

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: P836166

Luminaire Tested: **ARCH3-150-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12844 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 150.7
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

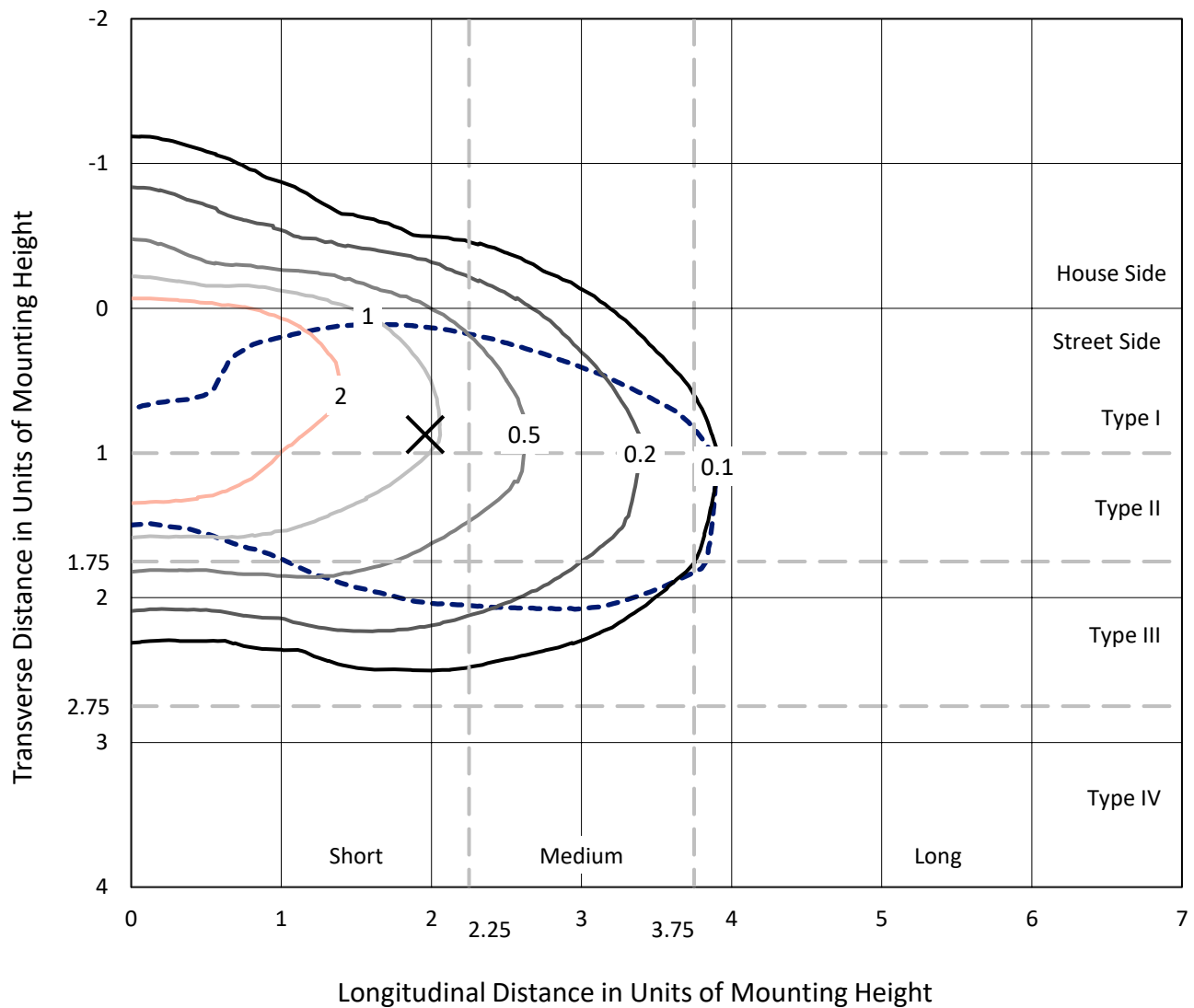


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

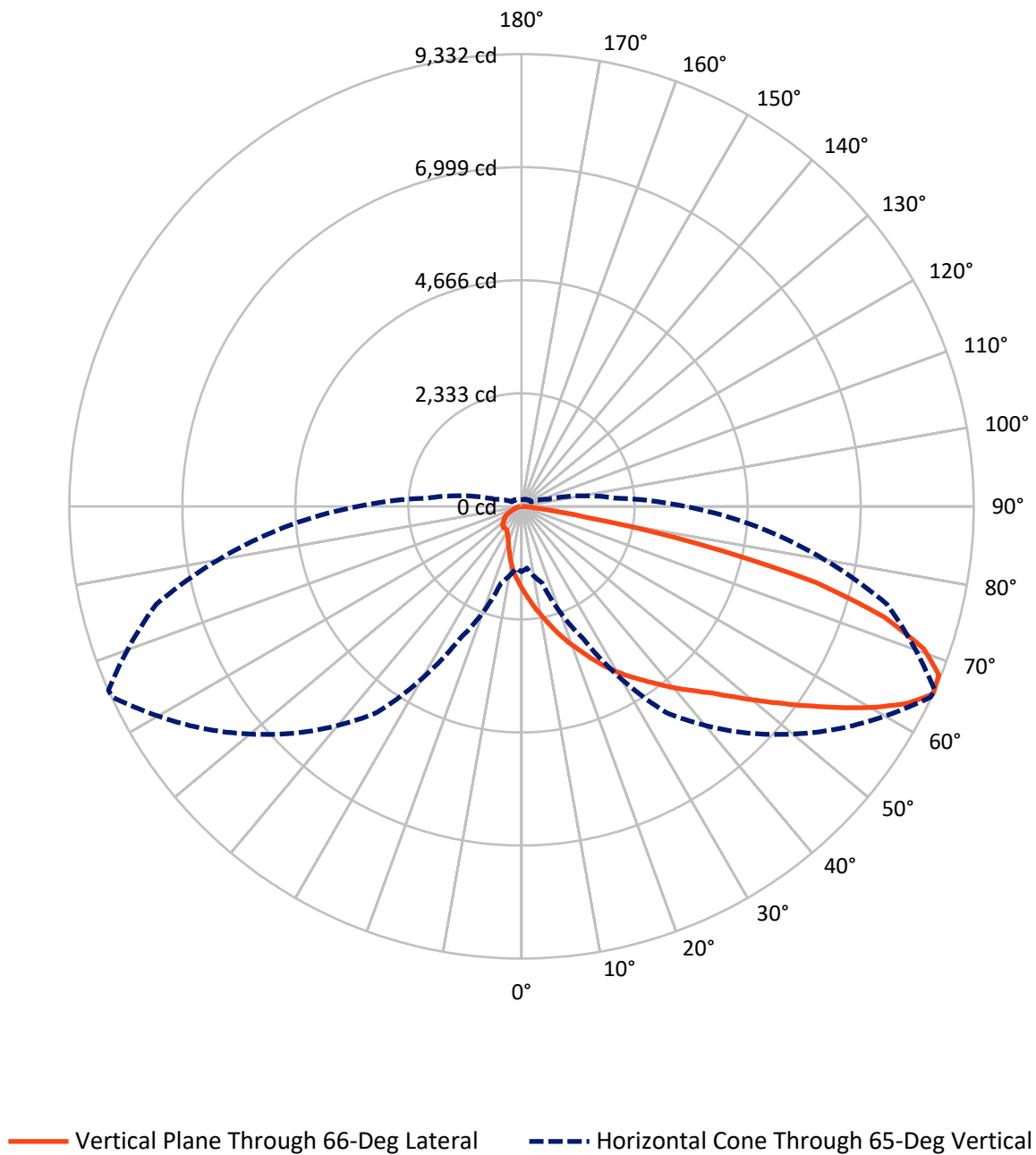


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.6	0.0	1358.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11485.5	0.0	11485.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	12844.0	0.0	12844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.3
10°-20°	546.8	4.3
20°-30°	989.4	7.7
30°-40°	1547.1	12.0
40°-50°	2347.0	18.3
50°-60°	2981.9	23.2
60°-70°	2786.3	21.7
70°-80°	1384.8	10.8
80°-90°	93.0	0.7
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°	12844.0	100.0
0°-180°	12844.0	100.0

Coefficient of Utilization



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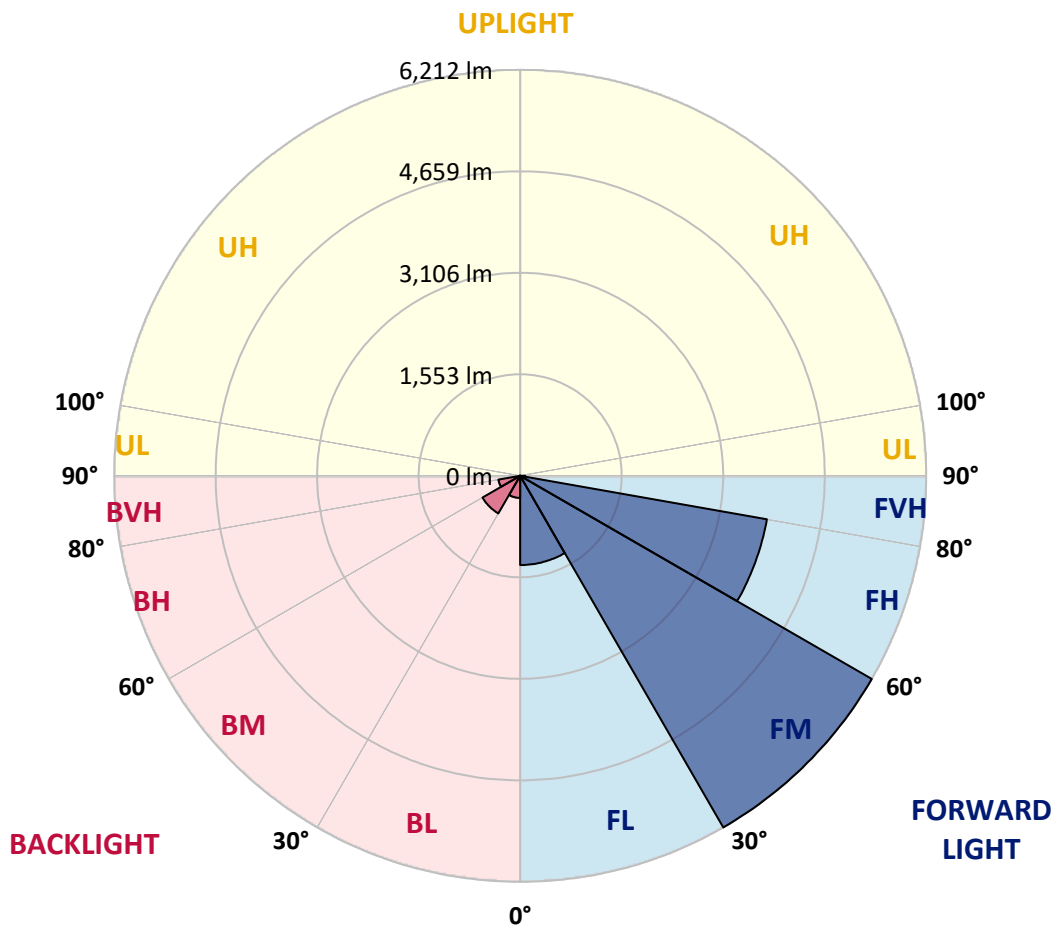
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.7	10.6			
FM	(30°-60°)	6211.5	48.4			
FH	(60°-80°)	3832.7	29.8			G2/5000
FVH	(80°-90°)	76.6	0.6			G1/100
BL	(0°-30°)	339.3	2.6	B1/500		
BM	(30°-60°)	664.5	5.2	B1/1000		
BH	(60°-80°)	338.3	2.6	B1/500		G1/500
BVH	(80°-90°)	16.5	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8
2.5°	1985.4	2001.5	2009.6	2012.3	1950.4	1923.4	1896.5	1834.5	1821.1	1786.0	1740.2
5°	2335.6	2357.1	2351.7	2341.0	2265.5	2179.3	2109.3	1993.5	1974.6	1891.1	1788.7
7.5°	2680.4	2699.3	2693.9	2653.5	2570.0	2448.7	2332.9	2163.2	2136.2	2001.5	1837.2
10°	2968.6	2984.8	2982.1	2941.7	2842.0	2693.9	2553.8	2327.5	2295.2	2103.9	1877.6
12.5°	3205.7	3227.3	3224.6	3197.6	3108.7	2947.1	2788.2	2516.1	2475.7	2227.8	1934.2
15°	3391.6	3418.5	3418.5	3407.7	3345.8	3211.1	3030.6	2723.5	2675.0	2370.6	2004.2
17.5°	3504.7	3526.3	3545.1	3564.0	3520.9	3418.5	3254.2	2930.9	2879.7	2510.7	2077.0
20°	3564.0	3585.5	3599.0	3639.4	3647.5	3596.3	3467.0	3135.7	3081.8	2669.6	2160.5
22.5°	3661.0	3679.8	3682.5	3717.5	3733.7	3747.2	3666.4	3337.7	3294.6	2844.7	2254.8
25°	3822.6	3844.2	3836.1	3852.2	3854.9	3871.1	3863.0	3569.4	3526.3	3044.1	2367.9
27.5°	4030.0	4057.0	4051.6	4035.4	4011.2	3997.7	4032.7	3803.7	3763.3	3243.4	2483.7
30°	4253.6	4285.9	4277.9	4245.5	4180.9	4124.3	4172.8	4024.6	3986.9	3448.2	2613.1
32.5°	4479.9	4517.6	4514.9	4461.1	4350.6	4253.6	4326.4	4232.1	4205.1	3669.1	2753.1
35°	4628.1	4676.6	4671.2	4638.8	4496.1	4412.6	4501.5	4444.9	4426.0	3938.4	2955.2
37.5°	4867.8	4919.0	4873.2	4792.4	4628.1	4585.0	4692.7	4684.6	4671.2	4224.0	3168.0
40°	5449.7	5525.1	5403.9	5072.6	4803.2	4765.5	4919.0	4951.3	4937.9	4506.8	3359.3
42.5°	6058.5	6171.7	5983.1	5525.1	5121.0	4983.7	5166.8	5212.6	5196.5	4749.3	3531.7
45°	6427.6	6476.1	6287.5	5931.9	5684.1	5247.7	5430.8	5506.3	5492.8	5040.2	3752.6
47.5°	6729.3	6710.4	6494.9	6255.2	6301.0	5619.4	5729.9	5878.0	5867.3	5360.8	3995.0
50°	6793.9	6750.8	6664.6	6513.8	6635.0	5996.6	6045.0	6301.0	6290.2	5716.4	4240.2
52.5°	6338.7	6282.1	6516.5	6643.1	6602.7	6271.3	6392.6	6764.3	6758.9	6101.6	4474.5
55°	5201.9	5156.1	5786.4	6441.0	6567.7	6465.3	6777.8	7246.5	7276.1	6511.1	4687.3
57.5°	4092.0	4043.5	4663.1	5934.6	6438.4	6643.1	7227.7	7798.8	7836.5	6955.6	4889.4
60°	3262.3	3189.5	3663.7	5137.2	6195.9	6780.5	7661.4	8404.9	8410.3	7362.4	5013.3
62.5°	2217.1	2136.2	2661.5	4127.0	5789.1	6802.0	7995.4	8927.5	8949.0	7666.8	5034.8
65°	1346.9	1279.6	1635.2	3014.4	5188.4	6618.8	8000.8	9312.7	9331.6	7806.8	4905.5
67.5°	781.2	754.3	934.8	1877.6	4191.7	6125.9	7664.1	9253.4	9288.5	7747.6	4611.9
70°	455.3	452.6	519.9	929.4	2957.9	5148.0	6912.5	8755.1	8806.3	7437.8	4162.0
72.5°	334.0	339.4	366.4	498.4	1713.3	3706.8	5853.8	7753.0	7831.1	6831.7	3520.9
75°	264.0	266.7	290.9	339.4	899.8	2095.8	4385.6	6222.8	6284.8	5751.4	2750.4
77.5°	196.7	202.0	220.9	239.8	417.6	961.7	2467.6	3833.4	3731.0	3157.2	1328.1
80°	142.8	156.2	164.3	172.4	220.9	371.8	740.8	1336.2	1325.4	1379.3	627.7
82.5°	91.6	102.4	110.4	115.8	132.0	177.8	220.9	299.0	323.3	536.1	250.5
85°	40.4	45.8	51.2	62.0	56.6	62.0	91.6	59.3	51.2	80.8	45.8
87.5°	0.0	0.0	8.1	13.5	10.8	5.4	16.2	10.8	8.1	8.1	8.1
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°	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8
2.5°	1716.0	1686.4	1624.4	1565.1	1530.1	1484.3	1443.9	1406.2	1403.5	1392.7	1373.9
5°	1737.5	1681.0	1565.1	1454.7	1371.2	1282.3	1206.9	1147.6	1126.0	1109.9	1088.3
7.5°	1759.1	1670.2	1497.8	1336.2	1204.2	1080.2	991.3	910.5	886.3	864.7	851.3
10°	1767.2	1651.3	1419.7	1204.2	1031.8	899.8	805.5	746.2	724.7	713.9	705.8
12.5°	1791.4	1640.6	1346.9	1080.2	880.9	759.7	692.3	657.3	649.2	641.1	633.1
15°	1823.8	1640.6	1274.2	959.0	762.4	665.4	625.0	600.7	595.3	592.7	587.3
17.5°	1858.8	1640.6	1204.2	856.7	676.2	603.4	573.8	560.3	557.6	554.9	552.2
20°	1907.3	1643.3	1128.7	767.8	614.2	557.6	533.4	517.2	514.5	511.8	511.8
22.5°	1955.8	1648.6	1056.0	700.4	573.8	522.6	493.0	476.8	471.4	471.4	471.4
25°	2017.7	1664.8	988.7	643.8	538.8	490.3	452.6	439.1	436.4	436.4	433.7
27.5°	2090.4	1683.7	929.4	600.7	503.8	452.6	414.9	401.4	396.0	396.0	393.3
30°	2168.6	1702.5	880.9	568.4	468.7	414.9	379.8	363.7	358.3	361.0	358.3
32.5°	2254.8	1729.5	843.2	546.9	436.4	382.5	350.2	331.3	328.7	328.7	326.0
35°	2400.2	1804.9	837.8	536.1	409.5	358.3	326.0	307.1	304.4	304.4	301.7
37.5°	2556.5	1891.1	862.0	530.7	387.9	336.7	307.1	288.2	285.6	285.6	285.6
40°	2688.5	1955.8	889.0	530.7	374.4	317.9	290.9	274.8	274.8	274.8	274.8
42.5°	2777.4	1961.1	883.6	530.7	363.7	304.4	280.2	264.0	264.0	266.7	264.0
45°	2909.4	1988.1	862.0	522.6	355.6	293.6	269.4	255.9	253.2	255.9	255.9
47.5°	3065.6	2036.6	840.5	490.3	352.9	282.9	261.3	245.1	242.4	245.1	242.4
50°	3213.8	2079.7	829.7	447.2	347.5	272.1	250.5	234.4	231.7	234.4	231.7
52.5°	3337.7	2098.5	810.9	417.6	334.0	261.3	239.8	223.6	218.2	220.9	220.9
55°	3437.4	2093.1	783.9	393.3	309.8	250.5	226.3	212.8	204.7	204.7	202.0
57.5°	3529.0	2095.8	759.7	369.1	282.9	234.4	215.5	199.3	188.6	185.9	183.2
60°	3564.0	2082.4	716.6	336.7	255.9	220.9	202.0	183.2	172.4	169.7	167.0
62.5°	3515.5	2033.9	660.0	280.2	231.7	204.7	188.6	169.7	158.9	156.2	153.6
65°	3378.1	1942.3	573.8	220.9	210.1	185.9	172.4	158.9	145.5	140.1	137.4
67.5°	3143.7	1810.3	466.0	177.8	185.9	169.7	161.6	145.5	129.3	123.9	121.2
70°	2809.7	1635.2	350.2	150.9	164.3	150.9	145.5	129.3	115.8	110.4	107.8
72.5°	2341.0	1352.3	245.1	129.3	142.8	132.0	126.6	115.8	102.4	94.3	94.3
75°	1769.9	969.8	161.6	110.4	118.5	113.1	105.1	97.0	88.9	83.5	80.8
77.5°	762.4	377.1	99.7	83.5	97.0	94.3	83.5	78.1	75.4	70.0	70.0
80°	328.7	153.6	62.0	62.0	70.0	67.3	64.7	59.3	59.3	56.6	53.9
82.5°	121.2	62.0	37.7	45.8	51.2	45.8	45.8	45.8	45.8	43.1	43.1
85°	29.6	18.9	18.9	26.9	29.6	26.9	29.6	26.9	26.9	26.9	24.2
87.5°	8.1	8.1	10.8	10.8	10.8	10.8	10.8	8.1	0.0	0.0	0.0
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)