

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: P1211262

Luminaire Tested: **ARCH4-220-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211262
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: ARCH4-220-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA 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: 23055 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 221.8
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

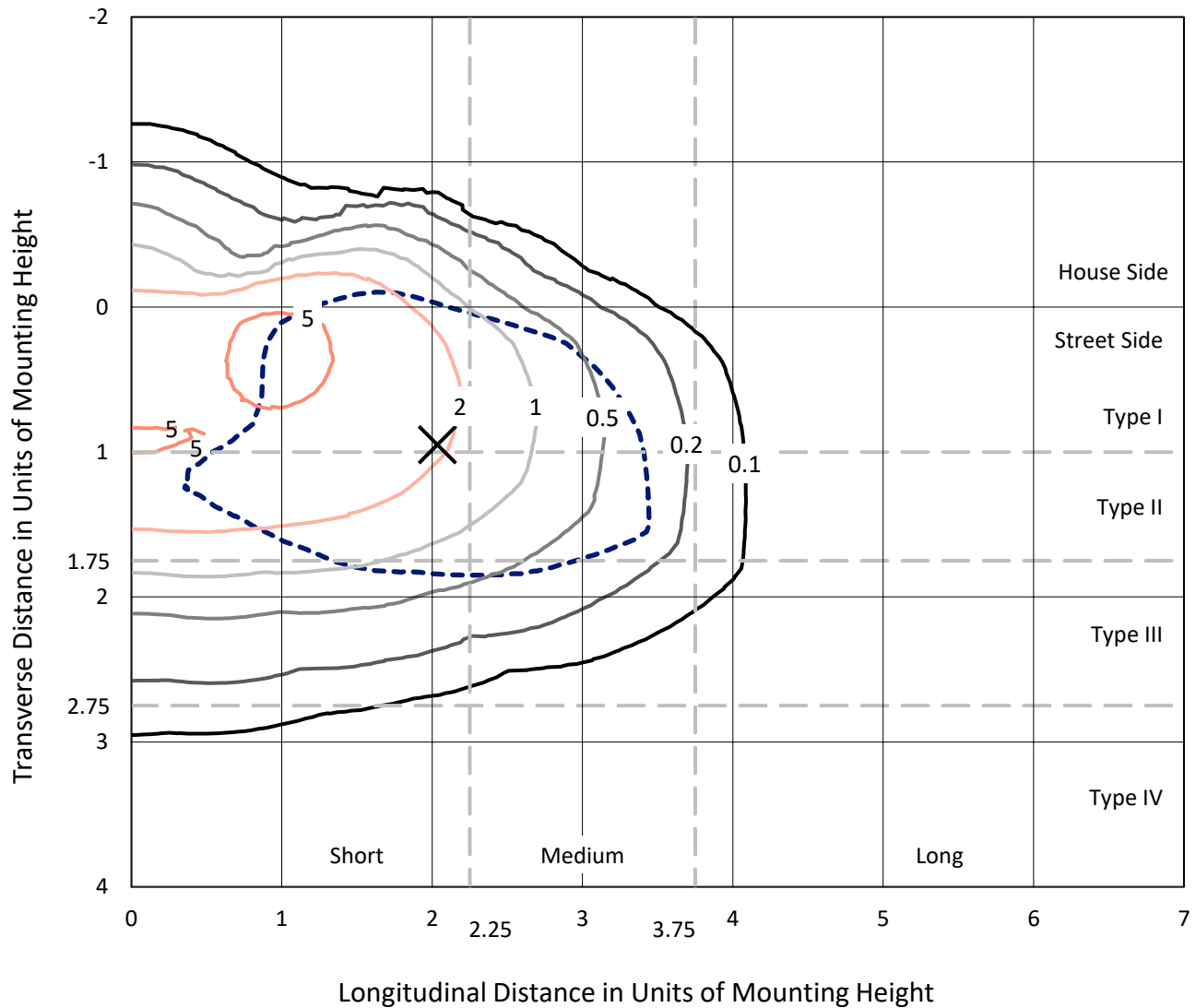


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

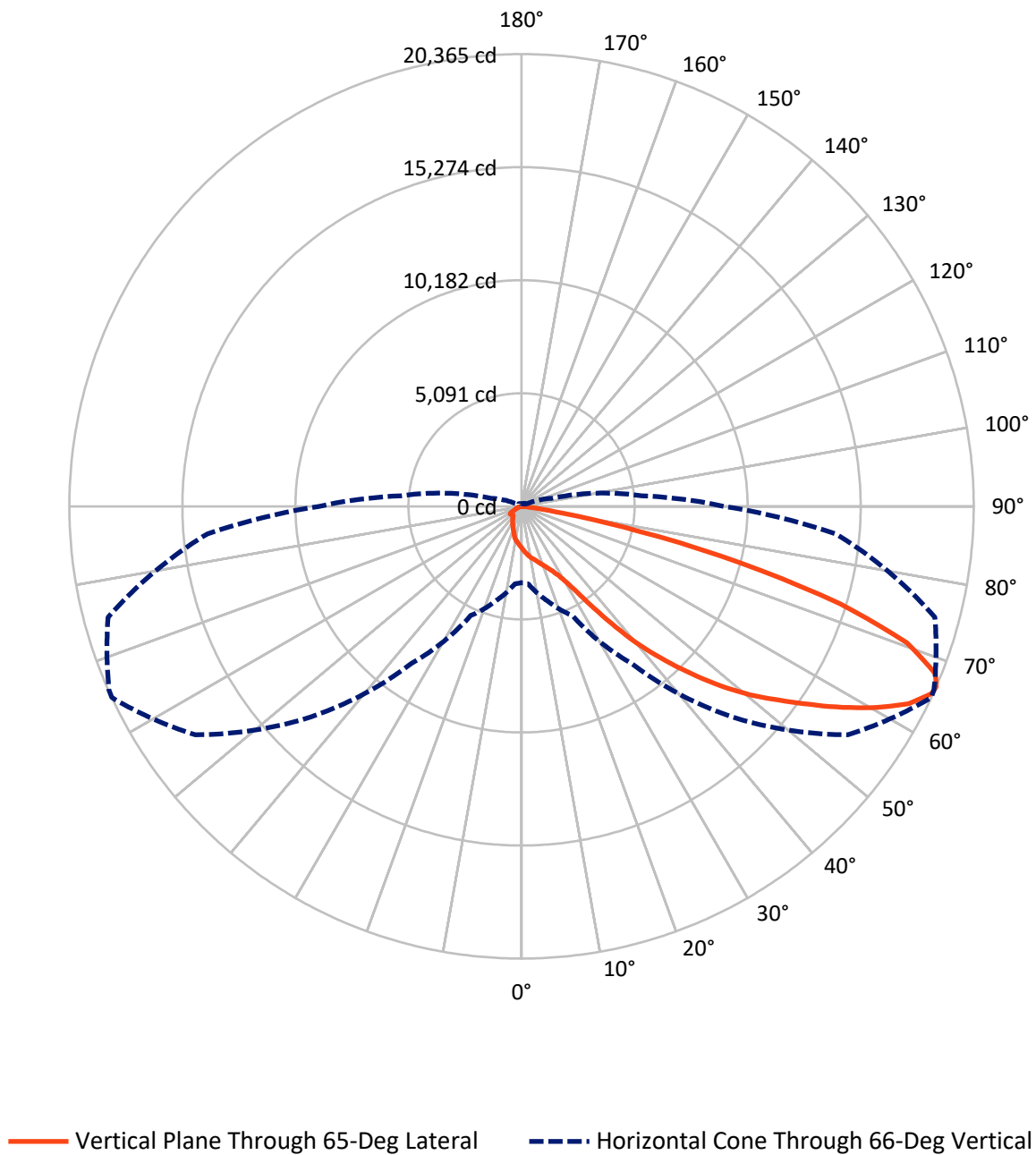


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2721.0	0.0	2721.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20334.0	0.0	20334.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	23055.0	0.0	23055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	0.8
10°-20°	527.1	2.3
20°-30°	964.8	4.2
30°-40°	1960.5	8.5
40°-50°	4140.1	18.0
50°-60°	6364.6	27.6
60°-70°	6406.4	27.8
70°-80°	2393.8	10.4
80°-90°	119.6	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°	23055.0	100.0
0°-180°	23055.0	100.0

Coefficient of Utilization



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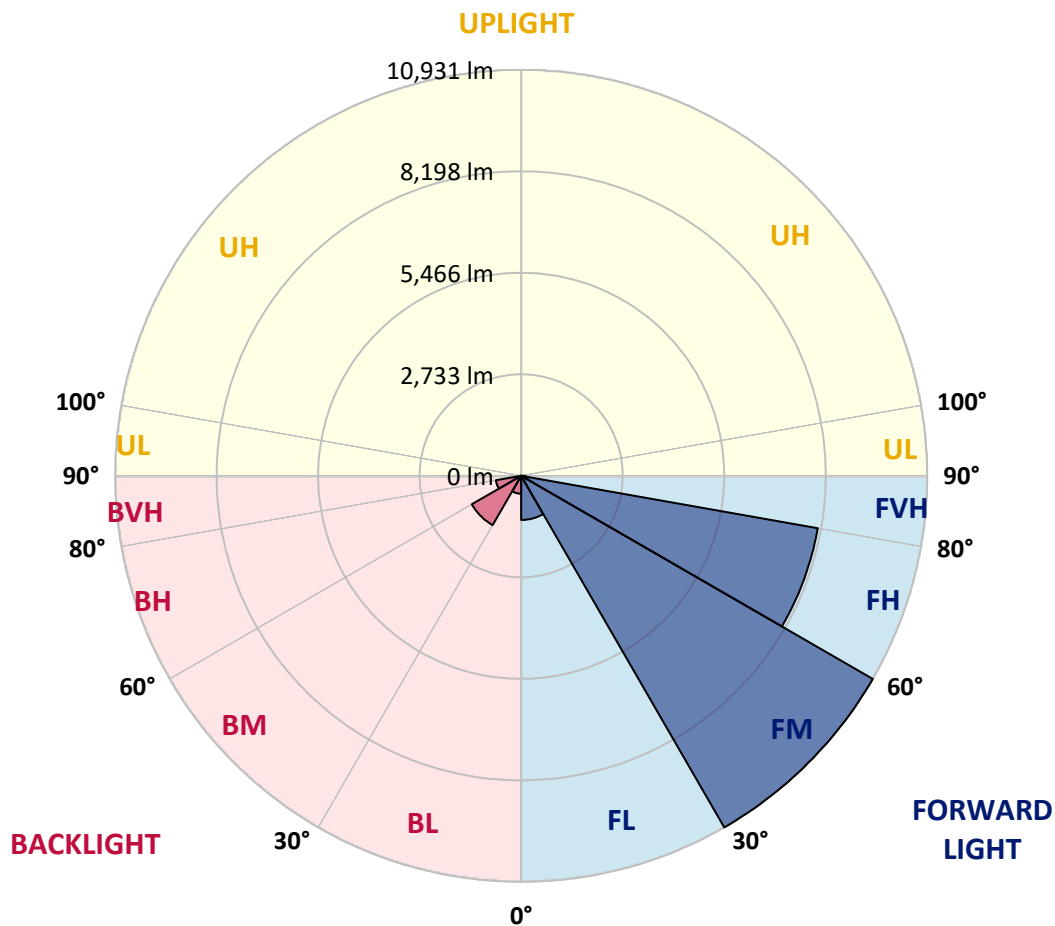
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1188.5	5.2			
FM	(30°-60°)	10931.1	47.4			
FH	(60°-80°)	8109.0	35.2			G4/12000
FVH	(80°-90°)	105.5	0.5			G2/225
BL	(0°-30°)	481.6	2.1	B1/500		
BM	(30°-60°)	1534.1	6.7	B2/2500		
BH	(60°-80°)	691.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3
2.5°	2141.9	2146.1	2137.7	2121.0	2104.2	2083.3	2049.9	1995.5	1987.1	1949.5	1907.6
5°	2288.3	2296.7	2284.1	2279.9	2271.6	2242.3	2196.3	2116.8	2108.4	2033.1	1936.9
7.5°	2338.5	2351.1	2342.7	2342.7	2342.7	2330.1	2309.2	2238.1	2225.6	2129.3	1982.9
10°	2376.2	2384.5	2380.3	2397.1	2409.6	2401.3	2388.7	2346.9	2334.3	2238.1	2045.7
12.5°	2434.7	2438.9	2443.1	2451.5	2472.4	2480.7	2476.6	2438.9	2430.5	2363.6	2125.2
15°	2489.1	2489.1	2493.3	2530.9	2560.2	2577.0	2581.1	2551.9	2543.5	2489.1	2225.6
17.5°	2539.3	2543.5	2556.0	2597.9	2648.1	2681.5	2702.5	2689.9	2677.4	2635.5	2342.7
20°	2614.6	2623.0	2635.5	2694.1	2744.3	2798.7	2840.5	2836.3	2832.1	2802.9	2480.7
22.5°	2744.3	2752.7	2773.6	2828.0	2878.2	2945.1	3016.2	3012.0	2999.5	2978.6	2643.9
25°	2940.9	2940.9	2953.5	2999.5	3062.2	3141.7	3208.6	3221.2	3208.6	3196.1	2848.9
27.5°	3187.7	3191.9	3191.9	3242.1	3300.7	3401.1	3484.7	3497.3	3497.3	3484.7	3125.0
30°	3530.8	3518.2	3509.8	3551.7	3614.4	3760.9	3907.3	3932.4	3919.8	3940.7	3514.0
32.5°	4120.6	4099.7	4028.6	4037.0	4074.6	4275.4	4522.2	4610.1	4605.9	4643.5	4141.5
35°	4936.4	4894.5	4790.0	4702.1	4697.9	4915.5	5292.0	5622.5	5618.3	5748.0	5095.3
37.5°	5856.7	5911.1	5714.5	5563.9	5517.9	5689.4	6174.7	6890.0	6927.7	7153.6	6346.2
40°	7086.6	7120.1	6869.1	6655.7	6438.2	6501.0	7141.0	8253.8	8320.7	8571.7	7597.0
42.5°	8157.6	8191.0	8044.6	7785.3	7509.2	7392.0	8115.7	9492.1	9546.5	9893.7	8885.5
45°	8885.5	8910.6	8960.8	8985.9	8672.1	8429.5	9308.0	10763.8	10830.7	11232.4	10144.7
47.5°	9454.4	9475.3	9575.7	9826.7	9764.0	9571.6	10521.2	12085.8	12102.5	12550.1	11370.4
50°	9718.0	9768.2	10015.0	10399.9	10676.0	10730.3	11838.9	13336.6	13382.6	13809.3	12529.2
52.5°	9425.1	9441.9	10065.2	10788.9	11345.3	11897.5	13160.9	14495.4	14629.3	14947.2	13570.9
55°	8437.9	8559.2	9504.6	10776.4	11872.4	13006.1	14574.9	15746.2	15867.5	16068.3	14487.0
57.5°	7291.6	7425.5	8575.9	10236.7	12098.3	14031.0	15884.3	17076.5	17160.2	17214.6	15327.9
60°	6300.2	6425.7	7609.6	9203.4	11872.4	14754.8	17101.6	18398.5	18469.6	18323.2	15750.4
62.5°	5082.8	5208.3	6400.6	7835.5	10985.5	14901.2	18005.2	19574.0	19603.3	19205.9	15491.0
65°	3832.0	3915.6	4911.3	6141.2	9433.5	14123.1	18210.2	20306.1	20276.8	19461.0	14712.9
66°	3434.5	3505.7	4384.2	5430.0	8626.1	13411.9	17934.1	20364.7	20335.4	19272.8	14202.5
67.5°	2961.8	2982.7	3706.5	4442.7	7216.3	11901.7	17093.3	20096.9	20122.0	18754.1	13269.7
70°	2313.4	2309.2	2727.6	3091.5	4928.0	8467.1	14256.9	18411.0	18532.3	16796.2	11316.0
72.5°	1480.9	1430.7	1673.3	1890.9	2869.8	4915.5	10395.7	15005.8	15210.7	13194.4	8429.5
75°	882.7	832.5	891.1	945.4	1376.3	2363.6	6111.9	10211.6	10408.2	8458.8	5015.9
77.5°	661.0	640.1	644.2	598.2	610.8	886.9	2790.3	5396.5	5538.8	3463.8	1903.4
80°	506.2	451.8	422.5	443.4	401.6	351.4	1037.5	1857.4	1945.3	819.9	397.4
82.5°	338.9	292.8	271.9	297.0	255.2	196.6	251.0	359.8	351.4	221.7	154.8
85°	175.7	150.6	150.6	150.6	129.7	96.2	108.8	146.4	146.4	117.1	92.0
87.5°	50.2	46.0	54.4	50.2	37.7	37.7	41.8	50.2	50.2	46.0	41.8
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°	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3
2.5°	1874.2	1857.4	1811.4	1777.9	1744.5	1715.2	1681.7	1673.3	1656.6	1660.8	1652.4
5°	1886.7	1840.7	1761.2	1685.9	1627.3	1577.1	1514.4	1489.3	1455.8	1443.3	1434.9
7.5°	1903.4	1836.5	1719.4	1614.8	1514.4	1414.0	1313.6	1255.0	1217.4	1200.6	1188.1
10°	1941.1	1853.2	1698.4	1535.3	1363.8	1221.5	1121.1	1079.3	1054.2	1050.0	1045.8
12.5°	1991.3	1878.3	1677.5	1434.9	1209.0	1075.1	1012.4	999.8	995.6	995.6	991.5
15°	2066.6	1920.2	1644.1	1317.8	1087.7	995.6	966.4	945.4	937.1	937.1	937.1
17.5°	2141.9	1970.4	1593.9	1196.4	1004.0	945.4	916.2	903.6	895.2	899.4	895.2
20°	2238.1	2028.9	1526.9	1091.9	949.6	903.6	874.3	861.8	857.6	857.6	857.6
22.5°	2346.9	2095.9	1443.3	1012.4	903.6	861.8	832.5	819.9	811.6	815.8	815.8
25°	2493.3	2179.5	1355.4	932.9	857.6	819.9	786.5	769.7	769.7	773.9	778.1
27.5°	2681.5	2279.9	1267.6	882.7	815.8	778.1	740.5	723.7	727.9	736.3	736.3
30°	2957.6	2418.0	1179.7	828.3	769.7	727.9	694.4	677.7	686.1	702.8	702.8
32.5°	3350.9	2643.9	1104.4	765.6	702.8	656.8	623.3	610.8	631.7	665.2	665.2
35°	4053.7	3058.0	1058.4	702.8	631.7	577.3	535.5	522.9	552.2	594.0	594.0
37.5°	4994.9	3723.2	1075.1	648.4	573.1	510.4	464.4	447.6	468.5	506.2	518.7
40°	6045.0	4526.4	1221.5	602.4	518.7	456.0	410.0	393.2	405.8	422.5	426.7
42.5°	7095.0	5379.8	1497.6	568.9	476.9	410.0	368.1	355.6	364.0	368.1	372.3
45°	8140.8	6224.9	1844.9	548.0	439.3	372.3	330.5	330.5	334.7	334.7	334.7
47.5°	9132.3	7049.0	2208.8	543.8	405.8	334.7	301.2	305.4	305.4	309.6	309.6
50°	10069.4	7785.3	2577.0	556.4	376.5	301.2	276.1	276.1	276.1	280.3	276.1
52.5°	10851.7	8429.5	2961.8	577.3	347.2	276.1	251.0	251.0	251.0	255.2	251.0
55°	11592.1	9015.2	3355.1	606.6	322.1	255.2	230.1	221.7	221.7	225.9	221.7
57.5°	12194.5	9404.2	3727.4	610.8	301.2	234.3	213.4	200.8	200.8	200.8	200.8
60°	12219.6	9178.3	3836.2	535.5	276.1	213.4	192.4	175.7	179.9	179.9	179.9
62.5°	11420.6	7990.2	3083.1	401.6	246.8	192.4	175.7	159.0	159.0	159.0	159.0
65°	9851.8	6216.5	1807.2	317.9	213.4	171.5	154.8	142.2	142.2	142.2	138.1
66°	9115.6	5450.9	1384.7	288.7	200.8	167.3	150.6	138.1	133.9	129.7	129.7
67.5°	7914.9	4308.9	866.0	255.2	184.1	154.8	138.1	125.5	121.3	117.1	117.1
70°	5961.3	2735.9	422.5	196.6	159.0	133.9	121.3	108.8	104.6	100.4	96.2
72.5°	4183.4	1602.2	221.7	150.6	129.7	117.1	104.6	92.0	87.9	83.7	83.7
75°	2363.6	773.9	146.4	108.8	104.6	96.2	87.9	75.3	71.1	71.1	71.1
77.5°	895.2	267.7	100.4	79.5	83.7	75.3	62.8	62.8	58.6	62.8	58.6
80°	234.3	117.1	62.8	58.6	62.8	54.4	46.0	50.2	50.2	50.2	50.2
82.5°	125.5	66.9	37.7	41.8	37.7	37.7	29.3	33.5	37.7	33.5	37.7
85°	87.9	33.5	20.9	20.9	16.7	16.7	12.6	16.7	20.9	16.7	16.7
87.5°	46.0	12.6	12.6	12.6	12.6	8.4	4.2	0.0	4.2	4.2	4.2
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)