

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: P1211050

Luminaire Tested: **ARCH4-150-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17811 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

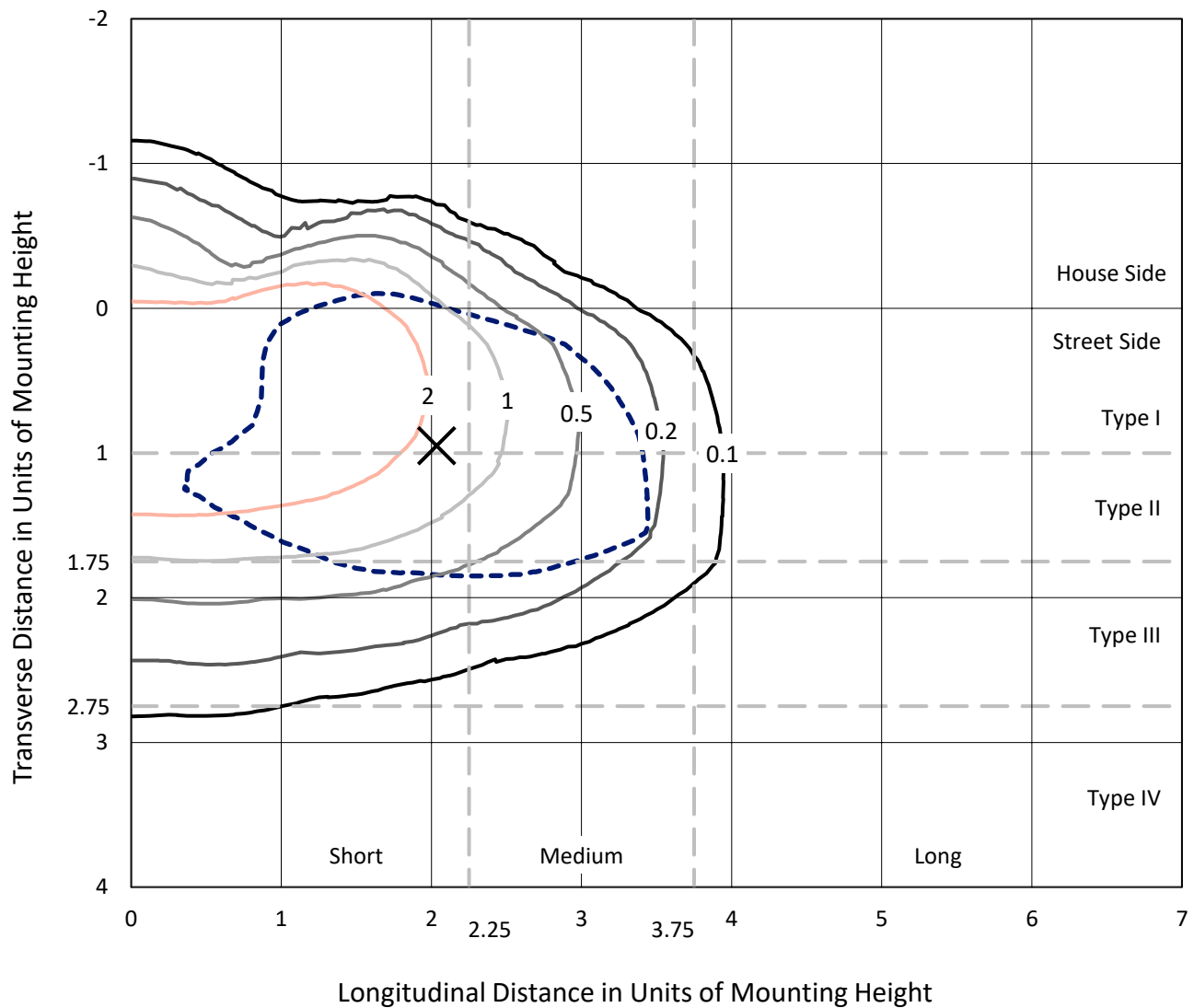
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

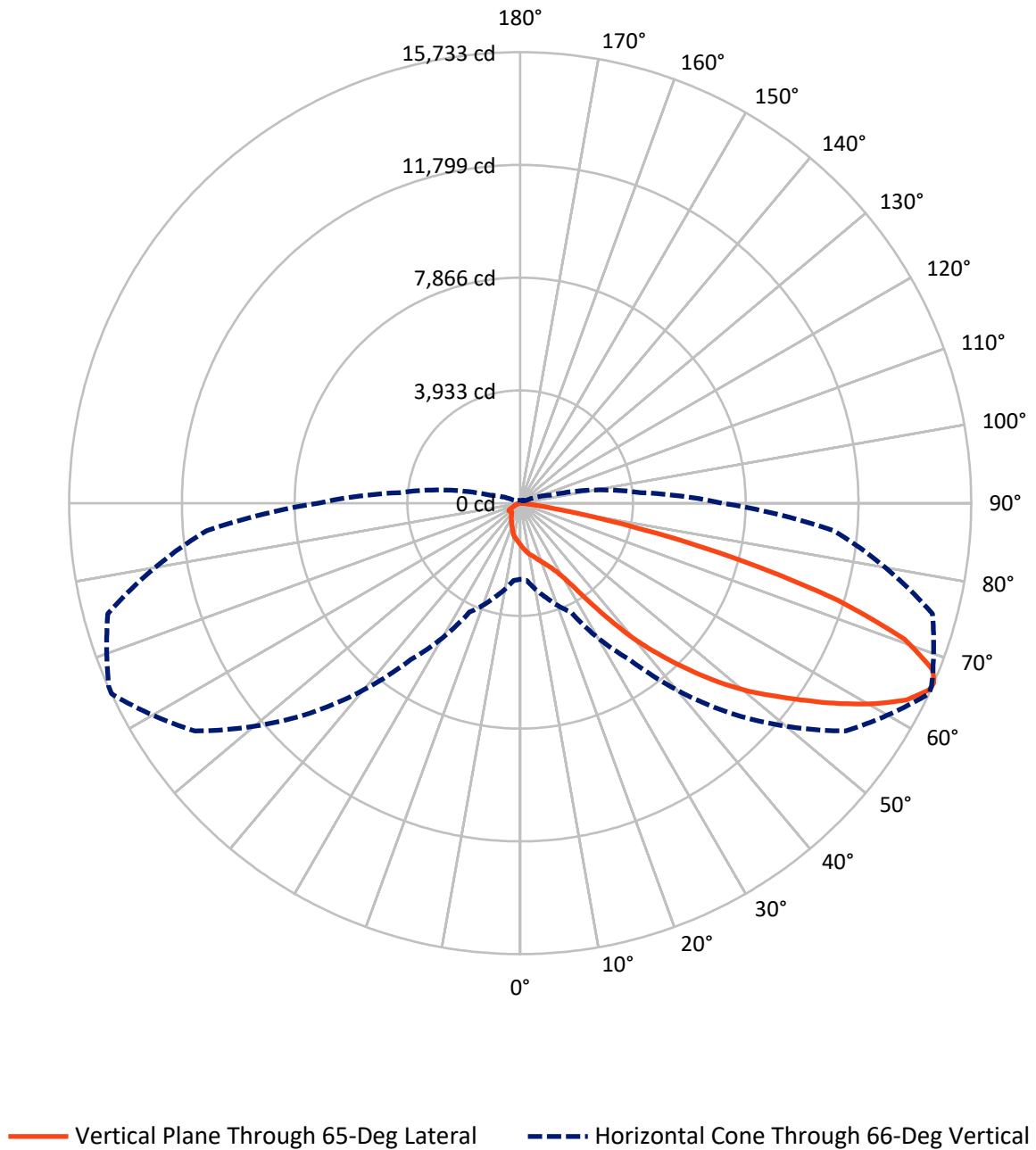
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2102.1	0.0	2102.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15708.9	0.0	15708.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	17811.0	0.0	17811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	0.8
10°-20°	407.2	2.3
20°-30°	745.4	4.2
30°-40°	1514.6	8.5
40°-50°	3198.4	18.0
50°-60°	4916.9	27.6
60°-70°	4949.2	27.8
70°-80°	1849.3	10.4
80°-90°	92.4	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°	17811.0	100.0
0°-180°	17811.0	100.0

Coefficient of Utilization



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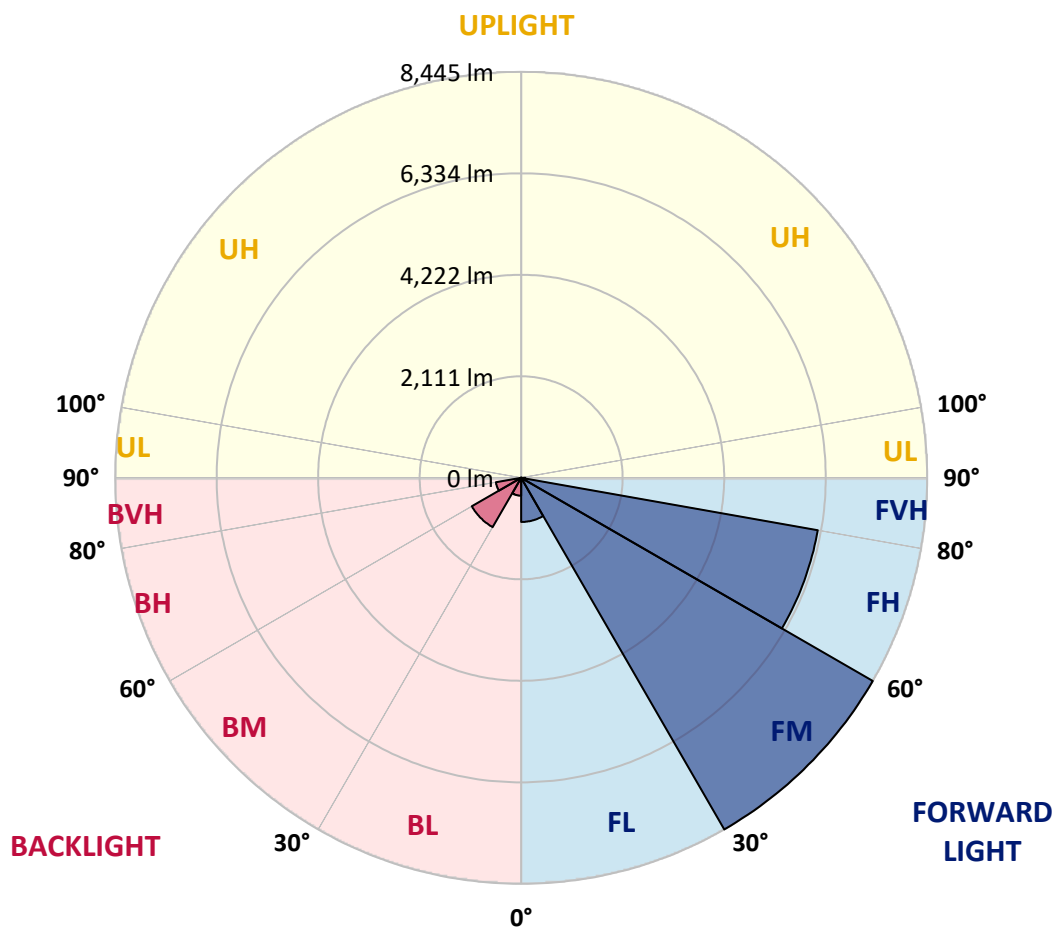
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	918.1	5.2			
FM	(30°-60°)	8444.7	47.4			
FH	(60°-80°)	6264.6	35.2			G3/7500
FVH	(80°-90°)	81.5	0.5			G1/100
BL	(0°-30°)	372.1	2.1	B1/500		
BM	(30°-60°)	1185.2	6.7	B2/2500		
BH	(60°-80°)	534.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1654.7	1657.9	1651.5	1638.5	1625.6	1609.5	1583.6	1541.6	1535.1	1506.0	1473.7
5°	1767.8	1774.3	1764.6	1761.4	1754.9	1732.3	1696.7	1635.3	1628.8	1570.7	1496.3
7.5°	1806.6	1816.3	1809.8	1809.8	1809.8	1800.1	1784.0	1729.0	1719.3	1645.0	1531.9
10°	1835.7	1842.1	1838.9	1851.8	1861.5	1855.1	1845.4	1813.1	1803.4	1729.0	1580.4
12.5°	1880.9	1884.2	1887.4	1893.9	1910.0	1916.5	1913.2	1884.2	1877.7	1826.0	1641.8
15°	1922.9	1922.9	1926.2	1955.3	1977.9	1990.8	1994.0	1971.4	1965.0	1922.9	1719.3
17.5°	1961.7	1965.0	1974.7	2007.0	2045.8	2071.6	2087.8	2078.1	2068.4	2036.1	1809.8
20°	2019.9	2026.4	2036.1	2081.3	2120.1	2162.1	2194.4	2191.2	2188.0	2165.3	1916.5
22.5°	2120.1	2126.5	2142.7	2184.7	2223.5	2275.2	2330.2	2326.9	2317.2	2301.1	2042.5
25°	2272.0	2272.0	2281.7	2317.2	2365.7	2427.1	2478.8	2488.5	2478.8	2469.1	2200.9
27.5°	2462.7	2465.9	2465.9	2504.7	2549.9	2627.5	2692.1	2701.8	2701.8	2692.1	2414.2
30°	2727.7	2718.0	2711.5	2743.8	2792.3	2905.4	3018.5	3037.9	3028.2	3044.4	2714.7
32.5°	3183.4	3167.2	3112.3	3118.7	3147.8	3302.9	3493.6	3561.5	3558.3	3587.3	3199.5
35°	3813.6	3781.3	3700.5	3632.6	3629.4	3797.4	4088.3	4343.6	4340.4	4440.5	3936.4
37.5°	4524.6	4566.6	4414.7	4298.3	4262.8	4395.3	4770.2	5322.8	5351.9	5526.4	4902.7
40°	5474.7	5500.6	5306.7	5141.9	4973.8	5022.3	5516.7	6376.4	6428.1	6622.0	5869.0
42.5°	6302.1	6327.9	6214.8	6014.5	5801.1	5710.7	6269.8	7333.0	7375.1	7643.3	6864.4
45°	6864.4	6883.8	6922.6	6942.0	6699.6	6512.2	7190.8	8315.5	8367.2	8677.5	7837.2
47.5°	7304.0	7320.1	7397.7	7591.6	7543.1	7394.4	8128.1	9336.8	9349.7	9695.5	8784.1
50°	7507.6	7546.3	7737.0	8034.3	8247.7	8289.7	9146.1	10303.1	10338.7	10668.3	9679.4
52.5°	7281.3	7294.3	7775.8	8334.9	8764.7	9191.3	10167.4	11198.3	11301.7	11547.4	10484.1
55°	6518.6	6612.3	7342.7	8325.2	9172.0	10047.8	11259.7	12164.6	12258.4	12413.5	11191.9
57.5°	5633.1	5736.5	6625.3	7908.3	9346.5	10839.6	12271.3	13192.4	13257.0	13299.0	11841.5
60°	4867.1	4964.1	5878.7	7110.0	9172.0	11398.7	13211.8	14213.6	14268.6	14155.5	12167.9
62.5°	3926.7	4023.6	4944.7	6053.2	8486.8	11511.8	13909.8	15121.8	15144.4	14837.4	11967.5
65°	2960.4	3025.0	3794.2	4744.3	7287.8	10910.7	14068.2	15687.3	15664.7	15034.5	11366.4
66°	2653.3	2708.3	3387.0	4194.9	6664.1	10361.3	13854.9	15732.6	15710.0	14889.1	10972.1
67.5°	2288.1	2304.3	2863.4	3432.2	5574.9	9194.6	13205.3	15525.8	15545.1	14488.3	10251.4
70°	1787.2	1784.0	2107.2	2388.3	3807.1	6541.2	11014.1	14223.3	14317.0	12975.8	8742.1
72.5°	1144.1	1105.3	1292.7	1460.8	2217.0	3797.4	8031.1	11592.6	11751.0	10193.2	6512.2
75°	681.9	643.1	688.4	730.4	1063.3	1826.0	4721.7	7888.9	8040.8	6534.8	3875.0
77.5°	510.6	494.5	497.7	462.2	471.8	685.1	2155.6	4169.1	4279.0	2676.0	1470.5
80°	391.1	349.0	326.4	342.6	310.3	271.5	801.5	1434.9	1502.8	633.4	307.0
82.5°	261.8	226.2	210.1	229.5	197.1	151.9	193.9	277.9	271.5	171.3	119.6
85°	135.7	116.3	116.3	116.3	100.2	74.3	84.0	113.1	113.1	90.5	71.1
87.5°	38.8	35.6	42.0	38.8	29.1	29.1	32.3	38.8	38.8	35.6	32.3
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°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1447.9	1434.9	1399.4	1373.5	1347.7	1325.1	1299.2	1292.7	1279.8	1283.0	1276.6
5°	1457.6	1422.0	1360.6	1302.4	1257.2	1218.4	1169.9	1150.5	1124.7	1115.0	1108.5
7.5°	1470.5	1418.8	1328.3	1247.5	1169.9	1092.4	1014.8	969.6	940.5	927.5	917.8
10°	1499.6	1431.7	1312.1	1186.1	1053.6	943.7	866.1	833.8	814.4	811.2	808.0
12.5°	1538.4	1451.1	1296.0	1108.5	934.0	830.6	782.1	772.4	769.2	769.2	765.9
15°	1596.5	1483.4	1270.1	1018.0	840.3	769.2	746.6	730.4	723.9	723.9	723.9
17.5°	1654.7	1522.2	1231.3	924.3	775.6	730.4	707.8	698.1	691.6	694.8	691.6
20°	1729.0	1567.4	1179.6	843.5	733.6	698.1	675.5	665.8	662.5	662.5	662.5
22.5°	1813.1	1619.2	1115.0	782.1	698.1	665.8	643.1	633.4	627.0	630.2	630.2
25°	1926.2	1683.8	1047.1	720.7	662.5	633.4	607.6	594.7	594.7	597.9	601.1
27.5°	2071.6	1761.4	979.2	681.9	630.2	601.1	572.0	559.1	562.3	568.8	568.8
30°	2284.9	1868.0	911.4	639.9	594.7	562.3	536.5	523.6	530.0	542.9	542.9
32.5°	2588.7	2042.5	853.2	591.4	542.9	507.4	481.5	471.8	488.0	513.9	513.9
35°	3131.7	2362.5	817.7	542.9	488.0	446.0	413.7	404.0	426.6	458.9	458.9
37.5°	3858.8	2876.3	830.6	500.9	442.8	394.3	358.7	345.8	362.0	391.1	400.7
40°	4670.0	3496.8	943.7	465.4	400.7	352.3	316.7	303.8	313.5	326.4	329.6
42.5°	5481.2	4156.1	1157.0	439.5	368.4	316.7	284.4	274.7	281.2	284.4	287.6
45°	6289.2	4809.0	1425.2	423.4	339.3	287.6	255.3	255.3	258.5	258.5	258.5
47.5°	7055.1	5445.6	1706.4	420.1	313.5	258.5	232.7	235.9	235.9	239.2	239.2
50°	7779.0	6014.5	1990.8	429.8	290.9	232.7	213.3	213.3	213.3	216.5	213.3
52.5°	8383.4	6512.2	2288.1	446.0	268.2	213.3	193.9	193.9	193.9	197.1	193.9
55°	8955.4	6964.6	2591.9	468.6	248.9	197.1	177.8	171.3	171.3	174.5	171.3
57.5°	9420.8	7265.2	2879.6	471.8	232.7	181.0	164.8	155.1	155.1	155.1	155.1
60°	9440.2	7090.7	2963.6	413.7	213.3	164.8	148.7	135.7	139.0	139.0	139.0
62.5°	8822.9	6172.8	2381.9	310.3	190.7	148.7	135.7	122.8	122.8	122.8	122.8
65°	7611.0	4802.5	1396.2	245.6	164.8	132.5	119.6	109.9	109.9	109.9	106.7
66°	7042.2	4211.1	1069.7	223.0	155.1	129.3	116.3	106.7	103.4	100.2	100.2
67.5°	6114.6	3328.8	669.0	197.1	142.2	119.6	106.7	97.0	93.7	90.5	90.5
70°	4605.4	2113.6	326.4	151.9	122.8	103.4	93.7	84.0	80.8	77.6	74.3
72.5°	3231.8	1237.8	171.3	116.3	100.2	90.5	80.8	71.1	67.9	64.6	64.6
75°	1826.0	597.9	113.1	84.0	80.8	74.3	67.9	58.2	54.9	54.9	54.9
77.5°	691.6	206.8	77.6	61.4	64.6	58.2	48.5	48.5	45.2	48.5	45.2
80°	181.0	90.5	48.5	45.2	48.5	42.0	35.6	38.8	38.8	38.8	38.8
82.5°	97.0	51.7	29.1	32.3	29.1	29.1	22.6	25.9	29.1	25.9	29.1
85°	67.9	25.9	16.2	16.2	12.9	12.9	9.7	12.9	16.2	12.9	12.9
87.5°	35.6	9.7	9.7	9.7	9.7	6.5	3.2	0.0	3.2	3.2	3.2
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)