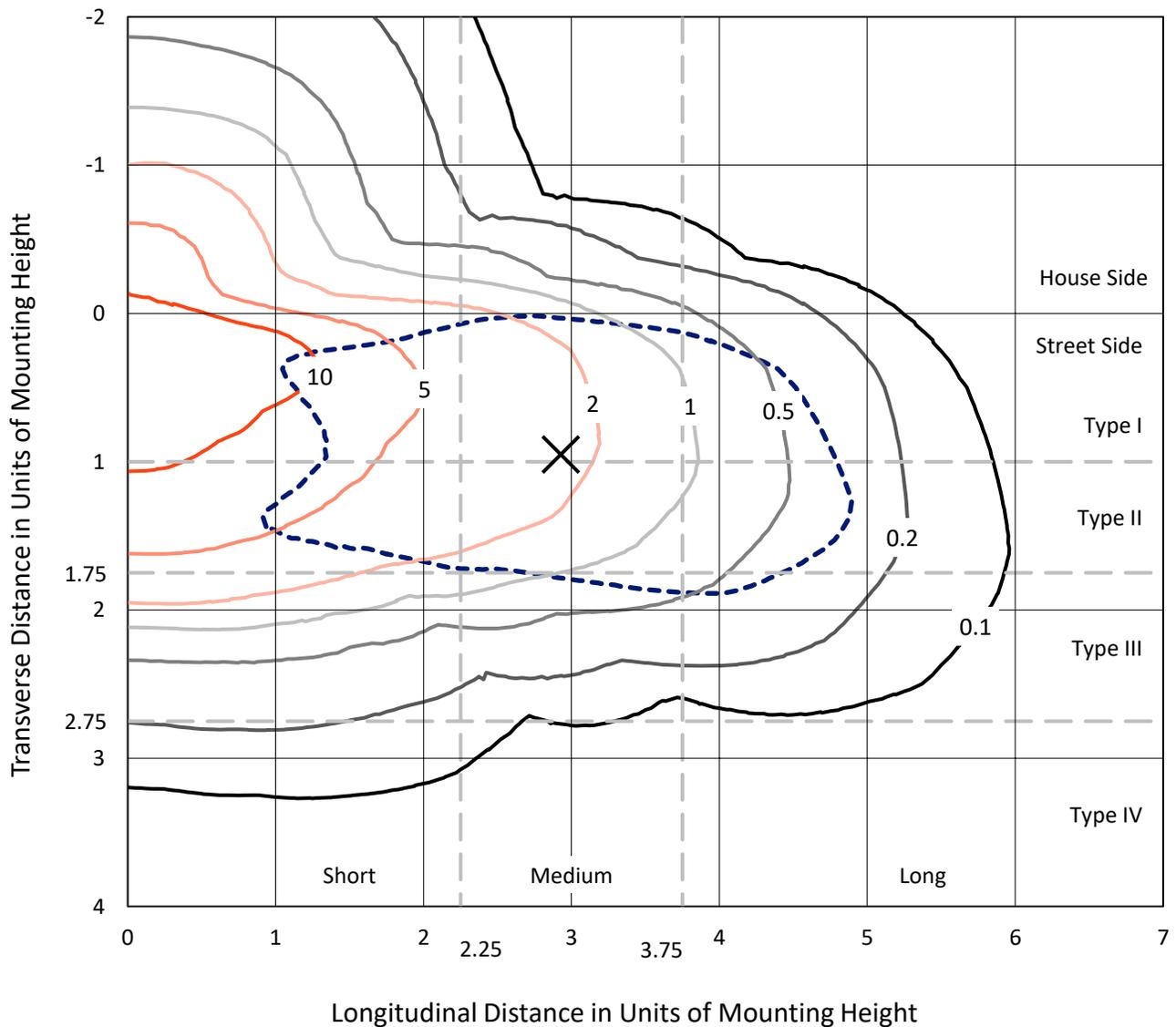


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

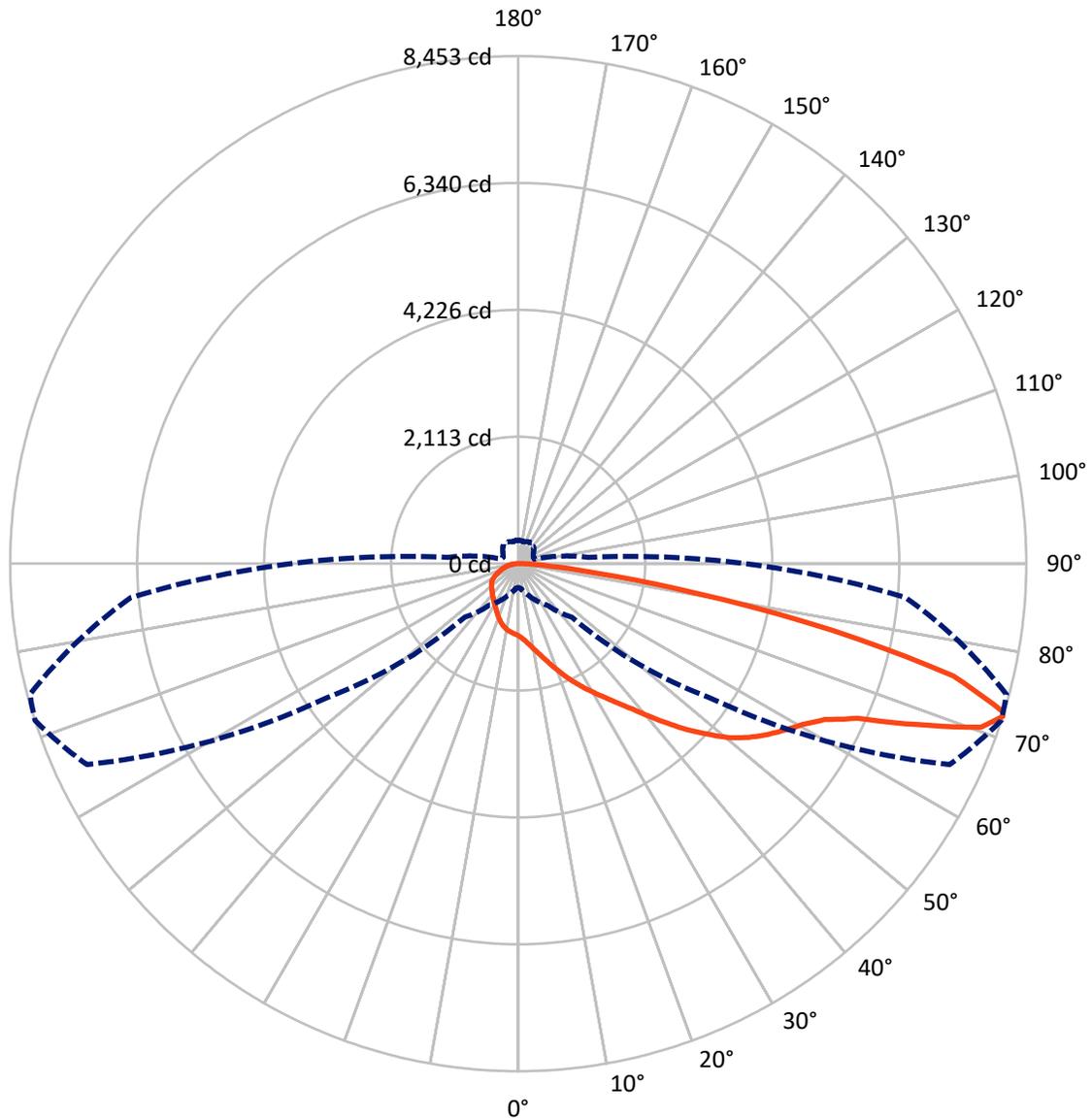


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1815.4	0.0	1815.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	7970.6	0.0	7970.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	9786.0	0.0	9786.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	1.2
10°-20°	389.8	4.0
20°-30°	683.1	7.0
30°-40°	1012.9	10.4
40°-50°	1481.4	15.1
50°-60°	2038.4	20.8
60°-70°	2269.3	23.2
70°-80°	1537.7	15.7
80°-90°	252.7	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°	9786.0	100.0
0°-180°	9786.0	100.0



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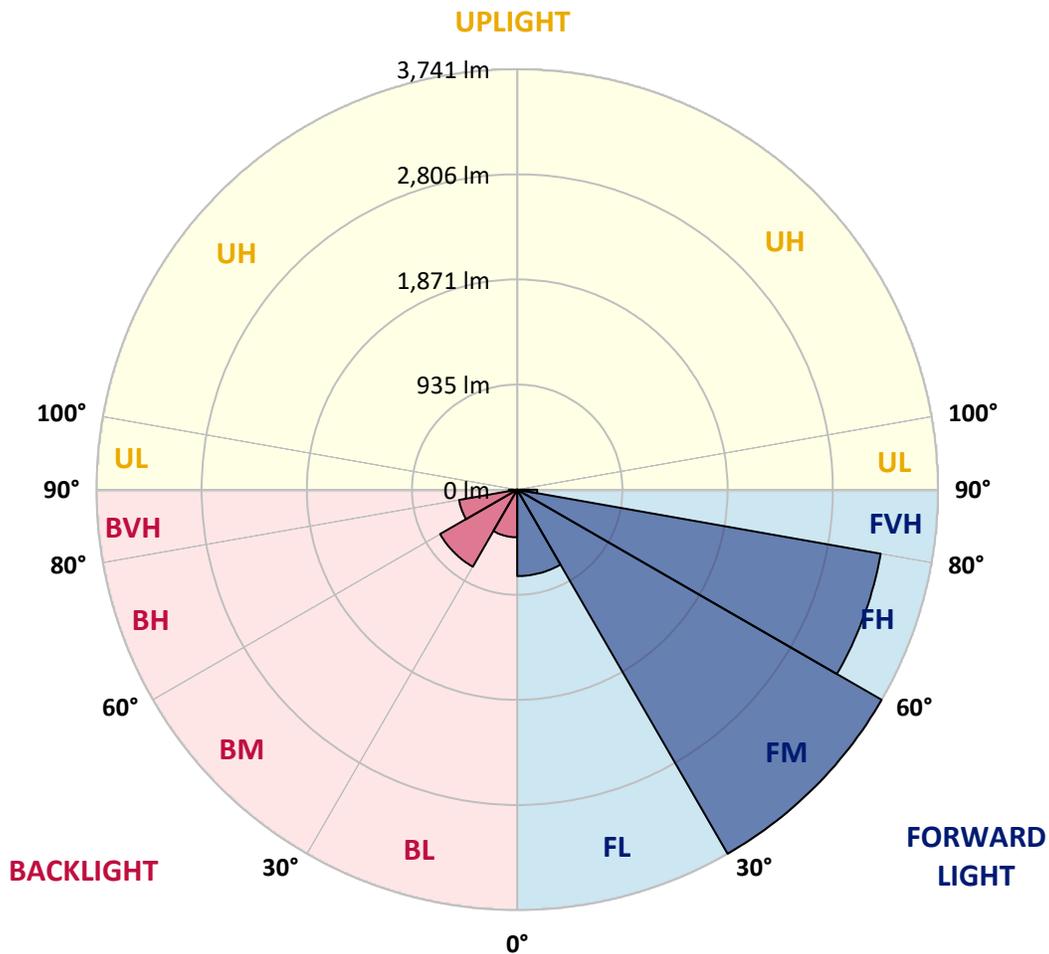
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.2	7.9			
FM	(30°-60°)	3741.3	38.2			
FH	(60°-80°)	3281.8	33.5			G2/5000
FVH	(80°-90°)	178.3	1.8			G2/225
BL	(0°-30°)	424.4	4.3	B1/500		
BM	(30°-60°)	791.3	8.1	B1/1000		
BH	(60°-80°)	525.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	74.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9
2.5°	1330.0	1327.9	1320.9	1320.9	1307.4	1295.9	1274.4	1259.9	1242.7	1236.6	1216.4
5°	1458.7	1459.3	1450.6	1444.5	1424.6	1400.4	1363.6	1330.3	1296.9	1283.5	1242.0
7.5°	1566.8	1565.5	1563.1	1558.1	1539.5	1514.6	1465.1	1415.5	1366.3	1346.1	1274.7
10°	1636.2	1639.3	1641.3	1643.7	1635.9	1618.0	1571.2	1510.9	1446.5	1418.9	1313.8
12.5°	1671.3	1676.7	1686.1	1702.3	1715.1	1713.1	1679.0	1615.0	1538.5	1503.8	1362.6
15°	1691.8	1698.9	1713.7	1742.7	1778.8	1799.3	1790.2	1732.3	1647.0	1604.2	1422.3
17.5°	1704.6	1710.4	1733.3	1772.0	1825.6	1880.2	1904.1	1855.6	1769.7	1720.8	1490.7
20°	1713.4	1717.8	1746.4	1791.9	1861.3	1948.3	2015.0	2002.8	1904.8	1841.4	1562.1
22.5°	1732.9	1736.7	1763.9	1809.8	1886.6	1998.8	2121.8	2140.0	2047.3	1975.6	1638.6
25°	1787.5	1787.5	1810.4	1842.5	1914.6	2042.6	2212.1	2292.6	2192.9	2109.3	1709.4
27.5°	1891.7	1890.6	1899.1	1910.2	1964.8	2087.1	2292.6	2427.4	2343.8	2252.5	1778.1
30°	2015.0	2021.7	2022.7	2017.3	2042.9	2142.7	2367.1	2569.6	2495.8	2397.4	1848.5
32.5°	2173.7	2178.1	2173.0	2155.2	2151.4	2221.5	2440.2	2718.5	2660.2	2548.7	1912.9
35°	2375.2	2366.8	2350.9	2314.5	2279.8	2327.0	2523.8	2867.5	2844.9	2731.7	2001.5
37.5°	2591.2	2591.5	2572.0	2489.4	2441.6	2461.8	2639.0	3036.3	3068.3	2949.4	2115.1
40°	2764.4	2773.5	2785.6	2677.1	2615.1	2643.1	2785.6	3232.1	3332.5	3207.5	2263.0
42.5°	2885.3	2895.8	2930.1	2862.1	2797.7	2849.6	2958.1	3441.0	3629.0	3505.3	2436.2
45°	3013.4	3019.1	3043.4	3014.0	2972.9	3089.9	3152.5	3657.3	3942.7	3822.7	2629.9
47.5°	3148.2	3154.2	3179.2	3159.6	3138.0	3314.3	3355.4	3861.1	4243.2	4171.5	2836.8
50°	3314.6	3318.7	3342.2	3306.9	3313.6	3483.4	3536.7	4048.2	4558.3	4484.8	3044.4
52.5°	3541.7	3542.7	3575.4	3543.4	3511.7	3607.4	3692.7	4224.4	4805.3	4770.6	3251.9
55°	3719.6	3730.4	3837.6	3830.8	3812.6	3720.0	3823.1	4392.2	5025.7	5042.2	3472.3
57.5°	3606.1	3648.2	3865.2	4018.2	4167.1	4000.0	3999.3	4581.2	5230.5	5308.7	3714.6
60°	3158.3	3215.5	3535.3	3874.6	4340.6	4487.2	4365.2	4812.0	5437.4	5572.9	4018.2
62.5°	2255.6	2349.9	2783.2	3325.1	4102.7	4810.0	5109.9	5178.3	5718.8	5878.8	4412.7
65°	1140.2	1211.7	1574.9	2227.6	3277.9	4599.1	5919.3	5980.2	6207.7	6349.9	5020.3
67.5°	692.8	719.7	897.0	1239.0	2009.6	3582.5	6183.4	7316.9	7153.9	7229.3	5886.6
70°	510.5	530.4	640.9	822.8	1155.7	2102.3	5372.7	8270.8	8163.7	8155.3	6526.8
72°	397.6	412.1	509.8	664.8	845.1	1261.2	3894.2	7918.7	8452.8	8410.3	6468.2
72.5°	377.1	389.9	478.8	625.7	798.6	1143.3	3501.3	7681.2	8431.9	8412.7	6392.3
75°	296.9	306.0	354.5	483.9	625.0	648.6	1918.6	5952.6	7480.0	7791.0	5749.4
77.5°	245.6	247.0	272.6	352.1	487.2	458.6	942.5	4130.0	5356.2	5698.2	4072.8
80°	200.2	201.8	214.0	247.0	368.6	339.3	447.5	2374.8	2998.9	3002.6	1936.8
82.5°	159.4	159.7	173.2	180.6	264.8	242.6	256.4	1115.0	1310.4	1260.5	696.1
85°	112.2	109.8	169.2	148.3	173.2	155.7	141.5	441.4	541.8	518.2	218.0
87.5°	37.4	38.7	75.1	96.0	101.1	88.3	63.0	169.2	204.5	202.8	69.1
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°	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9
2.5°	1210.0	1199.2	1183.4	1165.9	1152.0	1137.9	1127.4	1122.1	1116.0	1110.9	1117.0
5°	1222.8	1202.6	1168.9	1135.9	1111.6	1090.0	1074.5	1066.5	1059.0	1054.0	1054.7
7.5°	1243.7	1211.0	1154.4	1106.2	1072.5	1049.3	1033.4	1028.0	1023.3	1022.0	1023.7
10°	1265.9	1217.7	1135.2	1071.2	1032.8	1013.6	1006.5	1010.2	1013.6	1016.6	1020.0
12.5°	1291.2	1223.8	1107.2	1030.1	997.4	990.0	997.0	1013.2	1025.0	1032.1	1036.5
15°	1324.2	1229.2	1074.9	989.0	967.1	975.5	999.4	1027.4	1047.9	1061.1	1063.1
17.5°	1354.6	1228.9	1033.4	947.5	942.5	967.1	1003.1	1042.5	1070.2	1088.7	1092.4
20°	1385.9	1219.8	985.3	907.1	917.5	958.0	1004.8	1052.3	1085.7	1107.2	1112.3
22.5°	1415.2	1203.9	932.3	870.3	896.6	945.8	998.4	1046.6	1079.9	1097.5	1102.8
25°	1435.1	1176.3	878.8	839.4	878.1	931.0	977.5	1016.3	1041.2	1049.9	1051.3
27.5°	1445.2	1140.2	828.2	812.4	858.9	906.7	938.8	958.0	965.0	964.4	963.0
30°	1446.5	1092.7	784.8	790.5	836.7	871.0	886.2	882.5	873.4	857.9	859.2
32.5°	1442.2	1039.2	748.4	769.6	808.4	827.6	828.2	810.4	786.1	761.5	754.8
35°	1443.5	986.6	716.4	746.0	774.0	782.4	774.7	748.4	715.4	683.7	676.9
37.5°	1458.3	940.8	688.7	718.7	735.9	737.9	726.8	699.2	674.9	643.9	641.2
40°	1493.7	908.1	662.4	688.1	697.8	698.8	683.0	663.5	665.5	649.0	648.6
42.5°	1557.4	893.9	639.2	656.0	662.1	664.1	652.0	639.5	657.1	646.3	642.6
45°	1639.6	897.3	619.7	624.7	635.8	645.3	637.9	622.7	629.4	582.6	567.1
47.5°	1734.6	918.9	604.2	597.8	617.0	634.8	623.4	600.5	576.5	530.0	521.3
50°	1845.8	952.2	590.0	571.1	596.4	620.7	609.2	576.5	540.5	517.9	514.9
52.5°	1961.7	993.0	575.9	541.8	570.5	609.9	604.2	571.1	526.7	504.4	500.4
55°	2093.2	1034.1	558.0	507.8	542.5	604.8	601.8	551.6	516.2	503.7	500.7
57.5°	2256.6	1080.9	534.4	472.4	516.2	586.6	577.2	539.8	505.4	496.0	495.0
60°	2469.5	1150.0	500.4	434.7	484.2	558.7	556.6	522.6	488.2	481.5	480.2
62.5°	2789.0	1264.2	453.5	396.9	448.5	511.2	529.7	499.4	470.0	469.7	470.4
65°	3284.3	1436.1	402.7	363.9	412.4	471.1	498.4	475.4	451.5	458.3	459.3
67.5°	3858.4	1578.6	352.8	331.6	375.7	433.0	470.0	451.5	426.9	444.4	444.8
70°	4049.5	1451.3	309.0	299.6	337.6	396.3	439.4	425.2	400.3	417.8	416.1
72°	3768.5	1171.6	280.7	275.3	309.0	365.9	412.1	400.6	376.0	387.8	383.5
72.5°	3679.9	1117.0	273.6	269.2	301.2	358.2	405.0	394.6	370.0	380.1	376.0
75°	3282.6	970.1	235.2	236.2	262.8	320.4	365.3	361.9	336.6	337.6	336.3
77.5°	2380.9	711.3	198.1	204.9	223.7	281.7	325.2	323.1	295.5	290.5	289.4
80°	1104.9	362.9	161.4	164.4	184.0	235.5	277.3	274.6	252.4	246.0	242.3
82.5°	378.4	172.5	121.3	123.3	142.5	189.7	240.6	238.9	220.4	207.9	200.2
85°	135.1	85.9	84.9	82.9	101.8	149.3	209.6	200.5	173.2	147.6	146.9
87.5°	43.8	36.7	43.8	43.5	59.3	101.1	152.3	129.7	125.7	104.5	102.4
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)