

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: P1211708

Luminaire Tested: **ARCH4-90-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211708
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: ARCH4-90-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11125 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' 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



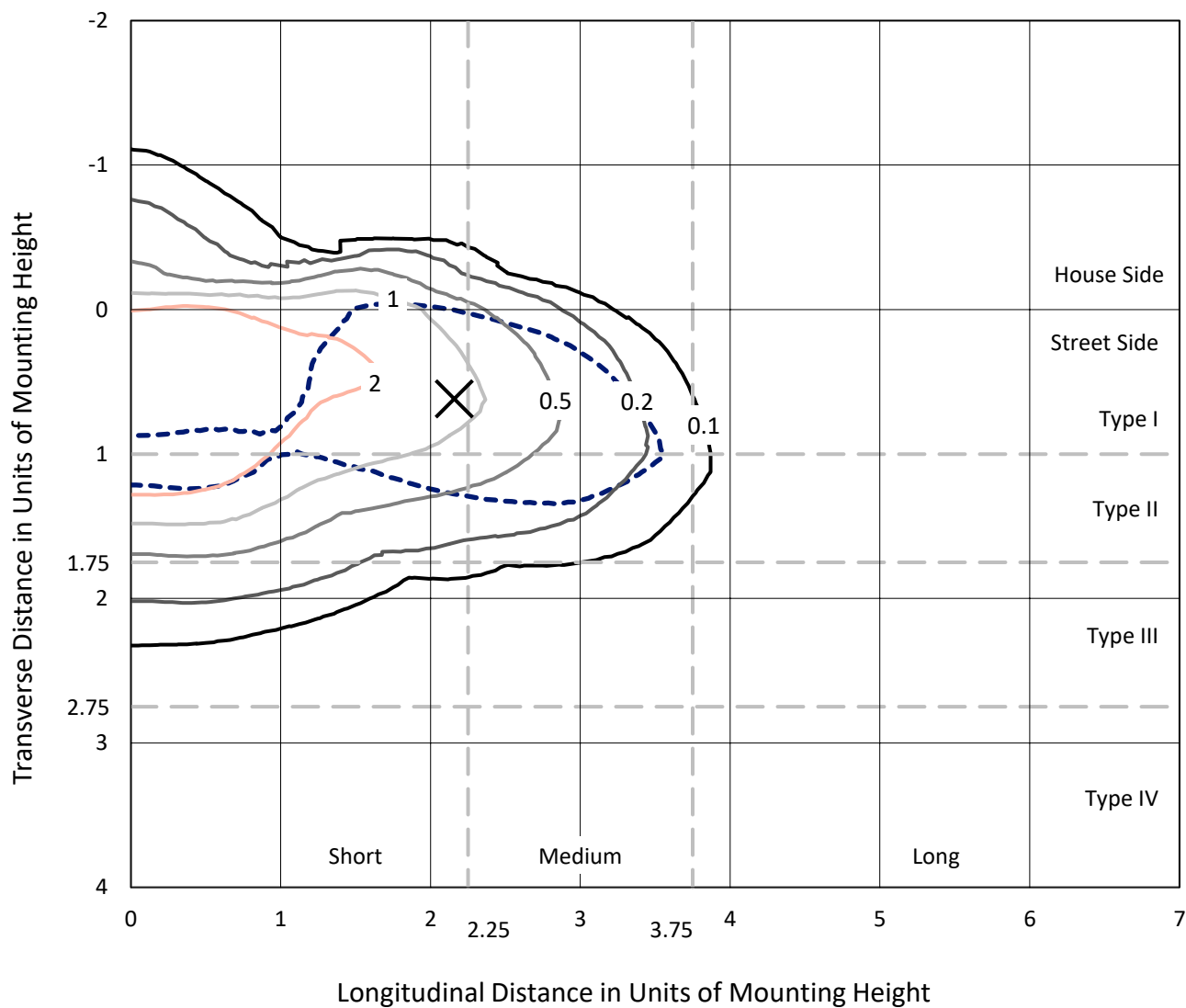
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Iso-Footcandle Lines of Horizontal Illumination

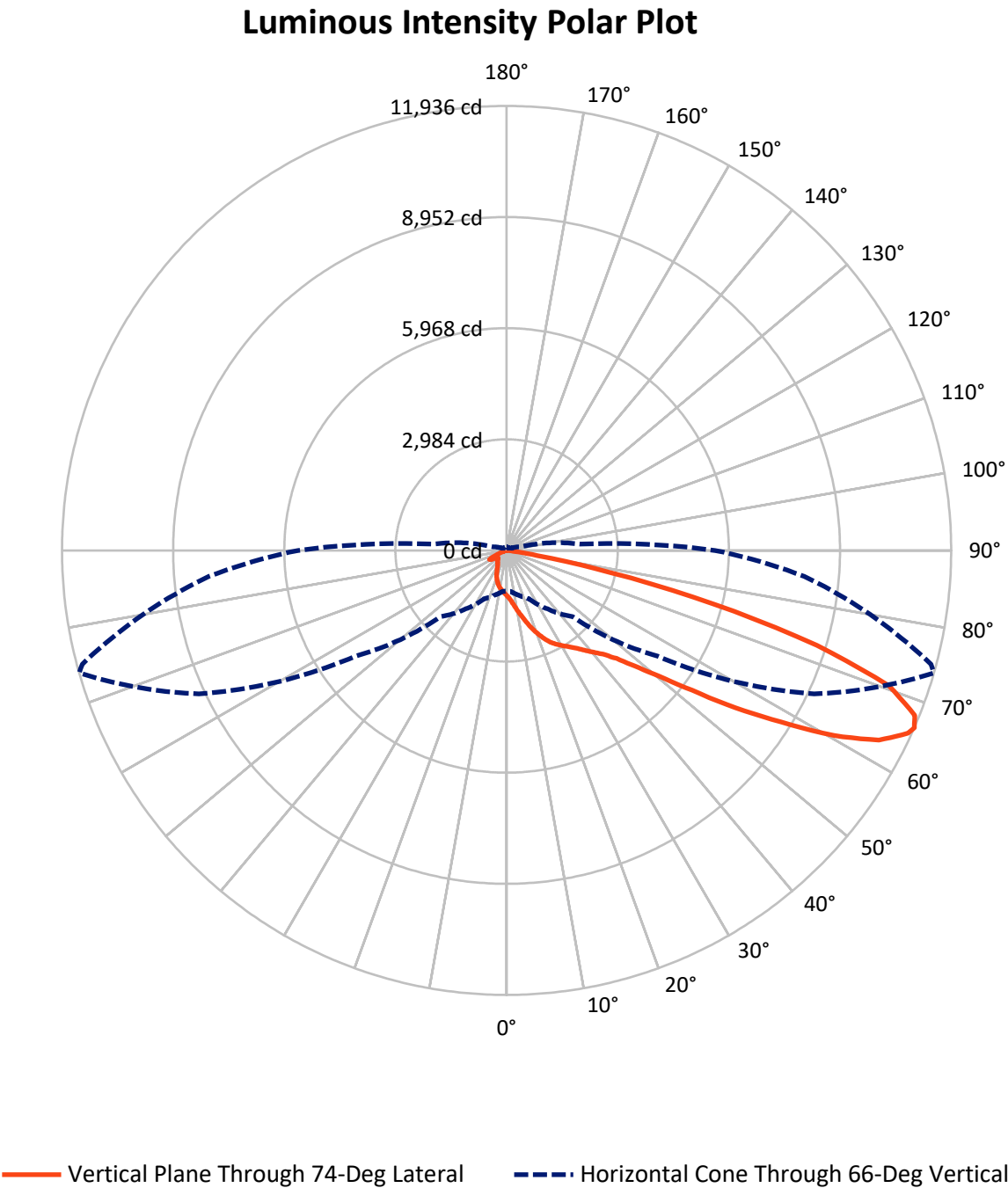
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1090.6	0.0	1090.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10034.4	0.0	10034.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	11125.0	0.0	11125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.1
10°-20°	380.0	3.4
20°-30°	725.2	6.5
30°-40°	1271.1	11.4
40°-50°	2179.6	19.6
50°-60°	2834.7	25.5
60°-70°	2566.1	23.1
70°-80°	990.1	8.9
80°-90°	59.6	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°	11125.0	100.0
0°-180°	11125.0	100.0

Coefficient of Utilization



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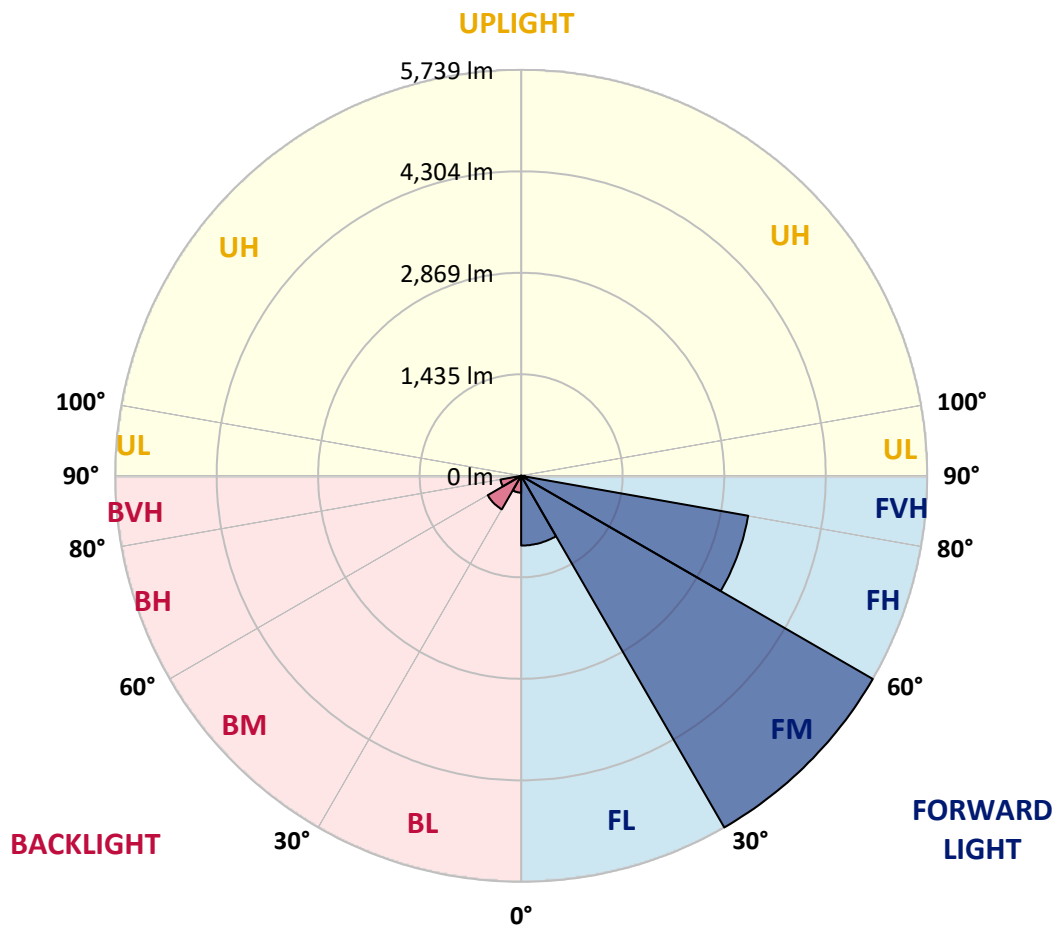
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.8	8.9			
FM	(30°-60°)	5738.8	51.6			
FH	(60°-80°)	3258.1	29.3			G2/5000
FVH	(80°-90°)	51.6	0.5			G1/100
BL	(0°-30°)	237.9	2.1	B1/500		
BM	(30°-60°)	546.6	4.9	B1/1000		
BH	(60°-80°)	298.2	2.7	B1/500		G1/500
BVH	(80°-90°)	8.0	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°	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4
2.5°	1458.1	1446.1	1424.1	1422.1	1404.1	1382.2	1344.2	1304.3	1276.3	1272.3	1238.4
5°	1745.7	1739.7	1717.7	1703.7	1669.8	1617.9	1530.0	1442.1	1368.2	1360.2	1284.3
7.5°	1821.6	1825.6	1829.6	1843.6	1831.6	1807.6	1741.7	1617.9	1502.0	1484.0	1352.2
10°	1833.6	1829.6	1829.6	1847.6	1881.5	1915.5	1907.5	1801.6	1651.8	1629.8	1446.1
12.5°	1963.4	1969.4	1955.4	1947.4	1941.4	1959.4	2019.3	1973.4	1809.6	1791.6	1559.9
15°	2131.2	2129.2	2109.2	2109.2	2091.2	2061.3	2099.2	2133.2	1999.3	1977.4	1689.8
17.5°	2253.0	2261.0	2259.0	2271.0	2265.0	2225.0	2205.1	2275.0	2195.1	2167.1	1837.6
20°	2350.9	2372.9	2380.8	2418.8	2436.8	2408.8	2356.9	2400.8	2382.8	2356.9	1987.4
22.5°	2454.7	2472.7	2486.7	2552.6	2602.5	2596.6	2530.6	2520.7	2564.6	2540.6	2135.2
25°	2558.6	2566.6	2608.5	2688.4	2768.3	2788.3	2720.4	2642.5	2728.4	2706.4	2267.0
27.5°	2672.5	2676.5	2726.4	2824.3	2936.1	2978.1	2924.1	2780.3	2854.2	2854.2	2386.8
30°	2880.2	2920.1	2940.1	3028.0	3125.9	3183.8	3119.9	2926.1	2966.1	2984.0	2512.7
32.5°	3327.6	3333.6	3327.6	3365.5	3385.5	3419.5	3345.6	3089.9	3079.9	3099.9	2636.5
35°	4010.7	3986.7	3922.8	3866.9	3751.0	3687.1	3591.2	3299.6	3219.7	3247.7	2758.3
37.5°	4839.6	4805.6	4659.8	4488.0	4240.4	3984.7	3864.9	3555.3	3397.5	3433.4	2890.2
40°	5630.5	5608.6	5434.8	5223.1	4799.6	4362.2	4108.6	3771.0	3595.2	3609.2	3024.0
42.5°	6281.7	6277.7	6131.9	5910.2	5366.9	4769.7	4396.2	3982.7	3803.0	3824.9	3163.8
45°	6775.0	6737.1	6629.2	6469.4	5916.2	5193.1	4743.7	4304.3	4136.5	4162.5	3373.5
47.5°	6775.0	6781.0	6850.9	6834.9	6299.6	5590.6	5123.2	4709.8	4629.9	4653.8	3719.1
50°	6223.7	6279.7	6591.3	6852.9	6499.4	5900.2	5532.7	5217.1	5299.0	5334.9	4322.3
52.5°	5133.2	5227.1	5768.4	6365.6	6351.6	6056.0	5956.1	5862.2	6229.7	6293.7	5213.1
55°	3900.8	3962.7	4667.8	5452.8	5708.4	5928.1	6325.6	6681.1	7462.1	7448.1	6117.9
57.5°	2914.1	2972.1	3579.3	4450.1	4787.7	5374.9	6515.4	7617.9	8684.5	8738.4	6966.8
60°	2143.2	2187.1	2704.4	3419.5	3906.8	4528.0	6439.5	8540.7	10092.6	10030.7	7715.8
62.5°	1585.9	1609.9	1983.4	2448.8	3095.9	3689.1	5962.1	9171.8	11217.1	11091.3	8133.2
65°	1226.4	1234.4	1428.1	1675.8	2251.0	2868.2	5251.0	9267.7	11838.3	11704.5	8125.2
66°	1092.6	1098.5	1240.4	1432.1	1915.5	2510.7	4939.5	9113.9	11936.2	11794.4	8025.4
67.5°	916.8	912.8	996.7	1122.5	1438.1	1937.4	4386.2	8664.5	11820.3	11748.4	7705.8
70°	679.1	681.1	723.0	753.0	840.9	1072.6	3167.8	7516.0	10893.6	10889.6	6828.9
72.5°	503.3	509.3	541.3	547.3	525.3	581.2	1825.6	5978.1	8714.4	8716.4	5105.2
75°	377.5	387.5	397.5	401.5	381.5	367.5	824.9	4022.7	5732.4	5690.5	2890.2
77.5°	287.6	291.6	299.6	293.6	289.6	253.7	343.5	1961.4	2830.2	2578.6	936.8
80°	209.7	209.7	217.7	209.7	207.7	181.8	187.8	629.2	830.9	691.1	201.7
82.5°	131.8	129.8	135.8	133.8	129.8	115.8	109.9	175.8	191.7	171.8	97.9
85°	73.9	71.9	69.9	67.9	61.9	51.9	59.9	65.9	87.9	89.9	69.9
87.5°	26.0	26.0	24.0	22.0	18.0	18.0	22.0	22.0	32.0	32.0	36.0
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°	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4
2.5°	1222.4	1200.4	1168.5	1126.5	1096.5	1066.6	1034.6	1016.7	990.7	984.7	992.7
5°	1244.4	1204.4	1124.5	1036.6	960.7	892.8	828.9	791.0	753.0	739.0	745.0
7.5°	1290.3	1222.4	1086.6	944.7	818.9	717.0	641.1	597.2	563.3	549.3	553.3
10°	1358.2	1254.3	1050.6	840.9	679.1	571.2	507.3	479.4	459.4	451.4	453.4
12.5°	1440.1	1300.3	1004.7	737.0	559.3	465.4	435.4	429.4	425.4	421.4	423.4
15°	1532.0	1340.2	950.7	635.2	465.4	413.5	403.5	401.5	399.5	399.5	399.5
17.5°	1627.8	1376.2	890.8	539.3	405.5	381.5	375.5	375.5	375.5	377.5	377.5
20°	1717.7	1404.1	820.9	453.4	371.5	351.5	347.5	347.5	349.5	351.5	351.5
22.5°	1805.6	1416.1	739.0	393.5	343.5	325.6	319.6	319.6	319.6	321.6	321.6
25°	1881.5	1416.1	657.1	355.5	319.6	301.6	293.6	291.6	293.6	293.6	293.6
27.5°	1945.4	1410.1	577.2	329.6	295.6	277.6	269.6	267.6	271.6	273.6	273.6
30°	2013.3	1402.1	513.3	305.6	275.6	257.7	249.7	249.7	255.7	263.7	263.7
32.5°	2079.2	1408.1	463.4	285.6	255.7	241.7	233.7	235.7	247.7	259.7	259.7
35°	2149.2	1420.1	433.4	271.6	241.7	227.7	221.7	227.7	239.7	251.7	251.7
37.5°	2219.1	1434.1	415.4	259.7	229.7	215.7	211.7	219.7	233.7	245.7	247.7
40°	2293.0	1446.1	395.5	247.7	221.7	205.7	203.7	211.7	229.7	241.7	243.7
42.5°	2384.8	1470.1	371.5	237.7	213.7	193.7	195.7	201.7	219.7	237.7	239.7
45°	2564.6	1546.0	347.5	227.7	203.7	187.8	183.8	187.8	207.7	227.7	231.7
47.5°	2902.2	1717.7	321.6	217.7	193.7	183.8	167.8	171.8	189.7	211.7	213.7
50°	3549.3	2083.2	307.6	207.7	185.8	169.8	151.8	151.8	165.8	185.8	185.8
52.5°	4558.0	2738.4	315.6	199.7	175.8	155.8	137.8	135.8	143.8	157.8	157.8
55°	5646.5	3457.4	345.5	191.7	163.8	147.8	127.8	117.8	123.8	131.8	131.8
57.5°	6509.4	3818.9	427.4	187.8	149.8	141.8	115.8	101.9	107.9	115.8	115.8
60°	6888.9	3607.2	519.3	191.7	139.8	131.8	103.9	89.9	99.9	107.9	109.9
62.5°	6581.3	2970.1	557.3	181.8	125.8	117.8	101.9	83.9	95.9	101.9	103.9
65°	5916.2	2257.0	435.4	157.8	115.8	101.9	91.9	79.9	89.9	95.9	95.9
66°	5600.6	1967.4	371.5	145.8	111.9	95.9	87.9	79.9	87.9	91.9	93.9
67.5°	5111.2	1551.9	275.6	127.8	103.9	87.9	81.9	75.9	83.9	87.9	87.9
70°	3996.7	924.8	165.8	99.9	89.9	77.9	73.9	69.9	75.9	77.9	77.9
72.5°	2502.7	439.4	105.9	73.9	75.9	73.9	61.9	65.9	67.9	69.9	69.9
75°	1212.4	173.8	71.9	53.9	61.9	69.9	49.9	57.9	59.9	63.9	61.9
77.5°	337.6	83.9	45.9	39.9	53.9	53.9	37.9	45.9	53.9	67.9	61.9
80°	97.9	53.9	30.0	30.0	37.9	37.9	26.0	32.0	36.0	39.9	41.9
82.5°	67.9	36.0	20.0	22.0	22.0	24.0	16.0	16.0	20.0	20.0	22.0
85°	53.9	16.0	12.0	14.0	10.0	12.0	8.0	8.0	10.0	8.0	8.0
87.5°	22.0	8.0	8.0	8.0	6.0	6.0	4.0	2.0	2.0	2.0	2.0
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)