

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: P1209486

Luminaire Tested: UPW-SA2-130-727-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-727-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14109 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

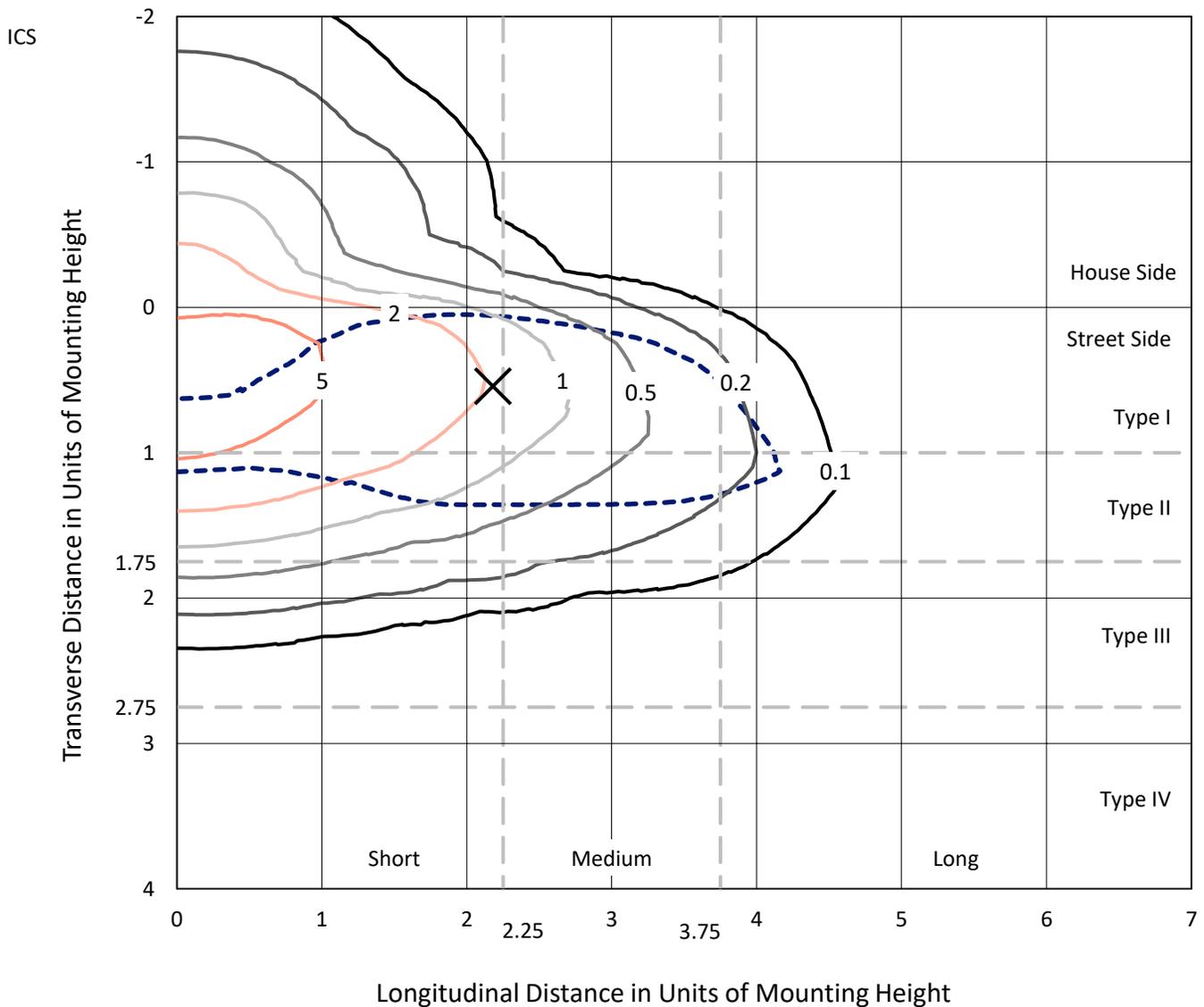
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

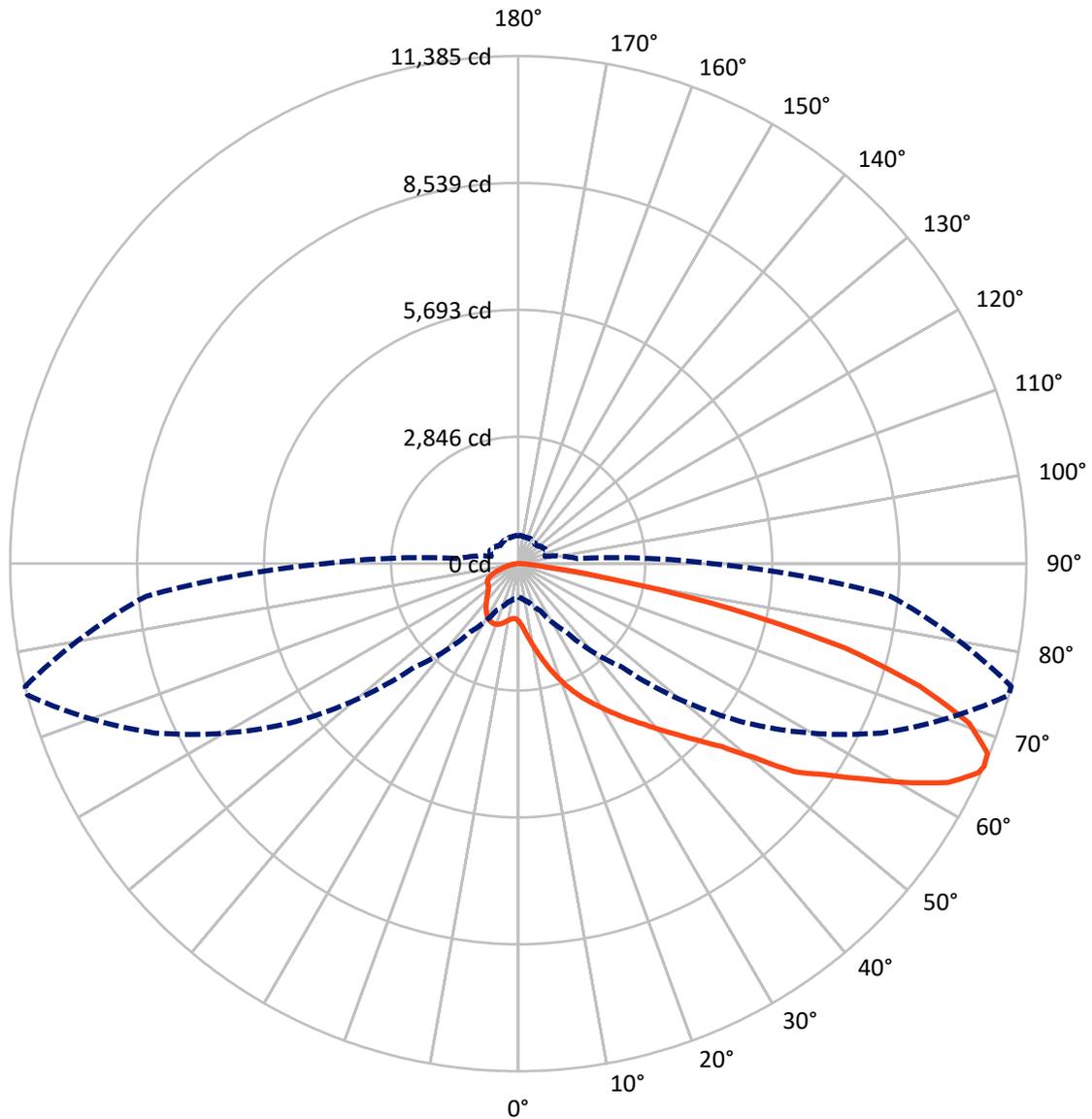
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2374.1	0.0	2374.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11734.9	0.0	11734.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	14109.0	0.0	14109.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	1.1
10°-20°	615.3	4.4
20°-30°	1195.7	8.5
30°-40°	1951.6	13.8
40°-50°	2666.3	18.9
50°-60°	3105.7	22.0
60°-70°	2784.3	19.7
70°-80°	1407.1	10.0
80°-90°	227.2	1.6
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°	14109.0	100.0
0°-180°	14109.0	100.0



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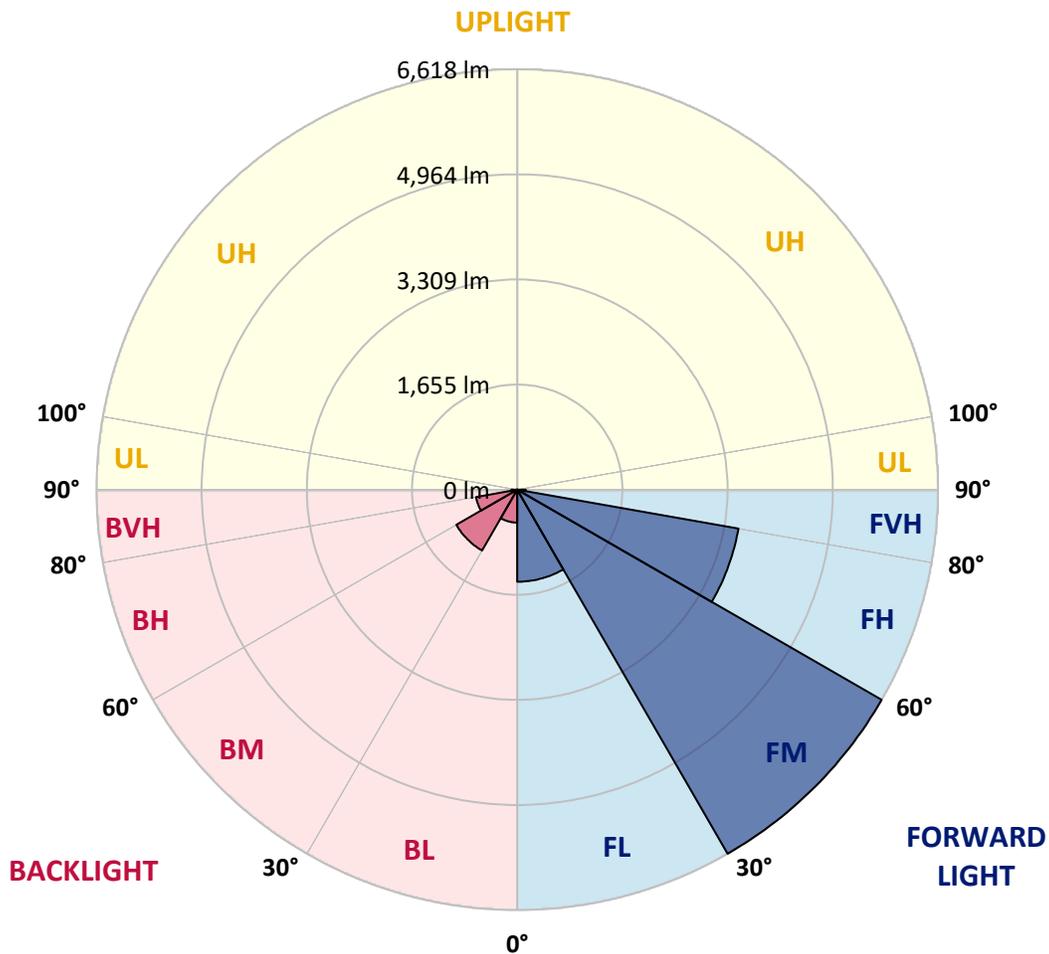
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.0	10.3			
FM (30°-60°)	6618.1	46.9			
FH (60°-80°)	3533.7	25.0			G2/5000
FVH (80°-90°)	134.2	1.0			G2/225
BL (0°-30°)	517.8	3.7	B2/1000		
BM (30°-60°)	1105.5	7.8	B2/2500		
BH (60°-80°)	657.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	93.0	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5
2.5°	1710.5	1684.6	1682.2	1644.4	1635.7	1563.4	1510.2	1454.7	1391.5	1379.0	1329.2
5°	2197.1	2194.7	2161.7	2099.9	2051.5	1927.9	1805.8	1676.4	1534.7	1511.7	1399.6
7.5°	2634.9	2631.1	2605.7	2539.1	2469.2	2317.3	2143.0	1944.7	1714.8	1680.8	1494.9
10°	2967.3	2965.9	2957.3	2908.4	2849.0	2703.4	2510.8	2240.2	1924.1	1877.6	1614.2
12.5°	3224.0	3226.9	3232.7	3215.4	3187.2	3063.1	2865.8	2553.5	2147.3	2101.3	1746.9
15°	3397.9	3406.5	3436.2	3460.7	3475.5	3399.4	3208.2	2873.9	2397.3	2342.2	1893.9
17.5°	3485.6	3495.2	3546.4	3620.2	3688.2	3680.5	3528.7	3179.5	2637.3	2584.1	2052.0
20°	3561.3	3568.4	3625.9	3714.5	3834.8	3887.9	3802.7	3473.6	2900.3	2837.0	2219.6
22.5°	3780.6	3789.7	3807.0	3857.3	3963.6	4061.3	4020.1	3751.9	3141.2	3082.3	2378.6
25°	4204.1	4215.1	4177.7	4135.1	4155.2	4223.2	4230.9	4005.8	3385.5	3318.9	2549.6
27.5°	4714.2	4730.0	4666.3	4556.6	4460.8	4434.4	4425.3	4213.6	3618.7	3541.6	2718.7
30°	5213.8	5241.1	5158.2	5015.9	4840.1	4716.6	4625.1	4417.2	3848.6	3774.9	2878.2
32.5°	5701.8	5690.8	5570.6	5431.7	5225.7	5071.0	4849.7	4635.6	4107.3	4022.5	3036.8
35°	6036.2	6040.0	5928.4	5763.6	5567.2	5448.5	5150.5	4871.3	4371.2	4293.1	3216.9
37.5°	6320.7	6303.0	6176.5	6022.8	5853.7	5802.9	5502.6	5130.9	4657.2	4571.9	3408.5
40°	6415.5	6394.9	6312.1	6201.4	6065.9	6061.6	5891.0	5425.0	4980.5	4896.2	3624.5
42.5°	6358.0	6331.7	6297.7	6267.5	6225.8	6245.0	6256.0	5769.9	5335.9	5241.5	3874.5
45°	6145.9	6106.1	6130.1	6195.7	6286.2	6394.5	6585.6	6151.6	5733.9	5654.9	4168.1
47.5°	5819.7	5783.7	5858.5	5998.8	6245.0	6519.0	6897.4	6573.1	6209.1	6130.5	4586.3
50°	5360.8	5371.3	5478.2	5733.5	6105.6	6576.5	7281.5	7131.1	6899.8	6826.5	5156.8
52.5°	4607.8	4609.8	4910.6	5329.7	5858.5	6546.8	7494.7	7844.3	7842.9	7754.3	5699.9
55°	3908.5	3951.1	4189.2	4746.3	5458.0	6428.0	7643.6	8191.1	8462.2	8358.3	6206.2
57.5°	3225.5	3250.4	3476.0	4035.4	4886.6	6111.4	7796.4	8607.4	9175.9	9110.3	6835.6
60°	2448.6	2486.9	2720.2	3237.0	4155.7	5549.5	7810.8	9041.8	10029.0	9962.9	7538.3
62.5°	1589.3	1655.4	1873.8	2358.0	3271.5	4741.5	7477.4	9325.8	10837.5	10814.0	8161.9
65°	913.4	963.2	1115.1	1488.7	2257.0	3727.0	6684.7	9216.6	11335.2	11321.8	8395.2
66°	746.3	777.4	893.8	1163.5	1862.3	3272.9	6223.9	8986.2	11384.5	11385.0	8368.3
67.5°	596.8	610.7	662.9	833.0	1374.2	2594.2	5400.6	8478.0	11323.2	11340.0	8195.4
70°	493.8	501.0	517.3	558.5	750.1	1564.4	3833.3	7157.5	10707.7	10720.6	7520.5
72.5°	443.1	447.4	453.6	459.3	529.3	874.1	2341.3	5725.8	9388.1	9404.9	6492.2
75°	401.4	403.8	402.8	403.3	444.0	557.1	1209.9	4274.9	7591.0	7557.4	4973.3
77.5°	352.5	354.9	350.1	351.1	392.8	428.2	602.1	2992.7	5122.7	4886.1	2802.1
80°	297.9	299.8	297.9	301.3	342.0	323.3	350.1	1683.6	2265.1	2142.5	996.3
82.5°	225.1	233.3	239.0	252.4	281.6	229.9	234.2	655.7	689.7	656.7	305.6
85°	98.7	120.2	180.1	193.0	211.7	137.9	153.8	267.3	280.7	272.1	111.1
87.5°	25.9	28.3	89.1	112.1	117.4	62.3	80.0	121.7	128.4	121.7	36.9
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°	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5	1288.5
2.5°	1302.8	1279.4	1237.2	1199.9	1171.6	1152.4	1133.3	1123.7	1118.0	1112.2	1113.2
5°	1344.5	1297.1	1224.8	1173.5	1144.8	1126.6	1117.0	1113.2	1110.8	1105.0	1105.0
7.5°	1407.3	1340.2	1240.6	1187.9	1165.4	1151.5	1145.7	1143.8	1140.9	1134.2	1135.2
10°	1486.3	1392.4	1273.6	1222.4	1201.8	1186.4	1178.3	1175.4	1170.2	1162.5	1163.5
12.5°	1579.2	1457.1	1317.2	1263.6	1238.7	1218.1	1204.6	1196.5	1187.4	1177.3	1177.8
15°	1680.8	1527.5	1364.1	1300.4	1266.4	1237.7	1216.1	1202.3	1187.9	1175.4	1175.0
17.5°	1783.7	1595.5	1400.1	1320.6	1274.6	1236.7	1207.5	1186.0	1168.2	1152.9	1151.5
20°	1894.9	1656.8	1420.2	1318.6	1259.3	1214.2	1175.4	1148.6	1129.0	1113.6	1111.2
22.5°	2007.9	1714.3	1423.5	1299.0	1225.2	1170.2	1129.4	1099.7	1079.6	1063.8	1058.1
25°	2111.4	1758.8	1409.7	1261.2	1177.8	1118.4	1078.7	1048.5	1032.2	1013.5	1007.8
27.5°	2205.7	1790.0	1381.9	1212.8	1124.7	1066.2	1028.9	1003.0	985.3	970.9	966.1
30°	2290.5	1806.7	1336.4	1155.3	1070.1	1016.9	985.3	967.5	952.2	934.0	930.7
32.5°	2371.0	1806.7	1277.9	1092.6	1015.9	973.3	954.6	943.6	926.4	908.6	903.8
35°	2451.4	1795.7	1209.0	1026.9	966.1	942.2	941.2	928.3	901.9	878.0	871.8
37.5°	2536.2	1773.2	1131.4	965.6	925.4	928.3	936.4	907.7	870.3	836.3	827.2
40°	2632.0	1742.1	1050.9	912.5	891.4	922.0	923.5	878.0	805.2	774.0	765.9
42.5°	2744.6	1710.9	976.2	865.5	864.6	903.4	899.1	813.8	770.2	754.4	750.1
45°	2892.6	1693.2	905.3	821.0	843.5	873.2	857.4	778.4	760.1	751.0	747.2
47.5°	3125.9	1702.3	840.1	785.5	822.4	843.0	779.8	764.0	751.0	740.0	736.2
50°	3418.0	1697.0	787.5	761.1	798.5	811.4	744.8	745.3	738.6	726.1	720.4
52.5°	3637.9	1655.9	753.4	747.2	777.4	755.4	722.8	727.1	723.7	705.5	699.3
55°	3850.1	1620.4	736.2	741.9	762.1	685.4	696.9	707.5	704.1	686.4	683.5
57.5°	4114.0	1613.7	725.7	743.4	749.1	650.5	672.0	685.9	683.5	675.8	674.4
60°	4437.3	1615.6	716.1	745.8	734.8	624.6	648.5	666.3	667.7	666.3	665.3
62.5°	4615.0	1563.4	692.1	739.1	709.4	602.1	624.1	650.0	650.5	653.3	652.9
65°	4464.1	1407.3	647.6	715.6	666.7	583.4	603.0	631.3	624.1	637.1	637.1
66°	4317.6	1317.2	625.6	700.3	648.5	576.2	596.3	621.7	612.6	630.3	630.3
67.5°	4018.2	1165.4	585.8	667.7	622.7	566.2	588.7	605.9	593.5	619.8	617.9
70°	3471.2	901.4	505.8	593.9	580.1	551.3	578.1	574.3	556.1	596.3	588.7
72.5°	2926.6	684.9	406.2	497.2	515.4	532.6	563.3	534.1	511.1	539.3	522.6
75°	2270.9	514.9	320.9	386.5	435.4	503.4	545.6	487.6	454.6	451.7	442.6
77.5°	1227.6	353.5	254.3	295.1	345.8	467.0	533.6	437.8	388.0	376.5	369.3
80°	486.2	229.9	184.9	223.7	241.9	414.3	504.9	379.8	320.0	308.5	297.4
82.5°	200.7	136.0	119.3	149.9	157.6	354.4	453.1	311.3	247.2	342.0	363.1
85°	86.2	74.7	70.9	77.6	89.1	248.6	360.7	237.6	266.8	238.1	189.2
87.5°	25.9	31.6	30.2	29.7	32.6	59.4	192.1	132.2	195.9	74.2	55.6
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)