

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: P1210652

Luminaire Tested: **ARCH3-190-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210652
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: ARCH3-190-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA 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: 17157 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

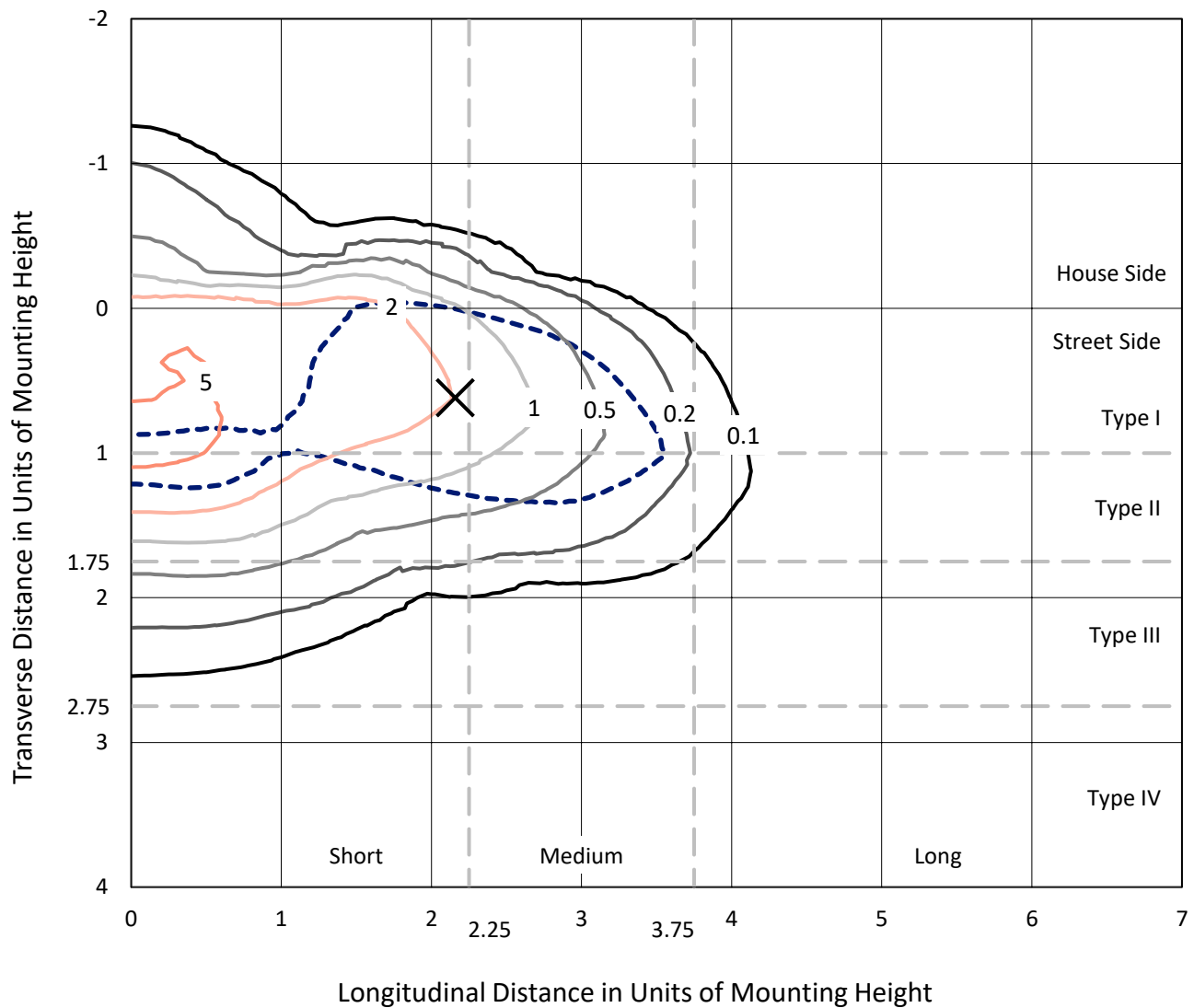


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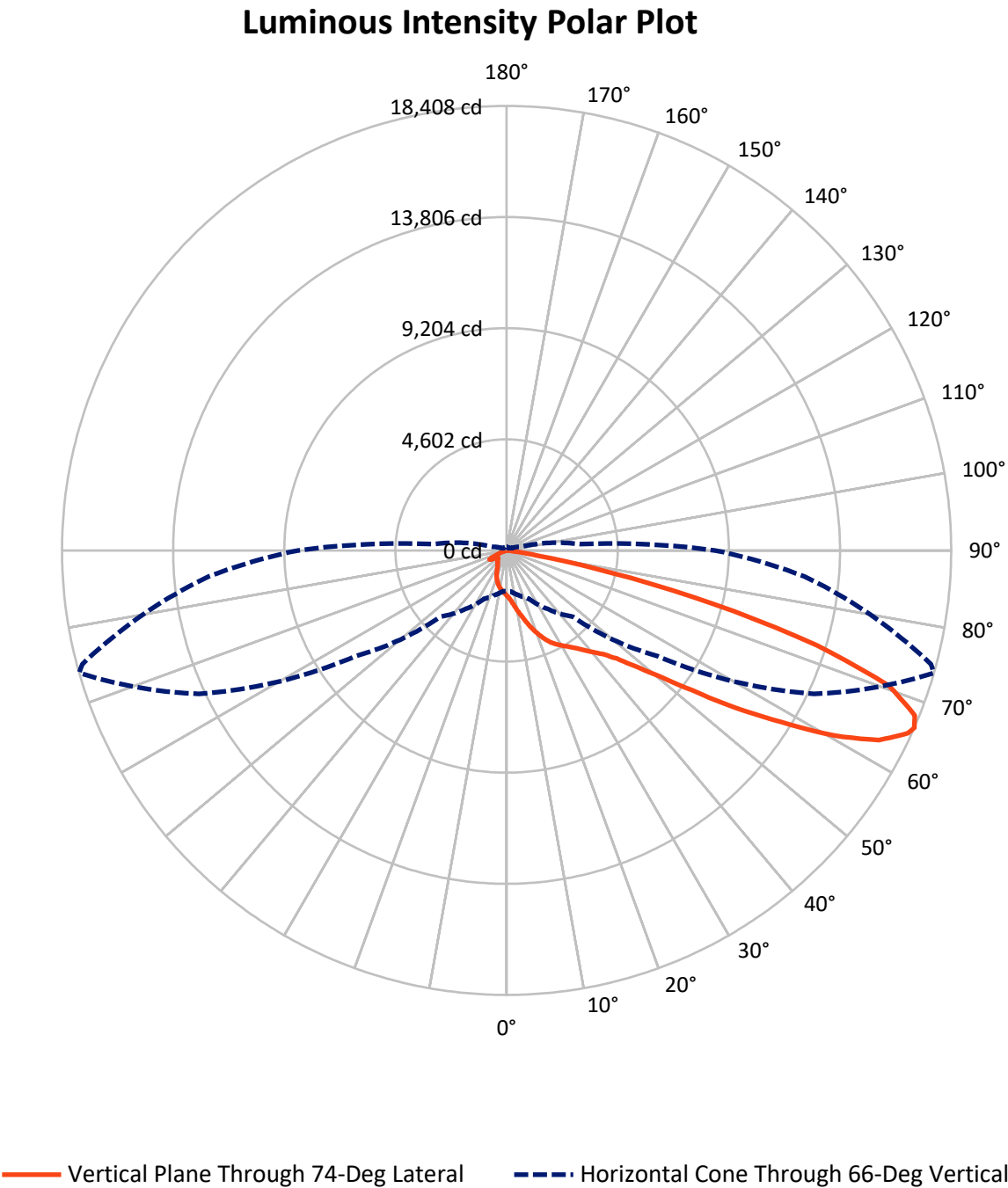
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1681.9	0.0	1681.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15475.1	0.0	15475.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	17157.0	0.0	17157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.1
10°-20°	586.0	3.4
20°-30°	1118.4	6.5
30°-40°	1960.3	11.4
40°-50°	3361.4	19.6
50°-60°	4371.7	25.5
60°-70°	3957.5	23.1
70°-80°	1527.0	8.9
80°-90°	91.9	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°	17157.0	100.0
0°-180°	17157.0	100.0

Coefficient of Utilization



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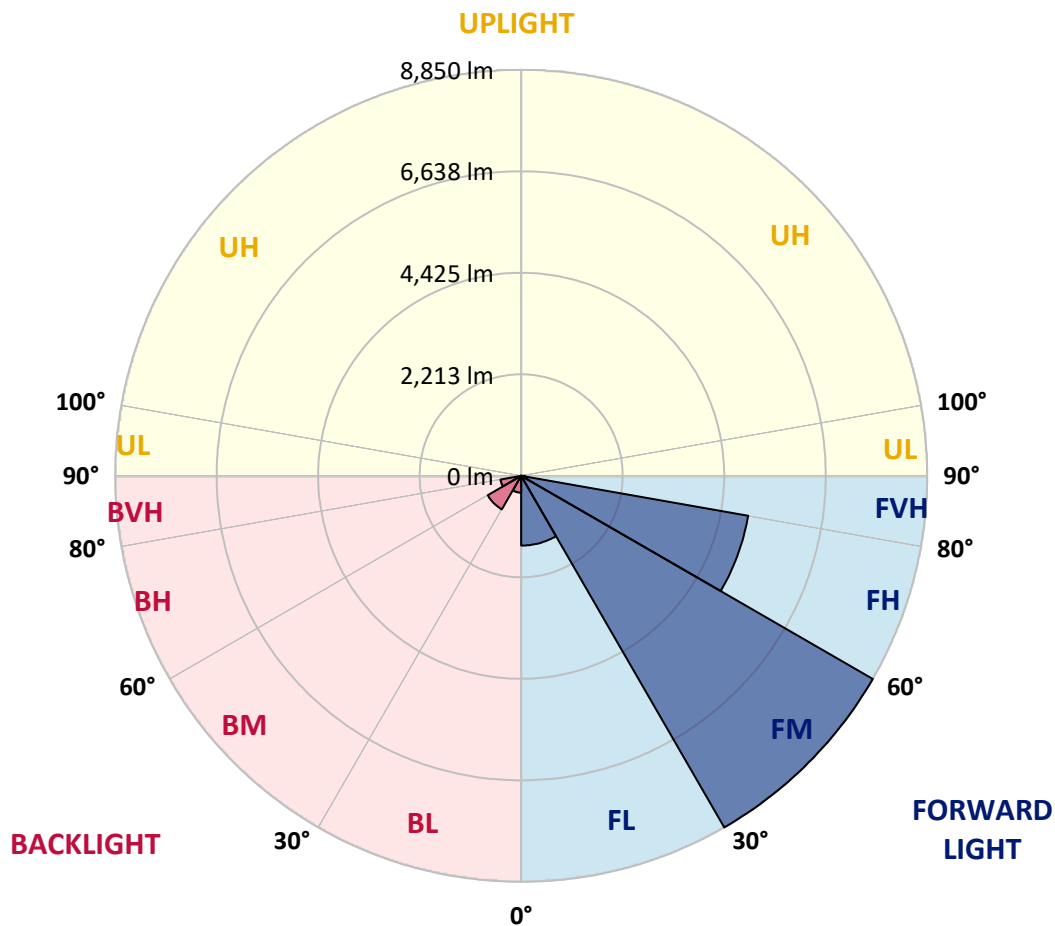
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1520.4	8.9			
FM	(30°-60°)	8850.4	51.6			
FH	(60°-80°)	5024.7	29.3			G3/7500
FVH	(80°-90°)	79.6	0.5			G1/100
BL	(0°-30°)	366.9	2.1	B1/500		
BM	(30°-60°)	842.9	4.9	B1/1000		
BH	(60°-80°)	459.8	2.7	B1/500		G1/500
BVH	(80°-90°)	12.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8
2.5°	2248.6	2230.2	2196.3	2193.2	2165.5	2131.6	2073.1	2011.4	1968.3	1962.2	1909.8
5°	2692.2	2683.0	2649.1	2627.5	2575.1	2495.1	2359.5	2224.0	2110.0	2097.7	1980.6
7.5°	2809.3	2815.4	2821.6	2843.1	2824.7	2787.7	2686.0	2495.1	2316.4	2288.7	2085.4
10°	2827.7	2821.6	2821.6	2849.3	2901.7	2954.0	2941.7	2778.4	2547.4	2513.5	2230.2
12.5°	3028.0	3037.2	3015.6	3003.3	2994.1	3021.8	3114.2	3043.4	2790.8	2763.0	2405.7
15°	3286.7	3283.6	3252.8	3252.8	3225.1	3178.9	3237.4	3289.8	3083.4	3049.5	2606.0
17.5°	3474.6	3486.9	3483.8	3502.3	3493.1	3431.5	3400.7	3508.5	3385.3	3342.1	2833.9
20°	3625.5	3659.4	3671.7	3730.3	3758.0	3714.9	3634.8	3702.5	3674.8	3634.8	3064.9
22.5°	3785.7	3813.4	3835.0	3936.6	4013.7	4004.4	3902.8	3887.4	3955.1	3918.2	3292.9
25°	3945.9	3958.2	4022.9	4146.1	4269.3	4300.1	4195.4	4075.3	4207.7	4173.8	3496.2
27.5°	4121.5	4127.6	4204.6	4355.6	4528.1	4592.8	4509.6	4287.8	4401.8	4401.8	3681.0
30°	4441.8	4503.4	4534.2	4669.8	4820.7	4910.0	4811.5	4512.7	4574.3	4602.0	3875.0
32.5°	5131.8	5141.1	5131.8	5190.3	5221.1	5273.5	5159.5	4765.3	4749.9	4780.7	4066.0
35°	6185.3	6148.3	6049.7	5963.5	5784.8	5686.3	5538.4	5088.7	4965.5	5008.6	4253.9
37.5°	7463.6	7411.3	7186.4	6921.5	6539.5	6145.2	5960.4	5483.0	5239.6	5295.1	4457.2
40°	8683.4	8649.5	8381.6	8055.0	7402.0	6727.4	6336.2	5815.6	5544.6	5566.1	4663.6
42.5°	9687.6	9681.4	9456.6	9114.7	8276.8	7355.8	6779.8	6142.2	5864.9	5898.8	4879.2
45°	10448.4	10389.9	10223.6	9977.2	9123.9	8008.8	7315.8	6638.1	6379.3	6419.4	5202.7
47.5°	10448.4	10457.7	10565.5	10540.9	9715.3	8621.8	7901.0	7263.4	7140.2	7177.1	5735.6
50°	9598.3	9684.5	10165.1	10568.6	10023.4	9099.3	8532.5	8045.8	8172.1	8227.5	6665.8
52.5°	7916.4	8061.2	8896.0	9817.0	9795.4	9339.5	9185.5	9040.7	9607.5	9706.1	8039.6
55°	6015.9	6111.4	7198.7	8409.3	8803.6	9142.4	9755.4	10303.7	11508.1	11486.5	9435.0
57.5°	4494.2	4583.5	5519.9	6863.0	7383.5	8289.1	10048.0	11748.3	13393.2	13476.4	10744.2
60°	3305.2	3373.0	4170.8	5273.5	6025.1	6983.1	9931.0	13171.5	15564.9	15469.4	11899.3
62.5°	2445.8	2482.7	3058.8	3776.5	4774.5	5689.4	9194.8	14144.8	17299.1	17105.0	12543.1
65°	1891.3	1903.6	2202.4	2584.4	3471.5	4423.3	8098.2	14292.7	18257.1	18050.7	12530.7
66°	1684.9	1694.2	1912.9	2208.6	2954.0	3872.0	7617.6	14055.5	18408.0	18189.3	12376.7
67.5°	1413.9	1407.7	1537.1	1731.1	2217.8	2987.9	6764.4	13362.4	18229.3	18118.4	11883.9
70°	1047.3	1050.4	1115.1	1161.3	1296.8	1654.1	4885.4	11591.2	16800.1	16793.9	10531.6
72.5°	776.2	785.5	834.8	844.0	810.1	896.4	2815.4	9219.4	13439.4	13442.5	7873.3
75°	582.2	597.6	613.0	619.1	588.3	566.8	1272.2	6203.8	8840.5	8775.8	4457.2
77.5°	443.6	449.7	462.0	452.8	446.6	391.2	529.8	3024.9	4364.8	3976.7	1444.7
80°	323.4	323.4	335.8	323.4	320.4	280.3	289.6	970.3	1281.4	1065.8	311.1
82.5°	203.3	200.2	209.5	206.4	200.2	178.7	169.4	271.1	295.7	264.9	150.9
85°	114.0	110.9	107.8	104.7	95.5	80.1	92.4	101.7	135.5	138.6	107.8
87.5°	40.0	40.0	37.0	33.9	27.7	27.7	33.9	33.9	49.3	49.3	55.4
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°	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8
2.5°	1885.2	1851.3	1802.0	1737.3	1691.1	1644.9	1595.6	1567.9	1527.8	1518.6	1530.9
5°	1919.0	1857.4	1734.2	1598.7	1481.6	1376.9	1278.3	1219.8	1161.3	1139.7	1149.0
7.5°	1989.9	1885.2	1675.7	1457.0	1262.9	1105.8	988.8	921.0	868.7	847.1	853.2
10°	2094.6	1934.4	1620.2	1296.8	1047.3	881.0	782.4	739.3	708.5	696.2	699.2
12.5°	2220.9	2005.3	1549.4	1136.6	862.5	717.7	671.5	662.3	656.1	649.9	653.0
15°	2362.6	2066.9	1466.2	979.5	717.7	637.6	622.2	619.1	616.1	616.1	616.1
17.5°	2510.5	2122.3	1373.8	831.7	625.3	588.3	579.1	579.1	579.1	582.2	582.2
20°	2649.1	2165.5	1266.0	699.2	572.9	542.1	536.0	536.0	539.1	542.1	542.1
22.5°	2784.6	2183.9	1139.7	606.8	529.8	502.1	492.9	492.9	492.9	495.9	495.9
25°	2901.7	2183.9	1013.4	548.3	492.9	465.1	452.8	449.7	452.8	452.8	452.8
27.5°	3000.2	2174.7	890.2	508.3	455.9	428.2	415.8	412.8	418.9	422.0	422.0
30°	3105.0	2162.4	791.6	471.3	425.1	397.4	385.0	385.0	394.3	406.6	406.6
32.5°	3206.6	2171.6	714.6	440.5	394.3	372.7	360.4	363.5	382.0	400.4	400.4
35°	3314.4	2190.1	668.4	418.9	372.7	351.2	341.9	351.2	369.6	388.1	388.1
37.5°	3422.2	2211.7	640.7	400.4	354.2	332.7	326.5	338.8	360.4	378.9	382.0
40°	3536.2	2230.2	609.9	382.0	341.9	317.3	314.2	326.5	354.2	372.7	375.8
42.5°	3677.9	2267.1	572.9	366.6	329.6	298.8	301.9	311.1	338.8	366.6	369.6
45°	3955.1	2384.2	536.0	351.2	314.2	289.6	283.4	289.6	320.4	351.2	357.3
47.5°	4475.7	2649.1	495.9	335.8	298.8	283.4	258.7	264.9	292.6	326.5	329.6
50°	5473.7	3212.8	474.4	320.4	286.5	261.8	234.1	234.1	255.7	286.5	286.5
52.5°	7029.3	4223.1	486.7	308.0	271.1	240.3	212.5	209.5	221.8	243.3	243.3
55°	8708.1	5332.0	532.9	295.7	252.6	227.9	197.1	181.7	191.0	203.3	203.3
57.5°	10038.8	5889.6	659.2	289.6	231.0	218.7	178.7	157.1	166.3	178.7	178.7
60°	10624.0	5563.1	800.9	295.7	215.6	203.3	160.2	138.6	154.0	166.3	169.4
62.5°	10149.7	4580.4	859.4	280.3	194.1	181.7	157.1	129.4	147.9	157.1	160.2
65°	9123.9	3480.8	671.5	243.3	178.7	157.1	141.7	123.2	138.6	147.9	147.9
66°	8637.2	3034.1	572.9	224.9	172.5	147.9	135.5	123.2	135.5	141.7	144.8
67.5°	7882.5	2393.4	425.1	197.1	160.2	135.5	126.3	117.1	129.4	135.5	135.5
70°	6163.7	1426.2	255.7	154.0	138.6	120.1	114.0	107.8	117.1	120.1	120.1
72.5°	3859.6	677.7	163.3	114.0	117.1	114.0	95.5	101.7	104.7	107.8	107.8
75°	1869.8	268.0	110.9	83.2	95.5	107.8	77.0	89.3	92.4	98.6	95.5
77.5°	520.6	129.4	70.8	61.6	83.2	83.2	58.5	70.8	83.2	104.7	95.5
80°	150.9	83.2	46.2	46.2	58.5	58.5	40.0	49.3	55.4	61.6	64.7
82.5°	104.7	55.4	30.8	33.9	33.9	37.0	24.6	24.6	30.8	30.8	33.9
85°	83.2	24.6	18.5	21.6	15.4	18.5	12.3	12.3	15.4	12.3	12.3
87.5°	33.9	12.3	12.3	12.3	9.2	9.2	6.2	3.1	3.1	3.1	3.1
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)