

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: P1210820

Luminaire Tested: **ARCH3-80-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210820
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: ARCH3-80-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 650mA 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: 9576 lumens
Efficiency: N/A
Efficacy: 116.9 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): 81.9
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

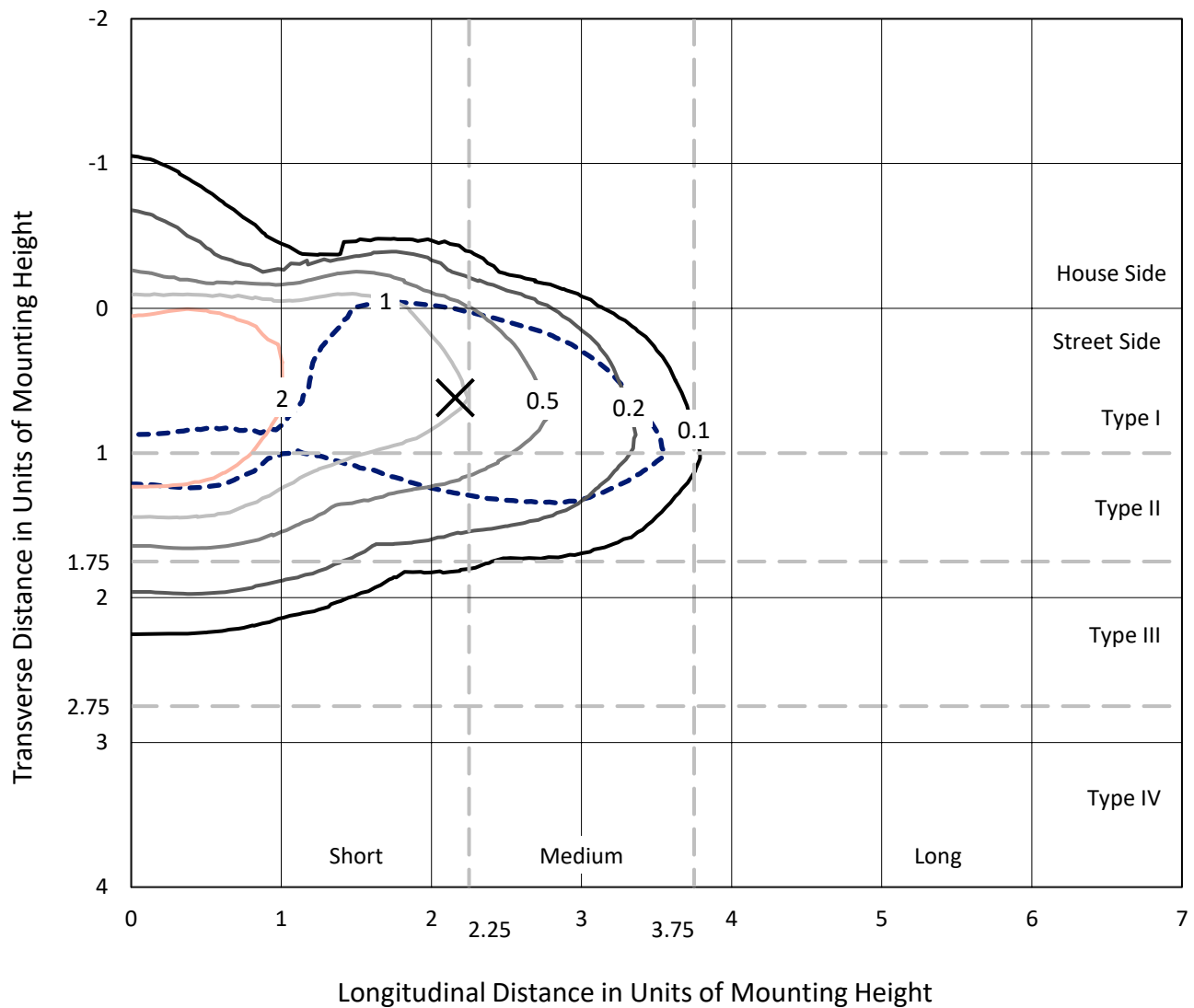


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Iso-Footcandle Lines of Horizontal Illumination

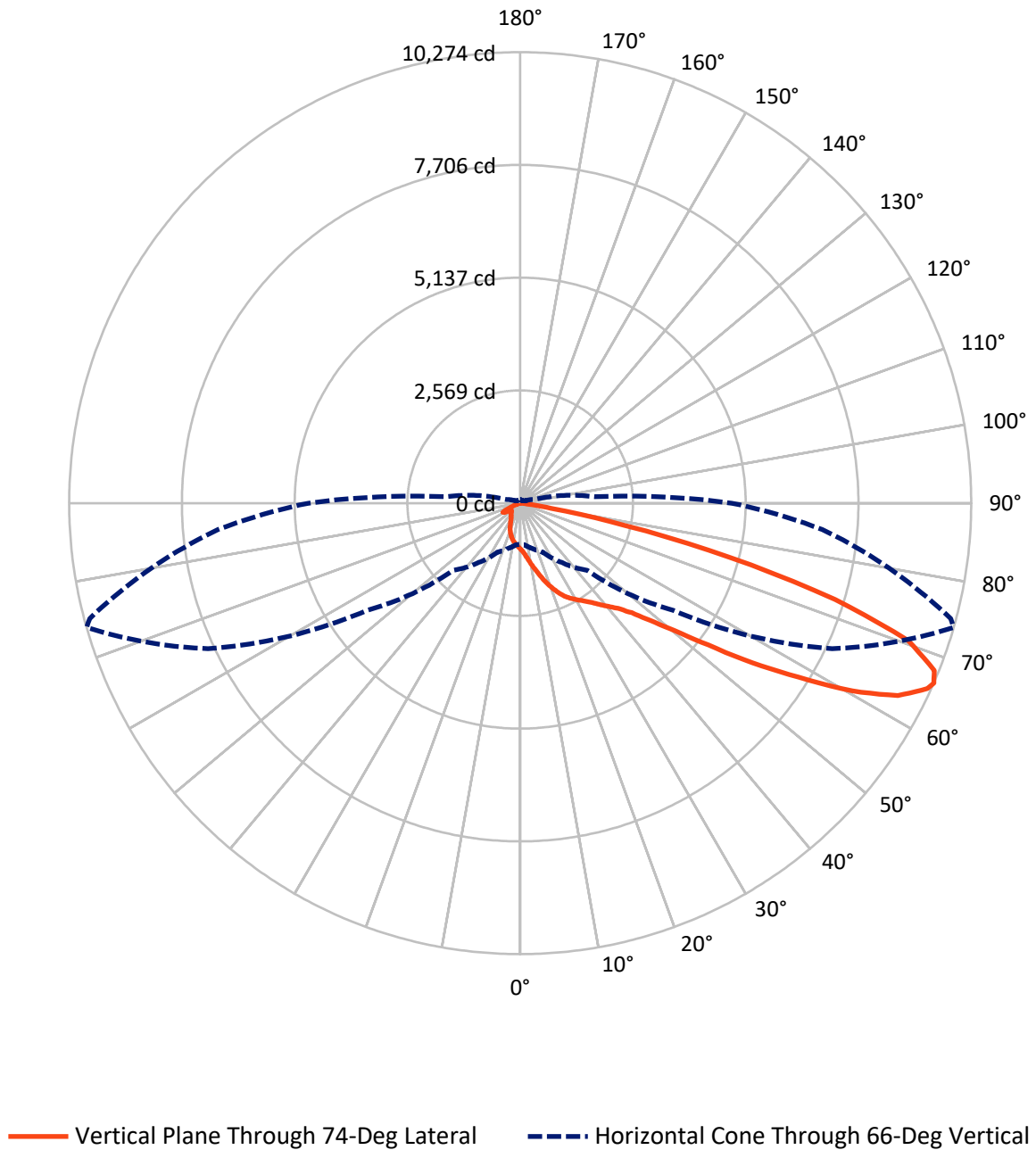
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	938.8	0.0	938.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8637.3	0.0	8637.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	9576.0	0.0	9576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.1
10°-20°	327.1	3.4
20°-30°	624.2	6.5
30°-40°	1094.1	11.4
40°-50°	1876.1	19.6
50°-60°	2440.0	25.5
60°-70°	2208.8	23.1
70°-80°	852.3	8.9
80°-90°	51.3	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°	9576.0	100.0
0°-180°	9576.0	100.0

Coefficient of Utilization



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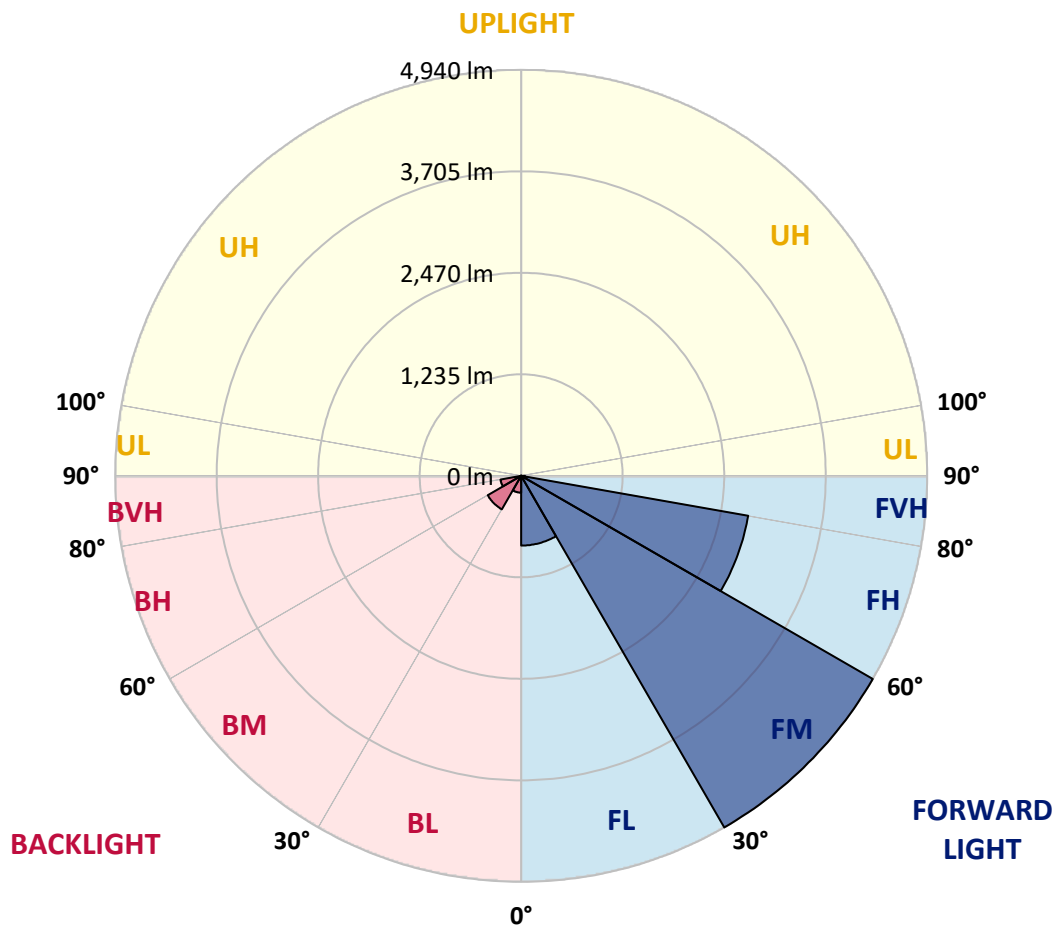
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.6	8.9			
FM	(30°-60°)	4939.8	51.6			
FH	(60°-80°)	2804.5	29.3			G2/5000
FVH	(80°-90°)	44.4	0.5			G1/100
BL	(0°-30°)	204.8	2.1	B1/500		
BM	(30°-60°)	470.5	4.9	B1/1000		
BH	(60°-80°)	256.6	2.7	B1/500		G1/500
BVH	(80°-90°)	6.9	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°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1255.1	1244.7	1225.8	1224.1	1208.6	1189.7	1157.1	1122.7	1098.6	1095.2	1065.9
5°	1502.6	1497.5	1478.6	1466.5	1437.3	1392.6	1316.9	1241.3	1177.7	1170.8	1105.5
7.5°	1568.0	1571.4	1574.8	1586.9	1576.6	1555.9	1499.2	1392.6	1292.9	1277.4	1163.9
10°	1578.3	1574.8	1574.8	1590.3	1619.5	1648.8	1641.9	1550.8	1421.8	1402.9	1244.7
12.5°	1690.0	1695.2	1683.1	1676.3	1671.1	1686.6	1738.2	1698.6	1557.6	1542.2	1342.7
15°	1834.4	1832.7	1815.5	1815.5	1800.1	1774.3	1806.9	1836.2	1721.0	1702.1	1454.5
17.5°	1939.3	1946.2	1944.5	1954.8	1949.6	1915.2	1898.1	1958.2	1889.5	1865.4	1581.7
20°	2023.6	2042.5	2049.3	2082.0	2097.5	2073.4	2028.7	2066.5	2051.1	2028.7	1710.7
22.5°	2113.0	2128.4	2140.5	2197.2	2240.2	2235.0	2178.3	2169.7	2207.5	2186.9	1837.9
25°	2202.4	2209.2	2245.3	2314.1	2382.9	2400.1	2341.6	2274.6	2348.5	2329.6	1951.3
27.5°	2300.4	2303.8	2346.8	2431.0	2527.3	2563.4	2517.0	2393.2	2456.8	2456.8	2054.5
30°	2479.2	2513.5	2530.7	2606.4	2690.6	2740.5	2685.5	2518.7	2553.1	2568.6	2162.8
32.5°	2864.3	2869.4	2864.3	2896.9	2914.1	2943.4	2879.7	2659.7	2651.1	2668.3	2269.4
35°	3452.3	3431.6	3376.6	3328.5	3228.7	3173.7	3091.2	2840.2	2771.4	2795.5	2374.3
37.5°	4165.7	4136.5	4011.0	3863.2	3650.0	3429.9	3326.7	3060.3	2924.4	2955.4	2487.8
40°	4846.6	4827.7	4678.1	4495.8	4131.4	3754.8	3536.5	3245.9	3094.6	3106.7	2602.9
42.5°	5407.0	5403.6	5278.1	5087.3	4619.6	4105.6	3784.1	3428.2	3273.4	3292.4	2723.3
45°	5831.7	5799.0	5706.2	5568.6	5092.4	4470.0	4083.2	3705.0	3560.6	3582.9	2903.8
47.5°	5831.7	5836.8	5897.0	5883.3	5422.5	4812.2	4409.9	4054.0	3985.2	4005.8	3201.2
50°	5357.2	5405.3	5673.5	5898.7	5594.4	5078.7	4762.3	4490.7	4561.2	4592.1	3720.5
52.5°	4418.5	4499.3	4965.2	5479.2	5467.2	5212.8	5126.8	5046.0	5362.3	5417.4	4487.2
55°	3357.7	3411.0	4017.9	4693.5	4913.6	5102.7	5444.9	5750.9	6423.1	6411.1	5266.1
57.5°	2508.4	2558.2	3080.9	3830.5	4121.0	4626.5	5608.2	6557.2	7475.3	7521.7	5996.7
60°	1844.8	1882.6	2327.9	2943.4	3362.9	3897.5	5542.9	7351.5	8687.4	8634.1	6641.5
62.5°	1365.1	1385.7	1707.2	2107.8	2664.8	3175.5	5132.0	7894.8	9655.3	9547.0	7000.8
65°	1055.6	1062.5	1229.3	1442.4	1937.6	2468.8	4519.9	7977.3	10190.0	10074.8	6993.9
66°	940.4	945.6	1067.7	1232.7	1648.8	2161.1	4251.7	7844.9	10274.2	10152.2	6907.9
67.5°	789.1	785.7	857.9	966.2	1237.9	1667.7	3775.5	7458.1	10174.5	10112.6	6632.9
70°	584.5	586.3	622.4	648.2	723.8	923.2	2726.7	6469.5	9376.8	9373.3	5878.1
72.5°	433.3	438.4	465.9	471.1	452.2	500.3	1571.4	5145.7	7501.1	7502.8	4394.4
75°	324.9	333.5	342.1	345.6	328.4	316.3	710.0	3462.6	4934.2	4898.1	2487.8
77.5°	247.6	251.0	257.9	252.7	249.3	218.3	295.7	1688.3	2436.2	2219.6	806.3
80°	180.5	180.5	187.4	180.5	178.8	156.5	161.6	541.6	715.2	594.9	173.6
82.5°	113.5	111.8	116.9	115.2	111.8	99.7	94.6	151.3	165.0	147.9	84.2
85°	63.6	61.9	60.2	58.5	53.3	44.7	51.6	56.7	75.6	77.4	60.2
87.5°	22.4	22.4	20.6	18.9	15.5	15.5	18.9	18.9	27.5	27.5	30.9
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°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1052.2	1033.3	1005.8	969.7	943.9	918.1	890.6	875.1	852.7	847.6	854.5
5°	1071.1	1036.7	967.9	892.3	827.0	768.5	713.5	680.8	648.2	636.1	641.3
7.5°	1110.6	1052.2	935.3	813.2	704.9	617.2	551.9	514.1	484.8	472.8	476.2
10°	1169.1	1079.7	904.3	723.8	584.5	491.7	436.7	412.6	395.4	388.6	390.3
12.5°	1239.6	1119.2	864.8	634.4	481.4	400.6	374.8	369.6	366.2	362.8	364.5
15°	1318.7	1153.6	818.4	546.7	400.6	355.9	347.3	345.6	343.8	343.8	343.8
17.5°	1401.2	1184.6	766.8	464.2	349.0	328.4	323.2	323.2	323.2	324.9	324.9
20°	1478.6	1208.6	706.6	390.3	319.8	302.6	299.1	299.1	300.9	302.6	302.6
22.5°	1554.2	1218.9	636.1	338.7	295.7	280.2	275.1	275.1	275.1	276.8	276.8
25°	1619.5	1218.9	565.6	306.0	275.1	259.6	252.7	251.0	252.7	252.7	252.7
27.5°	1674.5	1213.8	496.9	283.7	254.4	239.0	232.1	230.4	233.8	235.5	235.5
30°	1733.0	1206.9	441.8	263.0	237.3	221.8	214.9	214.9	220.1	226.9	226.9
32.5°	1789.7	1212.1	398.9	245.9	220.1	208.0	201.2	202.9	213.2	223.5	223.5
35°	1849.9	1222.4	373.1	233.8	208.0	196.0	190.8	196.0	206.3	216.6	216.6
37.5°	1910.1	1234.4	357.6	223.5	197.7	185.7	182.2	189.1	201.2	211.5	213.2
40°	1973.7	1244.7	340.4	213.2	190.8	177.1	175.4	182.2	197.7	208.0	209.7
42.5°	2052.8	1265.4	319.8	204.6	184.0	166.8	168.5	173.6	189.1	204.6	206.3
45°	2207.5	1330.7	299.1	196.0	175.4	161.6	158.2	161.6	178.8	196.0	199.4
47.5°	2498.1	1478.6	276.8	187.4	166.8	158.2	144.4	147.9	163.3	182.2	184.0
50°	3055.1	1793.2	264.8	178.8	159.9	146.1	130.7	130.7	142.7	159.9	159.9
52.5°	3923.3	2357.1	271.6	171.9	151.3	134.1	118.6	116.9	123.8	135.8	135.8
55°	4860.3	2976.0	297.4	165.0	141.0	127.2	110.0	101.4	106.6	113.5	113.5
57.5°	5603.0	3287.2	367.9	161.6	128.9	122.1	99.7	87.7	92.8	99.7	99.7
60°	5929.7	3105.0	447.0	165.0	120.3	113.5	89.4	77.4	86.0	92.8	94.6
62.5°	5664.9	2556.5	479.7	156.5	108.3	101.4	87.7	72.2	82.5	87.7	89.4
65°	5092.4	1942.8	374.8	135.8	99.7	87.7	79.1	68.8	77.4	82.5	82.5
66°	4820.8	1693.5	319.8	125.5	96.3	82.5	75.6	68.8	75.6	79.1	80.8
67.5°	4399.6	1335.9	237.3	110.0	89.4	75.6	70.5	65.3	72.2	75.6	75.6
70°	3440.2	796.0	142.7	86.0	77.4	67.1	63.6	60.2	65.3	67.1	67.1
72.5°	2154.2	378.2	91.1	63.6	65.3	63.6	53.3	56.7	58.5	60.2	60.2
75°	1043.6	149.6	61.9	46.4	53.3	60.2	43.0	49.9	51.6	55.0	53.3
77.5°	290.6	72.2	39.5	34.4	46.4	46.4	32.7	39.5	46.4	58.5	53.3
80°	84.2	46.4	25.8	25.8	32.7	32.7	22.4	27.5	30.9	34.4	36.1
82.5°	58.5	30.9	17.2	18.9	18.9	20.6	13.8	13.8	17.2	17.2	18.9
85°	46.4	13.8	10.3	12.0	8.6	10.3	6.9	6.9	8.6	6.9	6.9
87.5°	18.9	6.9	6.9	6.9	5.2	5.2	3.4	1.7	1.7	1.7	1.7
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)