

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: P1209079

Luminaire Tested: UPW-SA2-090-740-U-T2

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209079  
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-SA2-090-740-U-T2  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11703 lumens  
Efficiency: N/A  
Efficacy: 136.1 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

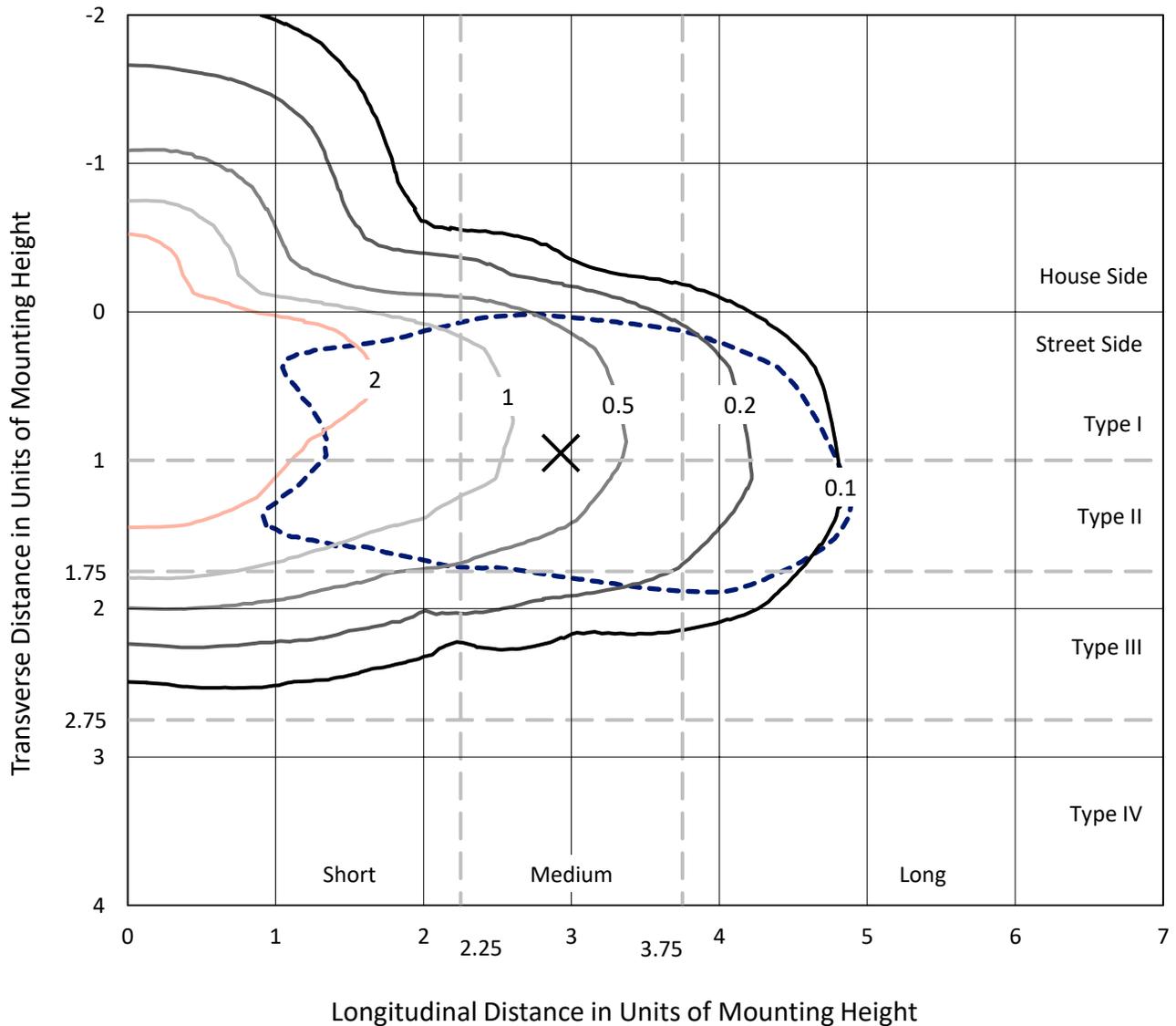


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

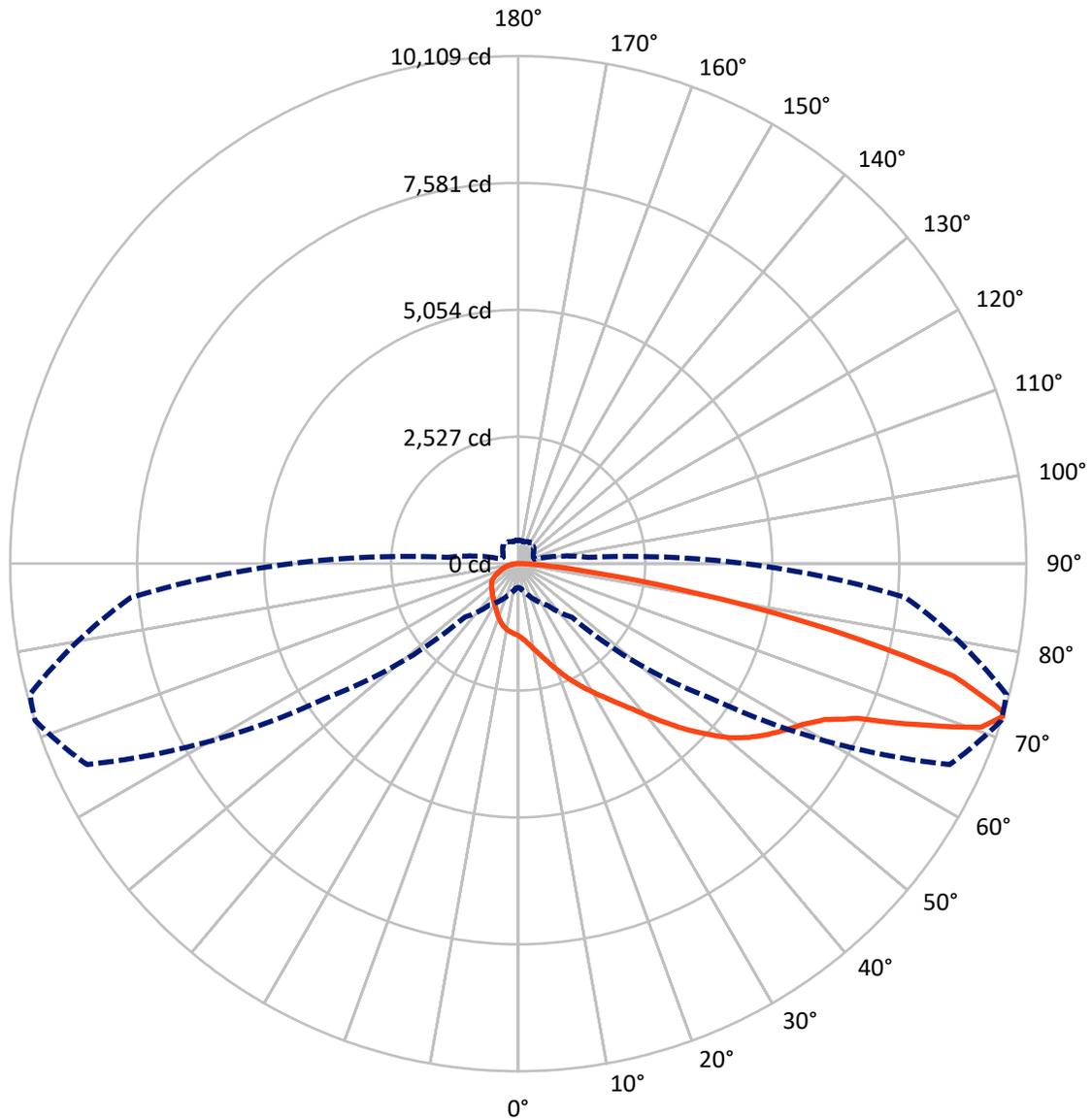


Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - N/A

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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	2171.0	0.0	2171.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	9532.0	0.0	9532.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	11703.0	0.0	11703.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.3	1.2
10°-20°	466.2	4.0
20°-30°	816.9	7.0
30°-40°	1211.3	10.4
40°-50°	1771.6	15.1
50°-60°	2437.7	20.8
60°-70°	2713.9	23.2
70°-80°	1838.9	15.7
80°-90°	302.2	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°	11703.0	100.0
0°-180°	11703.0	100.0



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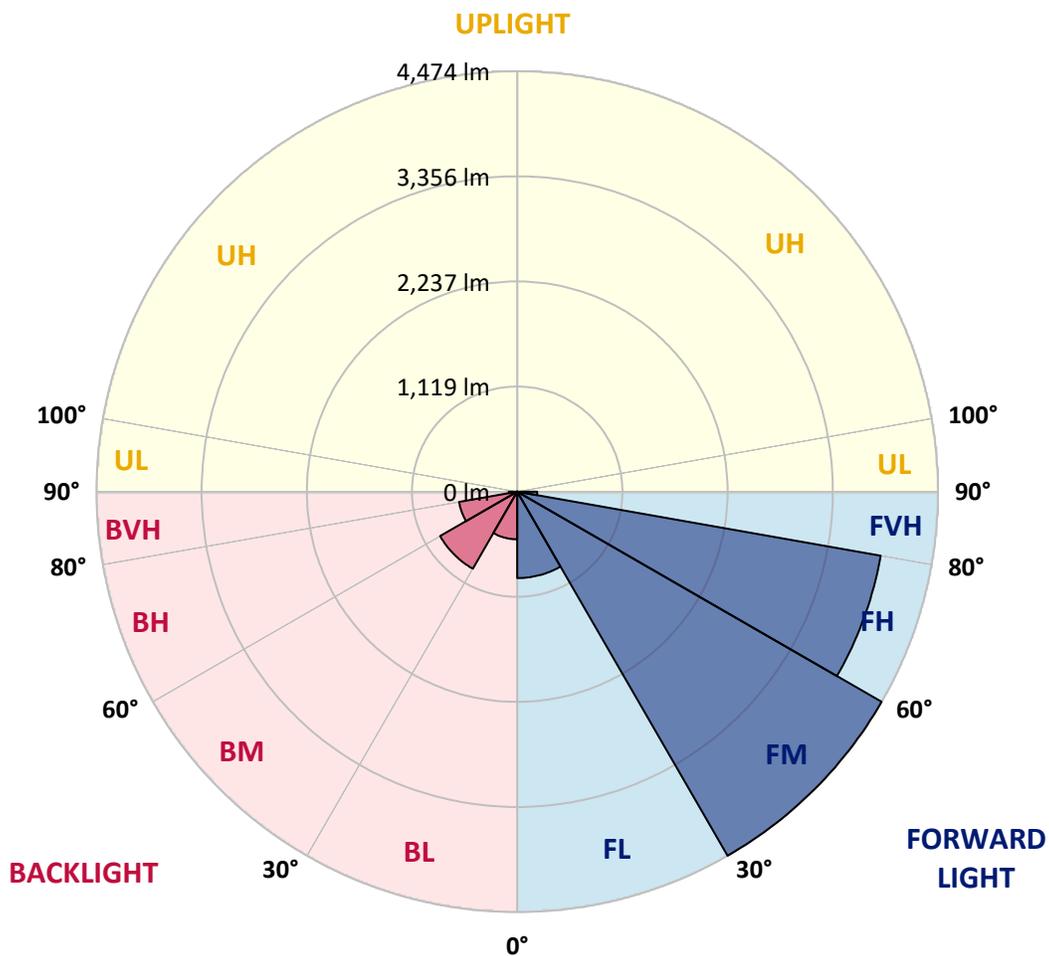
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.9	7.9			
FM (30°-60°)	4474.2	38.2			
FH (60°-80°)	3924.7	33.5			G2/5000
FVH (80°-90°)	213.2	1.8			G2/225
BL (0°-30°)	507.5	4.3	B2/1000		
BM (30°-60°)	946.3	8.1	B1/1000		
BH (60°-80°)	628.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	89.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1590.5	1588.1	1579.6	1579.6	1563.5	1549.8	1524.0	1506.7	1486.1	1478.9	1454.7
5°	1744.4	1745.2	1734.7	1727.5	1703.7	1674.7	1630.8	1590.9	1551.0	1534.9	1485.3
7.5°	1873.8	1872.1	1869.3	1863.3	1841.1	1811.3	1752.1	1692.8	1634.0	1609.8	1524.4
10°	1956.8	1960.4	1962.8	1965.6	1956.4	1935.0	1879.0	1806.9	1729.9	1696.9	1571.1
12.5°	1998.7	2005.1	2016.4	2035.8	2051.1	2048.6	2007.9	1931.4	1839.9	1798.4	1629.6
15°	2023.3	2031.7	2049.5	2084.1	2127.2	2151.8	2140.9	2071.6	1969.7	1918.5	1700.9
17.5°	2038.6	2045.4	2072.8	2119.2	2183.2	2248.5	2277.1	2219.1	2116.3	2057.9	1782.7
20°	2049.0	2054.3	2088.5	2142.9	2225.9	2329.9	2409.7	2395.2	2277.9	2202.2	1868.1
22.5°	2072.4	2076.9	2109.5	2164.3	2256.2	2390.4	2537.4	2559.2	2448.4	2362.6	1959.6
25°	2137.7	2137.7	2165.1	2203.4	2289.6	2442.7	2645.4	2741.7	2622.5	2522.5	2044.2
27.5°	2262.2	2261.0	2271.1	2284.4	2349.7	2495.9	2741.7	2902.9	2803.0	2693.8	2126.4
30°	2409.7	2417.8	2419.0	2412.5	2443.1	2562.4	2830.8	3073.0	2984.7	2867.1	2210.6
32.5°	2599.5	2604.7	2598.7	2577.3	2572.9	2656.7	2918.2	3251.1	3181.4	3048.0	2287.6
35°	2840.5	2830.4	2811.4	2767.9	2726.4	2782.8	3018.2	3429.2	3402.2	3266.8	2393.6
37.5°	3098.8	3099.2	3075.8	2977.1	2919.8	2944.0	3156.0	3631.1	3669.3	3527.1	2529.4
40°	3305.9	3316.8	3331.3	3201.5	3127.4	3160.8	3331.3	3865.2	3985.3	3835.8	2706.3
42.5°	3450.5	3463.0	3504.1	3422.7	3345.8	3407.8	3537.6	4115.0	4339.9	4192.0	2913.4
45°	3603.7	3610.5	3639.5	3604.5	3555.3	3695.1	3770.1	4373.7	4715.0	4571.6	3145.1
47.5°	3764.9	3772.1	3801.9	3778.6	3752.8	3963.5	4012.7	4617.5	5074.5	4988.6	3392.5
50°	3963.9	3968.7	3997.0	3954.6	3962.7	4165.8	4229.5	4841.2	5451.2	5363.4	3640.7
52.5°	4235.5	4236.7	4275.8	4237.5	4199.6	4314.1	4416.0	5051.9	5746.6	5705.1	3889.0
55°	4448.3	4461.2	4589.3	4581.2	4559.5	4448.7	4572.0	5252.6	6010.1	6029.9	4152.5
57.5°	4312.5	4362.8	4622.3	4805.3	4983.4	4783.5	4782.7	5478.6	6255.1	6348.6	4442.2
60°	3776.9	3845.4	4227.9	4633.6	5190.9	5366.2	5220.3	5754.7	6502.6	6664.5	4805.3
62.5°	2697.4	2810.2	3328.4	3976.4	4906.4	5752.2	6110.9	6192.7	6839.0	7030.4	5277.2
65°	1363.6	1449.0	1883.4	2664.0	3920.0	5500.0	7078.8	7151.7	7423.7	7593.8	6003.7
67.5°	828.5	860.7	1072.7	1481.7	2403.3	4284.3	7394.7	8750.3	8555.2	8645.5	7039.7
70°	610.5	634.3	766.4	984.0	1382.2	2514.1	6425.2	9891.0	9762.9	9752.8	7805.3
72°	475.5	492.8	609.7	795.0	1010.6	1508.3	4657.0	9470.0	10108.6	10057.9	7735.2
72.5°	450.9	466.2	572.6	748.3	955.0	1367.2	4187.2	9185.9	10083.7	10060.7	7644.5
75°	355.0	365.9	423.9	578.6	747.5	775.7	2294.5	7118.7	8945.3	9317.2	6875.7
77.5°	293.8	295.4	326.0	421.1	582.7	548.4	1127.1	4939.1	6405.4	6814.4	4870.6
80°	239.4	241.4	255.9	295.4	440.8	405.8	535.1	2840.1	3586.3	3590.8	2316.2
82.5°	190.6	191.0	207.1	216.0	316.7	290.1	306.7	1333.4	1567.1	1507.5	832.5
85°	134.2	131.4	202.3	177.3	207.1	186.2	169.2	527.9	648.0	619.8	260.7
87.5°	44.7	46.3	89.9	114.8	120.9	105.6	75.4	202.3	244.6	242.6	82.6
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°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1447.0	1434.1	1415.2	1394.2	1377.7	1360.8	1348.3	1341.9	1334.6	1328.6	1335.8
5°	1462.3	1438.2	1397.9	1358.4	1329.4	1303.6	1285.0	1275.4	1266.5	1260.5	1261.3
7.5°	1487.3	1448.2	1380.5	1322.9	1282.6	1254.8	1235.9	1229.4	1223.8	1222.2	1224.2
10°	1513.9	1456.3	1357.6	1281.0	1235.1	1212.1	1203.6	1208.1	1212.1	1215.7	1219.8
12.5°	1544.1	1463.5	1324.1	1231.8	1192.8	1183.9	1192.4	1211.7	1225.8	1234.3	1239.5
15°	1583.6	1470.0	1285.4	1182.7	1156.5	1166.6	1195.2	1228.6	1253.2	1268.9	1271.3
17.5°	1619.9	1469.6	1235.9	1133.1	1127.1	1156.5	1199.6	1246.8	1279.8	1302.0	1306.4
20°	1657.4	1458.7	1178.3	1084.8	1097.3	1145.6	1201.6	1258.4	1298.3	1324.1	1330.2
22.5°	1692.4	1439.8	1115.0	1040.8	1072.3	1131.1	1194.0	1251.6	1291.5	1312.4	1318.9
25°	1716.2	1406.7	1050.9	1003.8	1050.1	1113.4	1169.0	1215.3	1245.1	1255.6	1257.2
27.5°	1728.3	1363.6	990.5	971.5	1027.1	1084.4	1122.6	1145.6	1154.1	1153.3	1151.7
30°	1729.9	1306.8	938.5	945.3	1000.5	1041.7	1059.8	1055.4	1044.5	1025.9	1027.5
32.5°	1724.7	1242.7	895.0	920.4	966.7	989.7	990.5	969.1	940.1	910.7	902.6
35°	1726.3	1179.9	856.7	892.2	925.6	935.7	926.4	895.0	855.5	817.6	809.5
37.5°	1744.0	1125.1	823.6	859.5	880.1	882.5	869.2	836.1	807.1	770.1	766.8
40°	1786.3	1086.0	792.2	822.8	834.5	835.7	816.8	793.4	795.8	776.1	775.7
42.5°	1862.5	1069.1	764.4	784.6	791.8	794.2	779.7	764.8	785.8	772.9	768.4
45°	1960.8	1073.1	741.0	747.1	760.4	771.7	762.8	744.7	752.7	696.7	678.2
47.5°	2074.4	1098.9	722.5	714.9	737.8	759.2	745.5	718.1	689.5	633.9	623.4
50°	2207.4	1138.8	705.6	683.0	713.2	742.3	728.6	689.5	646.3	619.3	615.7
52.5°	2346.0	1187.5	688.7	648.0	682.2	729.4	722.5	683.0	629.8	603.2	598.4
55°	2503.2	1236.7	667.3	607.3	648.8	723.3	719.7	659.6	617.3	602.4	598.8
57.5°	2698.6	1292.7	639.1	564.9	617.3	701.6	690.3	645.5	604.4	593.2	591.9
60°	2953.3	1375.3	598.4	519.8	579.1	668.1	665.7	625.0	583.9	575.8	574.2
62.5°	3335.3	1511.9	542.4	474.7	536.3	611.3	633.5	597.2	562.1	561.7	562.5
65°	3927.6	1717.4	481.5	435.2	493.2	563.3	596.0	568.6	540.0	548.0	549.2
67.5°	4614.3	1887.9	421.9	396.5	449.3	517.8	562.1	540.0	510.5	531.5	531.9
70°	4842.8	1735.5	369.5	358.2	403.8	473.9	525.5	508.5	478.7	499.7	497.7
72°	4506.7	1401.1	335.7	329.2	369.5	437.6	492.8	479.1	449.7	463.8	458.6
72.5°	4400.7	1335.8	327.2	322.0	360.2	428.3	484.4	471.9	442.4	454.5	449.7
75°	3925.6	1160.1	281.3	282.5	314.3	383.2	436.8	432.8	402.6	403.8	402.2
77.5°	2847.3	850.6	236.9	245.0	267.6	336.9	388.9	386.4	353.4	347.4	346.1
80°	1321.3	434.0	193.0	196.6	220.0	281.7	331.6	328.4	301.8	294.2	289.7
82.5°	452.5	206.3	145.1	147.5	170.5	226.9	287.7	285.7	263.5	248.6	239.4
85°	161.6	102.8	101.5	99.1	121.7	178.5	250.6	239.8	207.1	176.5	175.7
87.5°	52.4	43.9	52.4	52.0	70.9	120.9	182.1	155.1	150.3	124.9	122.5
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)