

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1210856

Luminaire Tested: **ARCH3-90-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10677 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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: 24 FT

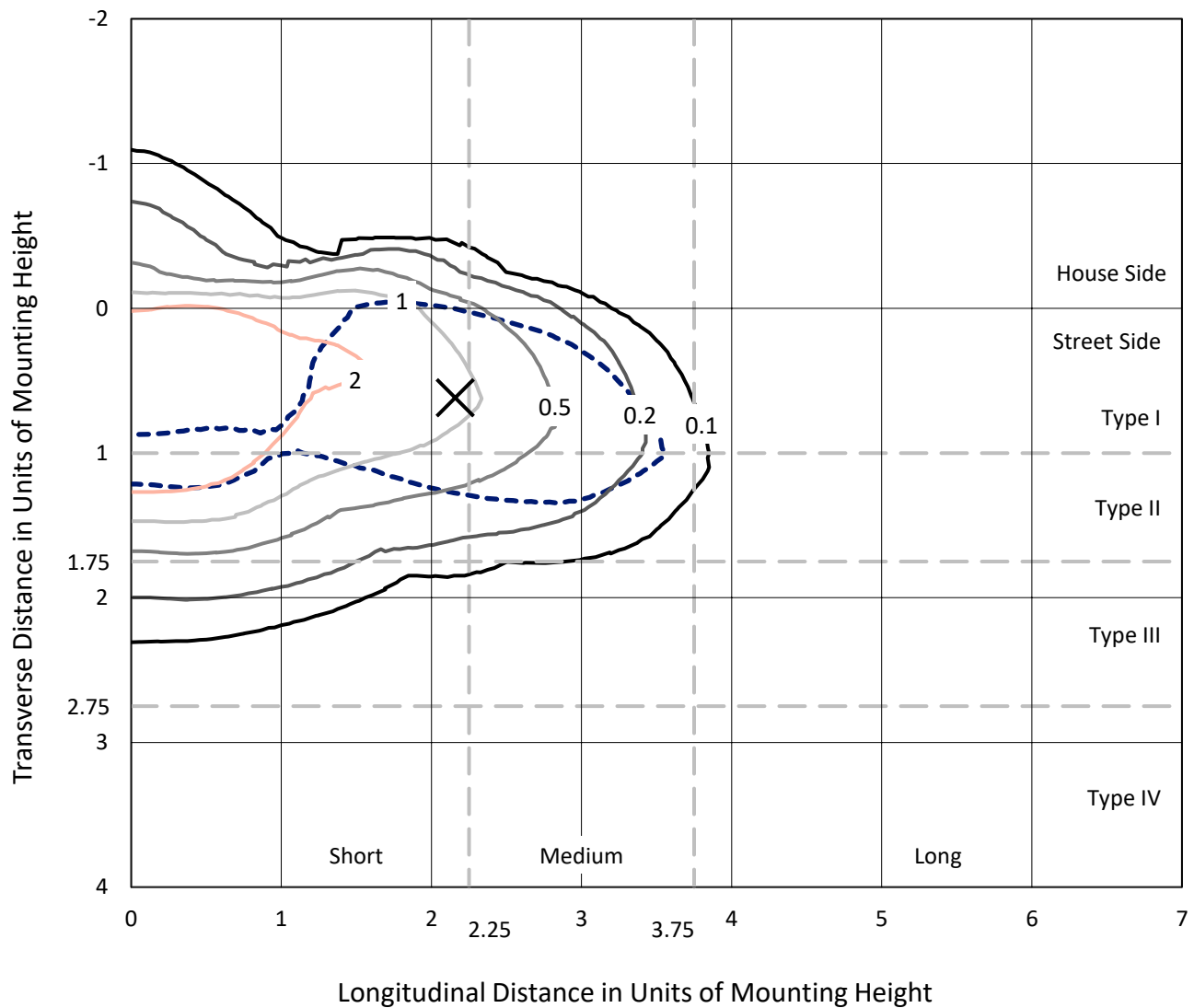


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Iso-Footcandle Lines of Horizontal Illumination

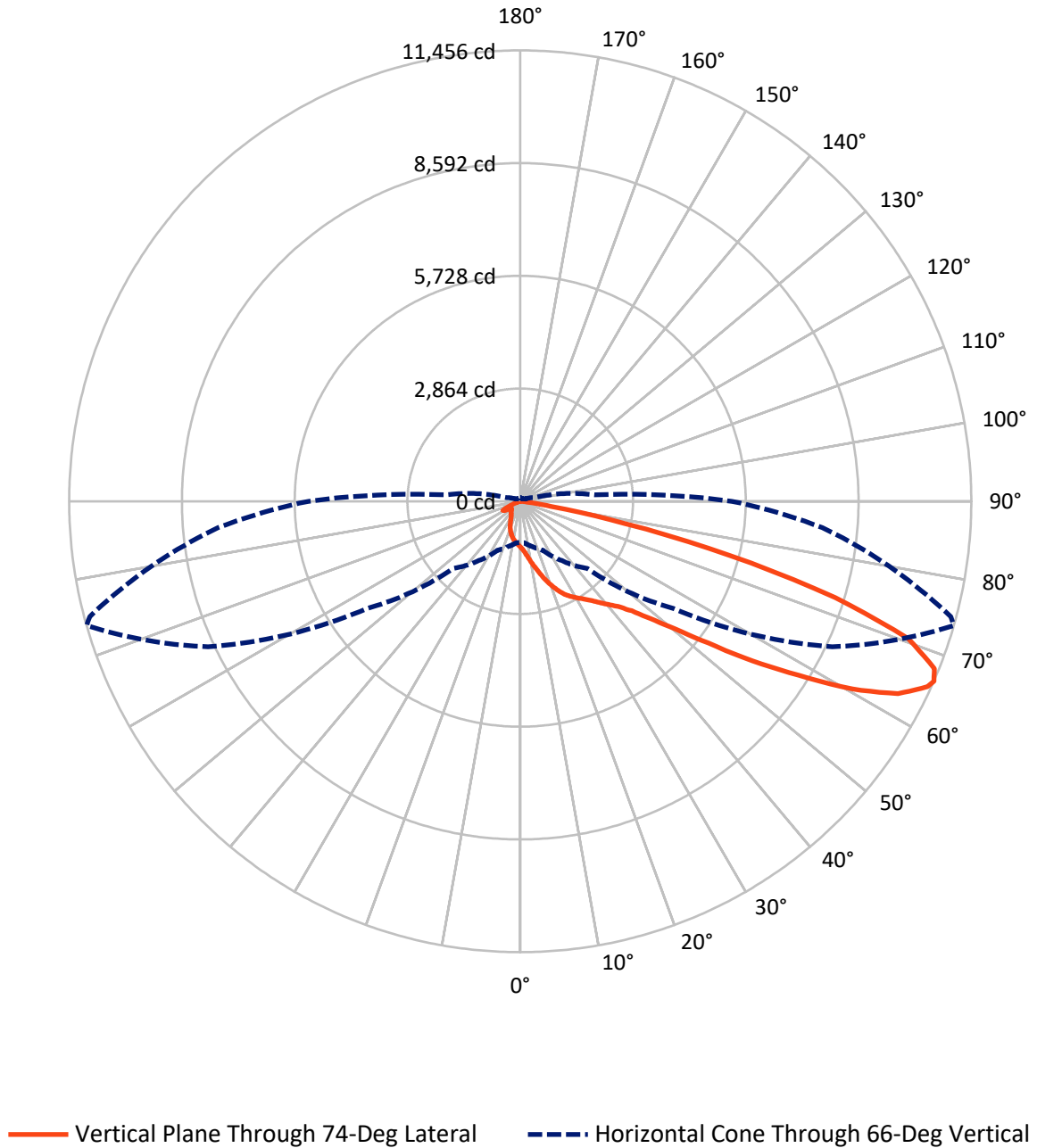
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1046.7	0.0	1046.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9630.3	0.0	9630.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	10677.0	0.0	10677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.1
10°-20°	364.7	3.4
20°-30°	696.0	6.5
30°-40°	1219.9	11.4
40°-50°	2091.8	19.6
50°-60°	2720.6	25.5
60°-70°	2462.8	23.1
70°-80°	950.3	8.9
80°-90°	57.2	0.5
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°	10677.0	100.0
0°-180°	10677.0	100.0

Coefficient of Utilization



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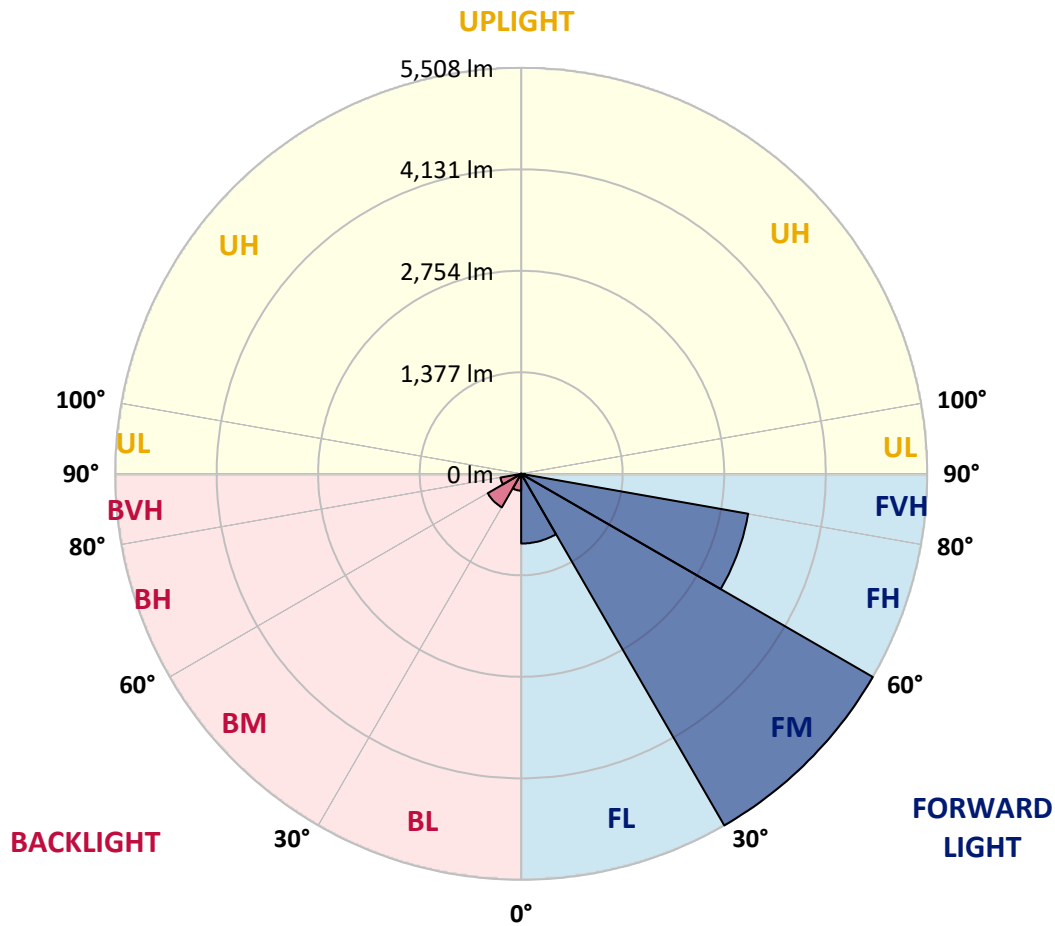
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	946.1	8.9			
FM	(30°-60°)	5507.7	51.6			
FH	(60°-80°)	3126.9	29.3			G2/5000
FVH	(80°-90°)	49.5	0.5			G1/100
BL	(0°-30°)	228.3	2.1	B1/500		
BM	(30°-60°)	524.6	4.9	B1/1000		
BH	(60°-80°)	286.1	2.7	B1/500		G1/500
BVH	(80°-90°)	7.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5
2.5°	1399.4	1387.8	1366.8	1364.8	1347.6	1326.5	1290.1	1251.7	1224.9	1221.1	1188.5
5°	1675.4	1669.6	1648.6	1635.1	1602.5	1552.7	1468.4	1384.0	1313.1	1305.4	1232.6
7.5°	1748.2	1752.1	1755.9	1769.3	1757.8	1734.8	1671.6	1552.7	1441.5	1424.3	1297.8
10°	1759.7	1755.9	1755.9	1773.2	1805.7	1838.3	1830.7	1729.1	1585.3	1564.2	1387.8
12.5°	1884.3	1890.1	1876.7	1869.0	1863.2	1880.5	1938.0	1893.9	1736.7	1719.5	1497.1
15°	2045.4	2043.4	2024.3	2024.3	2007.0	1978.3	2014.7	2047.3	1918.8	1897.7	1621.7
17.5°	2162.3	2170.0	2168.0	2179.5	2173.8	2135.4	2116.3	2183.4	2106.7	2079.9	1763.6
20°	2256.2	2277.3	2285.0	2321.4	2338.6	2311.8	2262.0	2304.1	2286.9	2262.0	1907.3
22.5°	2355.9	2373.1	2386.6	2449.8	2497.7	2492.0	2428.7	2419.2	2461.3	2438.3	2049.2
25°	2455.6	2463.2	2503.5	2580.2	2656.8	2676.0	2610.8	2536.1	2618.5	2597.4	2175.7
27.5°	2564.8	2568.7	2616.6	2710.5	2817.9	2858.1	2806.4	2668.4	2739.3	2739.3	2290.7
30°	2764.2	2802.5	2821.7	2906.0	3000.0	3055.6	2994.2	2808.3	2846.6	2863.9	2411.5
32.5°	3193.6	3199.3	3193.6	3230.0	3249.2	3281.8	3210.8	2965.5	2955.9	2975.1	2530.3
35°	3849.2	3826.2	3764.8	3711.2	3600.0	3538.6	3446.6	3166.8	3090.1	3116.9	2647.3
37.5°	4644.7	4612.1	4472.2	4307.3	4069.6	3824.3	3709.2	3412.1	3260.7	3295.2	2773.8
40°	5403.8	5382.7	5215.9	5012.7	4606.4	4186.6	3943.1	3619.1	3450.5	3463.9	2902.2
42.5°	6028.7	6024.9	5884.9	5672.2	5150.8	4577.6	4219.1	3822.3	3649.8	3670.9	3036.4
45°	6502.2	6465.8	6362.3	6208.9	5677.9	4984.0	4552.7	4131.0	3969.9	3994.9	3237.7
47.5°	6502.2	6507.9	6575.0	6559.7	6046.0	5365.5	4916.9	4520.1	4443.4	4466.4	3569.3
50°	5973.1	6026.8	6325.8	6576.9	6237.7	5662.6	5309.9	5007.0	5085.6	5120.1	4148.2
52.5°	4926.5	5016.6	5536.1	6109.2	6095.8	5812.1	5716.3	5626.2	5978.9	6040.2	5003.2
55°	3743.7	3803.2	4479.8	5233.2	5478.6	5689.4	6070.9	6412.1	7161.6	7148.2	5871.5
57.5°	2796.8	2852.4	3435.1	4270.9	4594.9	5158.4	6253.0	7311.1	8334.8	8386.5	6686.2
60°	2056.9	2099.0	2595.5	3281.8	3749.5	4345.7	6180.1	8196.7	9686.2	9626.8	7405.1
62.5°	1522.0	1545.0	1903.5	2350.1	2971.2	3540.5	5722.0	8802.5	10765.4	10644.7	7805.7
65°	1177.0	1184.7	1370.6	1608.3	2160.4	2752.7	5039.6	8894.5	11361.6	11233.1	7798.0
66°	1048.6	1054.3	1190.4	1374.4	1838.3	2409.6	4740.5	8746.9	11455.5	11319.4	7702.2
67.5°	879.9	876.0	956.5	1077.3	1380.2	1859.4	4209.6	8315.6	11344.3	11275.3	7395.5
70°	651.8	653.7	693.9	722.7	807.0	1029.4	3040.2	7213.4	10454.9	10451.0	6553.9
72.5°	483.1	488.8	519.5	525.2	504.1	557.8	1752.1	5737.3	8363.5	8365.4	4899.6
75°	362.3	371.9	381.5	385.3	366.1	352.7	791.7	3860.7	5501.6	5461.3	2773.8
77.5°	276.0	279.9	287.5	281.8	278.0	243.4	329.7	1882.4	2716.3	2474.7	899.0
80°	201.3	201.3	208.9	201.3	199.4	174.4	180.2	603.8	797.4	663.3	193.6
82.5°	126.5	124.6	130.4	128.4	124.6	111.2	105.4	168.7	184.0	164.9	93.9
85°	70.9	69.0	67.1	65.2	59.4	49.8	57.5	63.3	84.3	86.3	67.1
87.5°	24.9	24.9	23.0	21.1	17.3	17.3	21.1	21.1	30.7	30.7	34.5
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°	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5
2.5°	1173.2	1152.1	1121.4	1081.1	1052.4	1023.6	993.0	975.7	950.8	945.0	952.7
5°	1194.2	1155.9	1079.2	994.9	922.0	856.9	795.5	759.1	722.7	709.3	715.0
7.5°	1238.3	1173.2	1042.8	906.7	785.9	688.2	615.3	573.2	540.6	527.2	531.0
10°	1303.5	1203.8	1008.3	807.0	651.8	548.2	486.9	460.1	440.9	433.2	435.1
12.5°	1382.1	1247.9	964.2	707.3	536.7	446.6	417.9	412.1	408.3	404.5	406.4
15°	1470.3	1286.3	912.5	609.6	446.6	396.8	387.2	385.3	383.4	383.4	383.4
17.5°	1562.3	1320.8	854.9	517.6	389.1	366.1	360.4	360.4	360.4	362.3	362.3
20°	1648.6	1347.6	787.9	435.1	356.5	337.4	333.5	333.5	335.5	337.4	337.4
22.5°	1732.9	1359.1	709.3	377.6	329.7	312.5	306.7	306.7	306.7	308.6	308.6
25°	1805.7	1359.1	630.7	341.2	306.7	289.5	281.8	279.9	281.8	281.8	281.8
27.5°	1867.1	1353.3	554.0	316.3	283.7	266.5	258.8	256.9	260.7	262.6	262.6
30°	1932.3	1345.7	492.6	293.3	264.5	247.3	239.6	239.6	245.4	253.0	253.0
32.5°	1995.5	1351.4	444.7	274.1	245.4	231.9	224.3	226.2	237.7	249.2	249.2
35°	2062.6	1362.9	416.0	260.7	231.9	218.5	212.8	218.5	230.0	241.5	241.5
37.5°	2129.7	1376.3	398.7	249.2	220.4	207.0	203.2	210.9	224.3	235.8	237.7
40°	2200.6	1387.8	379.5	237.7	212.8	197.4	195.5	203.2	220.4	231.9	233.9
42.5°	2288.8	1410.9	356.5	228.1	205.1	185.9	187.9	193.6	210.9	228.1	230.0
45°	2461.3	1483.7	333.5	218.5	195.5	180.2	176.4	180.2	199.4	218.5	222.4
47.5°	2785.3	1648.6	308.6	208.9	185.9	176.4	161.0	164.9	182.1	203.2	205.1
50°	3406.4	1999.3	295.2	199.4	178.3	162.9	145.7	145.7	159.1	178.3	178.3
52.5°	4374.4	2628.1	302.9	191.7	168.7	149.5	132.3	130.4	138.0	151.4	151.4
55°	5419.1	3318.2	331.6	184.0	157.2	141.9	122.7	113.1	118.8	126.5	126.5
57.5°	6247.2	3665.1	410.2	180.2	143.8	136.1	111.2	97.8	103.5	111.2	111.2
60°	6611.5	3462.0	498.4	184.0	134.2	126.5	99.7	86.3	95.8	103.5	105.4
62.5°	6316.2	2850.5	534.8	174.4	120.8	113.1	97.8	80.5	92.0	97.8	99.7
65°	5677.9	2166.1	417.9	151.4	111.2	97.8	88.2	76.7	86.3	92.0	92.0
66°	5375.0	1888.2	356.5	139.9	107.3	92.0	84.3	76.7	84.3	88.2	90.1
67.5°	4905.4	1489.4	264.5	122.7	99.7	84.3	78.6	72.8	80.5	84.3	84.3
70°	3835.8	887.5	159.1	95.8	86.3	74.8	70.9	67.1	72.8	74.8	74.8
72.5°	2401.9	421.7	101.6	70.9	72.8	70.9	59.4	63.3	65.2	67.1	67.1
75°	1163.6	166.8	69.0	51.8	59.4	67.1	47.9	55.6	57.5	61.3	59.4
77.5°	324.0	80.5	44.1	38.3	51.8	51.8	36.4	44.1	51.8	65.2	59.4
80°	93.9	51.8	28.8	28.8	36.4	36.4	24.9	30.7	34.5	38.3	40.3
82.5°	65.2	34.5	19.2	21.1	21.1	23.0	15.3	15.3	19.2	19.2	21.1
85°	51.8	15.3	11.5	13.4	9.6	11.5	7.7	7.7	9.6	7.7	7.7
87.5°	21.1	7.7	7.7	7.7	5.8	5.8	3.8	1.9	1.9	1.9	1.9
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)