

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: P1210666

Luminaire Tested: **ARCH3-190-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210666
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: ARCH3-190-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17821 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.4
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



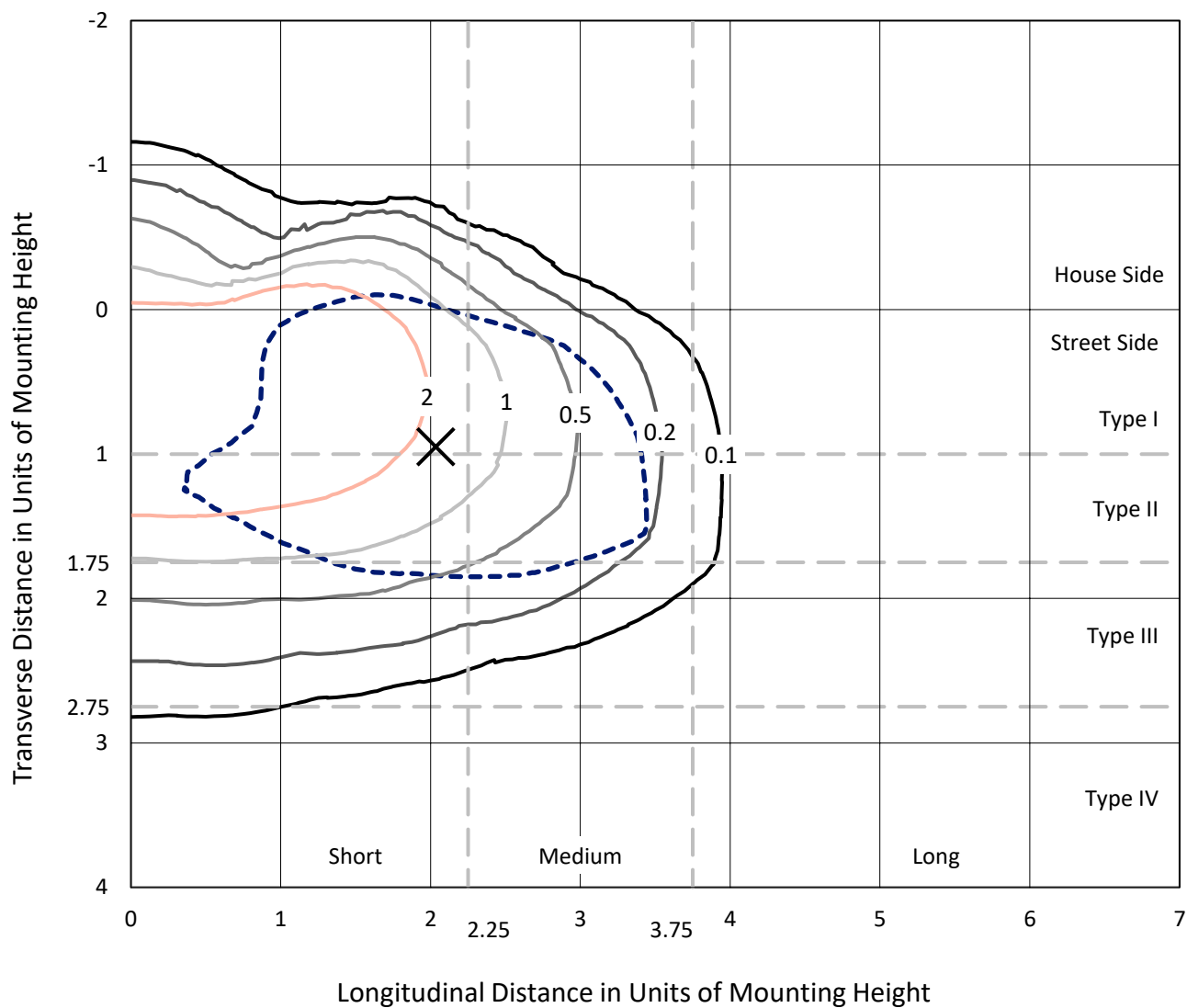
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

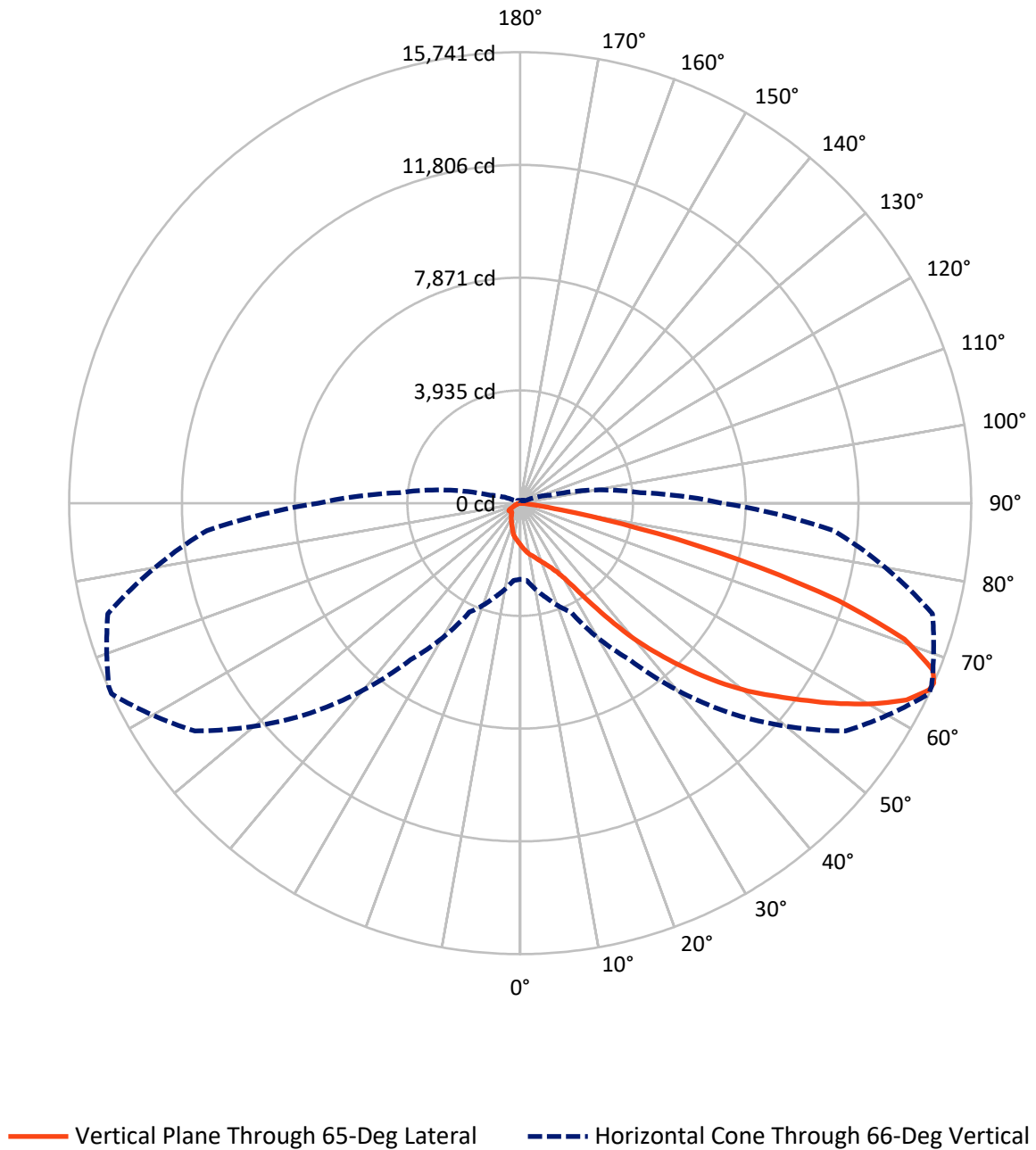
--- 1/2 Max cd



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	2103.2	0.0	2103.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15717.8	0.0	15717.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	17821.0	0.0	17821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	0.8
10°-20°	407.5	2.3
20°-30°	745.8	4.2
30°-40°	1515.4	8.5
40°-50°	3200.2	18.0
50°-60°	4919.7	27.6
60°-70°	4952.0	27.8
70°-80°	1850.3	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°	17821.0	100.0
0°-180°	17821.0	100.0

Coefficient of Utilization



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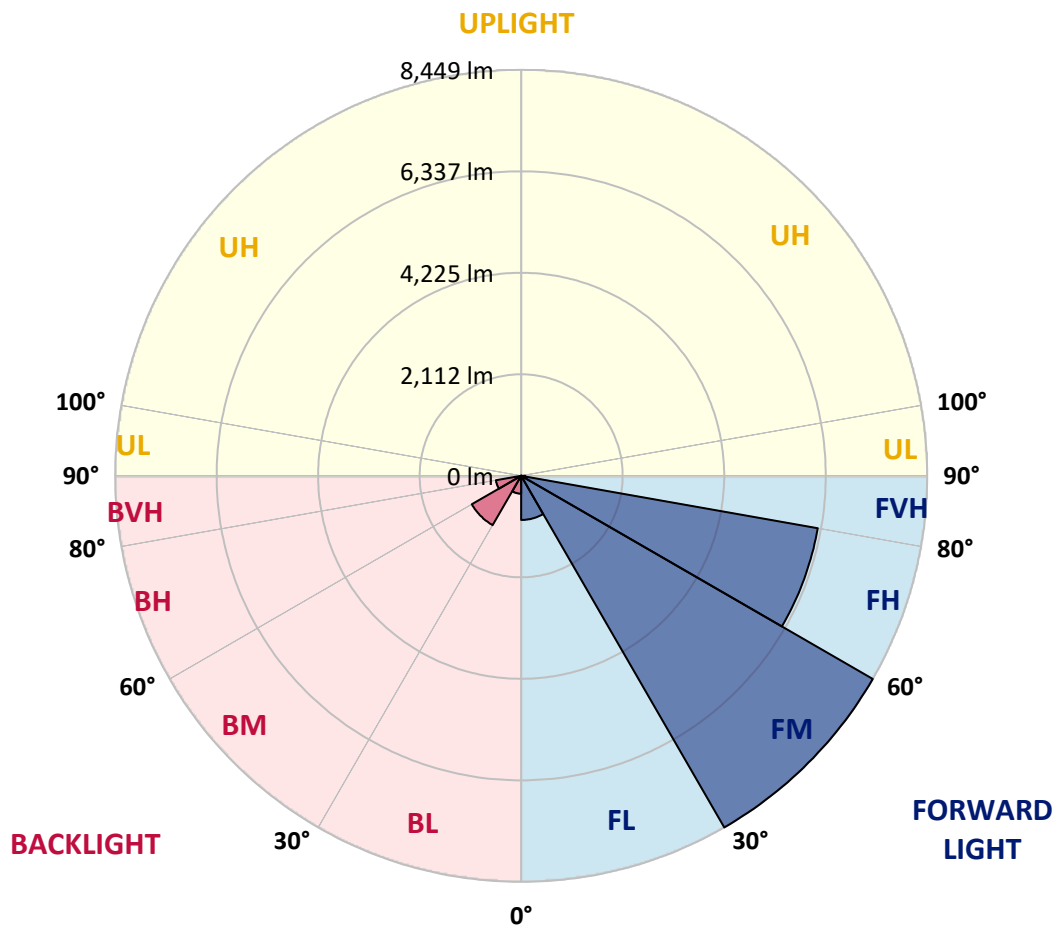
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	918.6	5.2			
FM	(30°-60°)	8449.5	47.4			
FH	(60°-80°)	6268.1	35.2			G3/7500
FVH	(80°-90°)	81.6	0.5			G1/100
BL	(0°-30°)	372.3	2.1	B1/500		
BM	(30°-60°)	1185.8	6.7	B2/2500		
BH	(60°-80°)	534.3	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°	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9
2.5°	1655.6	1658.9	1652.4	1639.5	1626.5	1610.4	1584.5	1542.5	1536.0	1506.9	1474.5
5°	1768.8	1775.3	1765.6	1762.3	1755.9	1733.2	1697.7	1636.2	1629.8	1571.6	1497.2
7.5°	1807.6	1817.3	1810.8	1810.8	1810.8	1801.1	1785.0	1730.0	1720.3	1645.9	1532.8
10°	1836.7	1843.2	1839.9	1852.9	1862.6	1856.1	1846.4	1814.1	1804.4	1730.0	1581.3
12.5°	1882.0	1885.2	1888.5	1894.9	1911.1	1917.6	1914.3	1885.2	1878.8	1827.0	1642.7
15°	1924.0	1924.0	1927.3	1956.4	1979.0	1991.9	1995.2	1972.5	1966.1	1924.0	1720.3
17.5°	1962.8	1966.1	1975.8	2008.1	2046.9	2072.8	2088.9	2079.2	2069.5	2037.2	1810.8
20°	2021.0	2027.5	2037.2	2082.5	2121.3	2163.3	2195.7	2192.4	2189.2	2166.5	1917.6
22.5°	2121.3	2127.7	2143.9	2185.9	2224.8	2276.5	2331.5	2328.2	2318.5	2302.4	2043.7
25°	2273.3	2273.3	2283.0	2318.5	2367.0	2428.5	2480.2	2489.9	2480.2	2470.5	2202.1
27.5°	2464.0	2467.3	2467.3	2506.1	2551.4	2629.0	2693.6	2703.3	2703.3	2693.6	2415.5
30°	2729.2	2719.5	2713.0	2745.4	2793.9	2907.1	3020.2	3039.6	3029.9	3046.1	2716.3
32.5°	3185.1	3169.0	3114.0	3120.5	3149.6	3304.8	3495.6	3563.5	3560.3	3589.4	3201.3
35°	3815.7	3783.4	3702.5	3634.6	3631.4	3799.5	4090.6	4346.0	4342.8	4443.0	3938.6
37.5°	4527.1	4569.2	4417.2	4300.8	4265.2	4397.8	4772.9	5325.8	5354.9	5529.5	4905.5
40°	5477.8	5503.7	5309.7	5144.7	4976.6	5025.1	5519.8	6380.0	6431.7	6625.8	5872.3
42.5°	6305.6	6331.5	6218.3	6017.8	5804.4	5713.9	6273.3	7337.2	7379.2	7647.6	6868.3
45°	6868.3	6887.7	6926.5	6945.9	6703.4	6515.8	7194.9	8320.2	8371.9	8682.4	7841.6
47.5°	7308.1	7324.2	7401.8	7595.9	7547.3	7398.6	8132.6	9342.0	9355.0	9701.0	8789.1
50°	7511.8	7550.6	7741.4	8038.9	8252.3	8294.3	9151.2	10308.9	10344.5	10674.3	9684.8
52.5°	7285.4	7298.4	7780.2	8339.6	8769.7	9196.5	10173.1	11204.6	11308.1	11553.8	10490.0
55°	6522.3	6616.1	7346.9	8329.9	9177.1	10053.4	11266.0	12171.5	12265.2	12420.5	11198.1
57.5°	5636.3	5739.7	6629.0	7912.7	9351.7	10845.7	12278.2	13199.8	13264.4	13306.5	11848.1
60°	4869.9	4966.9	5882.0	7114.0	9177.1	11405.1	13219.2	14221.6	14276.6	14163.4	12174.7
62.5°	3928.9	4025.9	4947.5	6056.6	8491.6	11518.3	13917.6	15130.3	15152.9	14845.7	11974.2
65°	2962.0	3026.7	3796.3	4747.0	7291.9	10916.8	14076.1	15696.2	15673.5	15043.0	11372.8
66°	2654.8	2709.8	3388.9	4197.3	6667.8	10367.1	13862.7	15741.4	15718.8	14897.4	10978.3
67.5°	2289.4	2305.6	2865.0	3434.1	5578.1	9199.7	13212.7	15534.5	15553.9	14496.5	10257.1
70°	1788.2	1785.0	2108.3	2389.7	3809.2	6544.9	11020.3	14231.3	14325.1	12983.1	8747.0
72.5°	1144.7	1105.9	1293.5	1461.6	2218.3	3799.5	8035.6	11599.1	11757.6	10198.9	6515.8
75°	682.3	643.5	688.8	730.8	1063.9	1827.0	4724.4	7893.3	8045.3	6538.4	3877.1
77.5°	510.9	494.7	498.0	462.4	472.1	685.5	2156.8	4171.4	4281.4	2677.5	1471.3
80°	391.3	349.2	326.6	342.8	310.4	271.6	801.9	1435.7	1503.6	633.8	307.2
82.5°	261.9	226.4	210.2	229.6	197.3	152.0	194.0	278.1	271.6	171.4	119.6
85°	135.8	116.4	116.4	116.4	100.2	74.4	84.1	113.2	113.2	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°	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9
2.5°	1448.7	1435.7	1400.2	1374.3	1348.4	1325.8	1299.9	1293.5	1280.5	1283.8	1277.3
5°	1458.4	1422.8	1361.4	1303.2	1257.9	1219.1	1170.6	1151.2	1125.3	1115.6	1109.1
7.5°	1471.3	1419.6	1329.0	1248.2	1170.6	1093.0	1015.4	970.1	941.0	928.1	918.4
10°	1500.4	1432.5	1312.9	1186.8	1054.2	944.2	866.6	834.3	814.9	811.6	808.4
12.5°	1539.2	1451.9	1296.7	1109.1	934.5	831.0	782.5	772.8	769.6	769.6	766.4
15°	1597.4	1484.2	1270.8	1018.6	840.7	769.6	747.0	730.8	724.3	724.3	724.3
17.5°	1655.6	1523.1	1232.0	924.8	776.1	730.8	708.2	698.5	692.0	695.2	692.0
20°	1730.0	1568.3	1180.3	844.0	734.0	698.5	675.8	666.1	662.9	662.9	662.9
22.5°	1814.1	1620.1	1115.6	782.5	698.5	666.1	643.5	633.8	627.3	630.6	630.6
25°	1927.3	1684.7	1047.7	721.1	662.9	633.8	607.9	595.0	595.0	598.2	601.5
27.5°	2072.8	1762.3	979.8	682.3	630.6	601.5	572.4	559.4	562.7	569.1	569.1
30°	2286.2	1869.1	911.9	640.3	595.0	562.7	536.8	523.9	530.3	543.3	543.3
32.5°	2590.2	2043.7	853.7	591.8	543.3	507.7	481.8	472.1	488.3	514.2	514.2
35°	3133.4	2363.8	818.1	543.3	488.3	446.2	413.9	404.2	426.8	459.2	459.2
37.5°	3861.0	2878.0	831.0	501.2	443.0	394.5	358.9	346.0	362.2	391.3	401.0
40°	4672.6	3498.8	944.2	465.6	401.0	352.5	316.9	304.0	313.7	326.6	329.8
42.5°	5484.3	4158.5	1157.6	439.8	368.6	316.9	284.6	274.9	281.3	284.6	287.8
45°	6292.7	4811.7	1426.0	423.6	339.5	287.8	255.5	255.5	258.7	258.7	258.7
47.5°	7059.1	5448.7	1707.4	420.4	313.7	258.7	232.8	236.1	236.1	239.3	239.3
50°	7783.4	6017.8	1991.9	430.1	291.0	232.8	213.4	213.4	213.4	216.7	213.4
52.5°	8388.1	6515.8	2289.4	446.2	268.4	213.4	194.0	194.0	194.0	197.3	194.0
55°	8960.5	6968.5	2593.4	468.9	249.0	197.3	177.9	171.4	171.4	174.6	171.4
57.5°	9426.1	7269.3	2881.2	472.1	232.8	181.1	164.9	155.2	155.2	155.2	155.2
60°	9445.5	7094.6	2965.3	413.9	213.4	164.9	148.7	135.8	139.0	139.0	139.0
62.5°	8827.9	6176.3	2383.2	310.4	190.8	148.7	135.8	122.9	122.9	122.9	122.9
65°	7615.3	4805.2	1396.9	245.8	164.9	132.6	119.6	109.9	109.9	109.9	106.7
66°	7046.1	4213.4	1070.3	223.1	155.2	129.3	116.4	106.7	103.5	100.2	100.2
67.5°	6118.1	3330.7	669.4	197.3	142.3	119.6	106.7	97.0	93.8	90.5	90.5
70°	4608.0	2114.8	326.6	152.0	122.9	103.5	93.8	84.1	80.8	77.6	74.4
72.5°	3233.7	1238.5	171.4	116.4	100.2	90.5	80.8	71.1	67.9	64.7	64.7
75°	1827.0	598.2	113.2	84.1	80.8	74.4	67.9	58.2	55.0	55.0	55.0
77.5°	692.0	207.0	77.6	61.4	64.7	58.2	48.5	48.5	45.3	48.5	45.3
80°	181.1	90.5	48.5	45.3	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)