

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: P841001

Luminaire Tested: **ARCH4-120-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12488 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

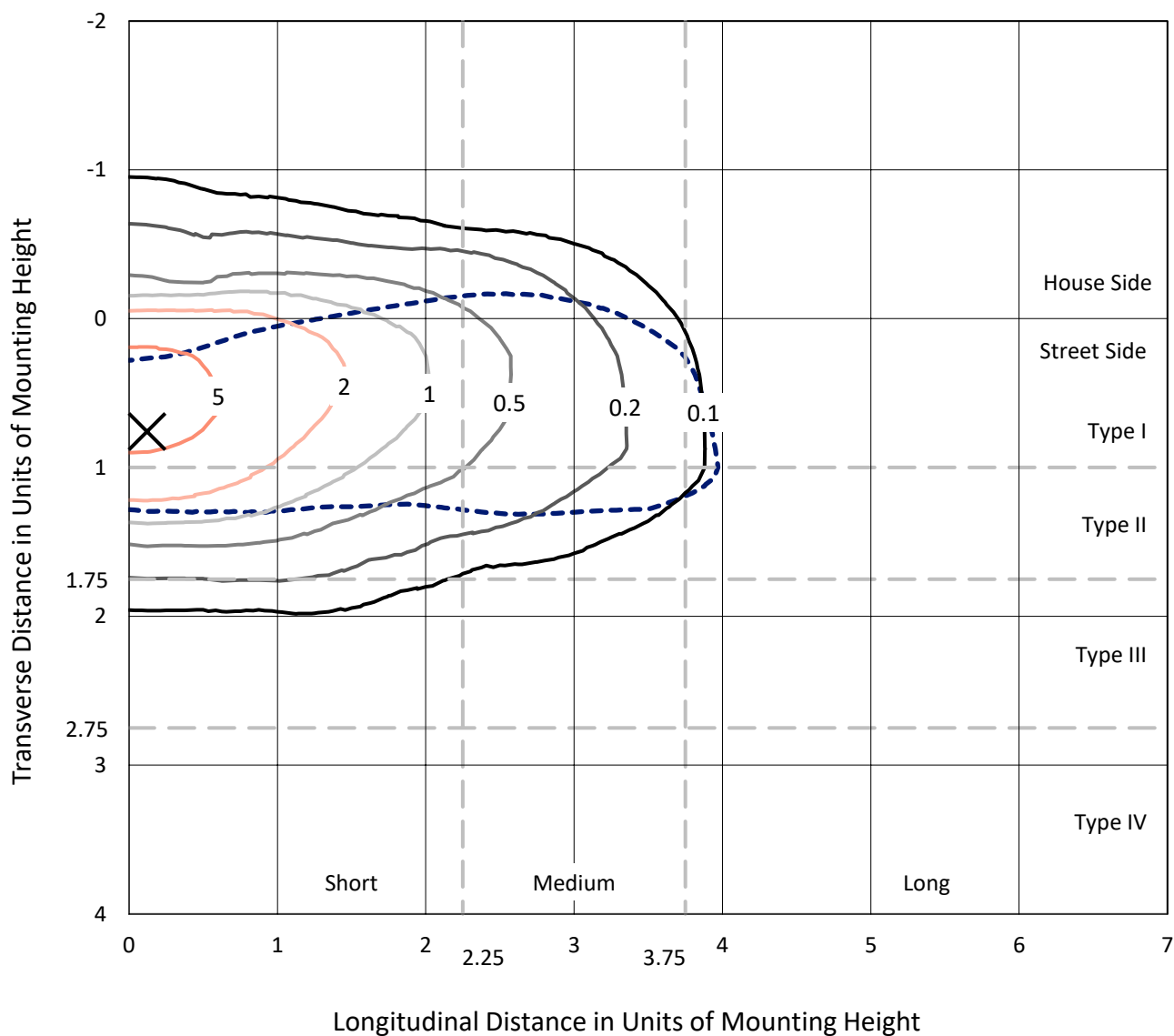
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

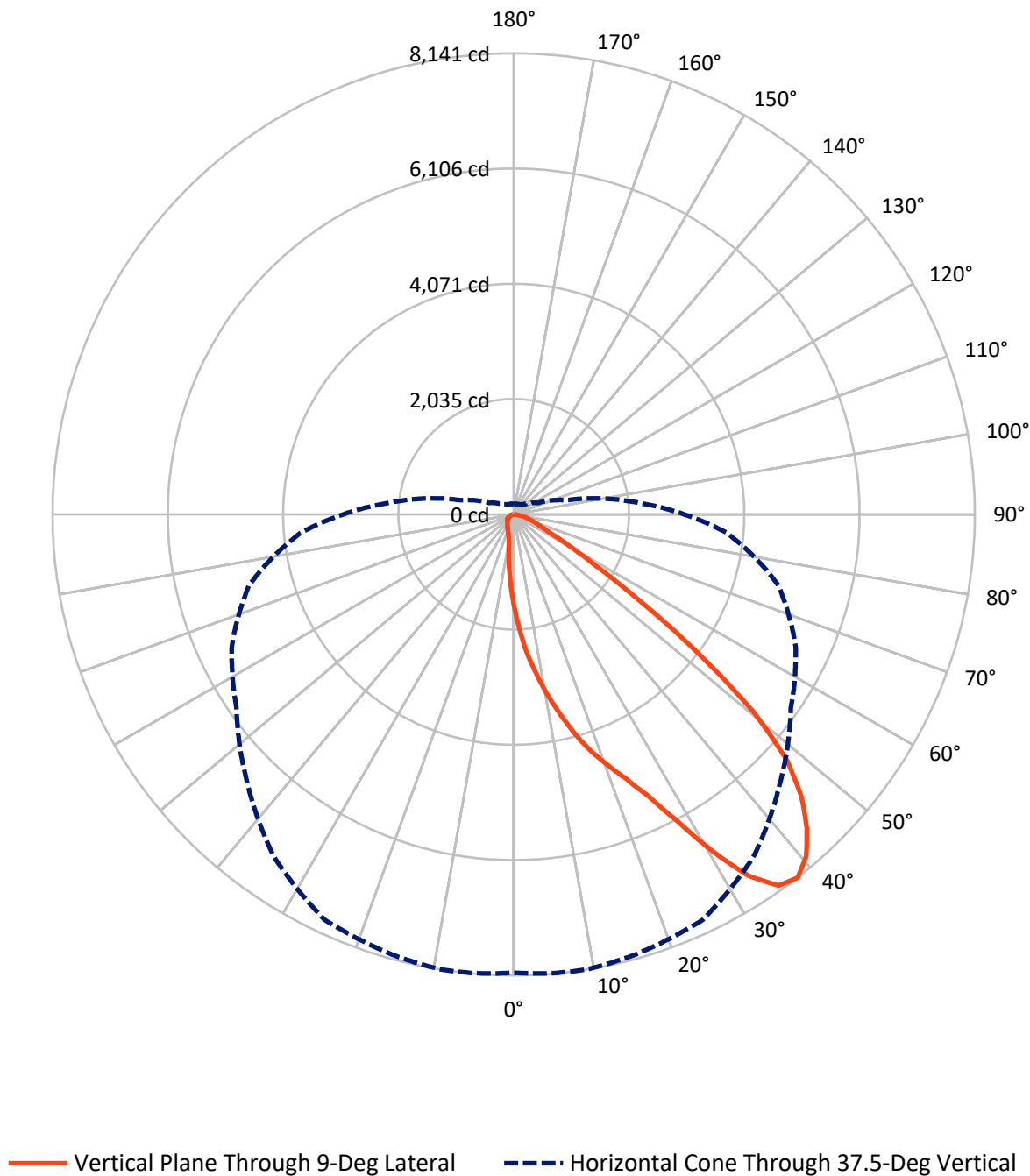
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.8	0.0	1518.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10969.2	0.0	10969.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	12488.0	0.0	12488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.3
10°-20°	576.7	4.6
20°-30°	1185.0	9.5
30°-40°	2094.6	16.8
40°-50°	2782.5	22.3
50°-60°	2639.0	21.1
60°-70°	2013.3	16.1
70°-80°	976.1	7.8
80°-90°	54.9	0.4
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°	12488.0	100.0
0°-180°	12488.0	100.0

Coefficient of Utilization



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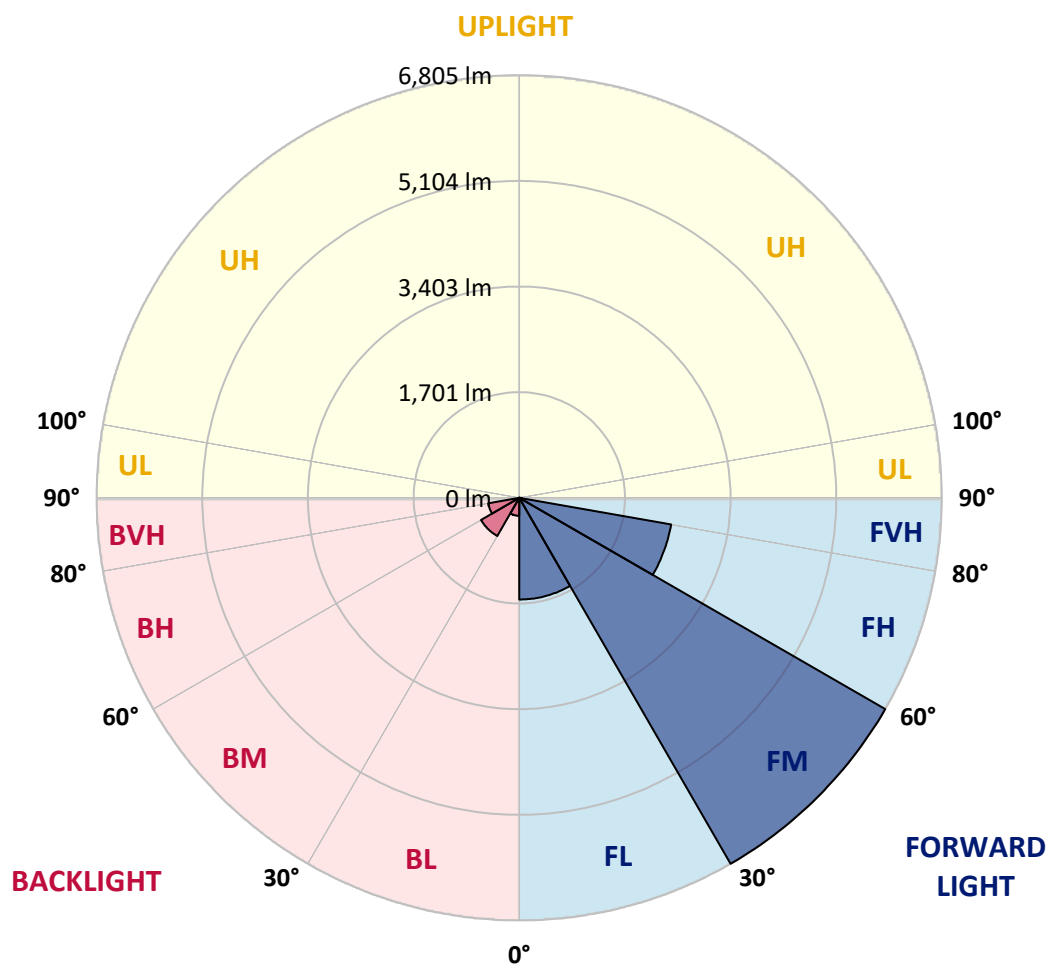
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.8	13.1			
FM	(30°-60°)	6805.4	54.5			
FH	(60°-80°)	2482.6	19.9			G2/5000
FVH	(80°-90°)	43.5	0.3			G1/100
BL	(0°-30°)	289.8	2.3	B1/500		
BM	(30°-60°)	710.7	5.7	B1/1000		
BH	(60°-80°)	506.8	4.1	B2/1000		G2/1000
BVH	(80°-90°)	11.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8
2.5°	2045.5	2009.6	2050.6	2045.5	2009.6	1986.6	1914.8	1891.7	1807.1	1745.6	1691.8
5°	2465.9	2430.0	2465.9	2455.6	2404.4	2348.0	2230.1	2153.2	2001.9	1868.6	1748.2
7.5°	2814.5	2814.5	2829.9	2832.4	2770.9	2683.8	2537.7	2422.3	2209.6	2004.5	1812.3
10°	3191.3	3193.9	3227.2	3204.1	3122.1	3004.2	2819.6	2673.5	2417.2	2148.0	1873.8
12.5°	3593.7	3596.3	3606.6	3596.3	3498.9	3347.7	3124.7	2932.4	2637.6	2312.1	1958.4
15°	3996.2	3998.7	4011.6	3993.6	3886.0	3709.1	3455.3	3219.5	2870.9	2496.7	2060.9
17.5°	4373.0	4378.1	4388.4	4365.3	4252.5	4042.3	3783.4	3498.9	3119.5	2694.0	2176.2
20°	4711.3	4716.5	4724.2	4693.4	4580.6	4370.4	4091.0	3793.7	3373.3	2896.5	2301.8
22.5°	5052.3	5057.4	5070.2	5029.2	4903.6	4662.6	4388.4	4080.8	3642.4	3119.5	2447.9
25°	5488.0	5493.1	5503.4	5444.4	5272.7	4990.7	4701.1	4385.8	3934.7	3370.7	2627.4
27.5°	6126.3	6121.2	6121.2	6013.5	5718.7	5352.2	5016.4	4696.0	4249.9	3639.9	2824.8
30°	6915.8	6903.0	6895.3	6749.2	6328.8	5759.7	5339.3	4985.6	4552.4	3924.4	3037.5
32.5°	7623.2	7623.2	7607.9	7454.1	7008.1	6308.3	5682.8	5267.6	4844.6	4211.5	3257.9
35°	8041.1	8059.0	8051.3	7936.0	7610.4	6897.8	6146.8	5605.9	5152.2	4511.4	3522.0
37.5°	8097.5	8133.3	8141.0	8071.8	7900.1	7379.7	6662.0	5972.5	5490.6	4834.4	3778.3
40°	7869.3	7946.2	7946.2	7936.0	7874.4	7607.9	7095.2	6398.0	5839.2	5170.2	4037.2
42.5°	7518.1	7597.6	7587.4	7625.8	7610.4	7554.0	7338.7	6795.3	6187.8	5516.2	4273.0
45°	7059.3	7141.3	7120.8	7190.0	7220.8	7282.3	7313.1	7072.1	6531.3	5893.0	4537.0
47.5°	6323.7	6462.1	6492.8	6615.9	6744.0	6936.3	7082.4	7172.1	6851.7	6298.0	4824.1
50°	5236.8	5431.6	5493.1	5752.0	6103.2	6500.5	6736.3	7049.1	7077.3	6713.3	5134.3
52.5°	3750.1	3975.7	4070.5	4496.0	5218.9	5911.0	6336.5	6777.4	7164.4	7110.6	5470.1
55°	2424.9	2617.1	2709.4	3109.3	4070.5	5157.4	5864.8	6426.2	7115.7	7474.6	5854.6
57.5°	1494.4	1604.6	1666.1	2009.6	2894.0	4191.0	5247.1	6103.2	6967.0	7789.9	6254.4
60°	1007.4	1071.5	1102.2	1263.7	1966.0	3132.3	4398.6	5764.9	6772.2	8002.6	6618.4
62.5°	669.0	689.5	720.3	820.3	1297.0	2199.3	3378.4	5159.9	6626.1	8015.4	6887.6
65°	517.8	528.0	540.9	584.4	799.7	1538.0	2376.2	4180.7	6408.2	7743.7	6972.2
67.5°	407.6	417.8	433.2	456.3	579.3	1043.3	1617.4	3063.1	5962.2	7318.2	6833.7
70°	320.4	328.1	338.4	358.9	451.1	756.2	1068.9	2035.3	5062.5	6913.2	6398.0
72.5°	253.8	261.5	271.7	292.2	366.6	553.7	733.1	1268.8	3903.9	6418.5	5559.8
75°	199.9	205.1	212.8	233.3	294.8	430.6	497.3	758.7	2653.0	5513.6	4332.0
77.5°	100.0	123.0	141.0	161.5	215.3	297.3	330.7	420.4	1120.2	2829.9	2066.0
80°	59.0	71.8	76.9	89.7	141.0	179.4	179.4	169.2	353.7	1086.8	843.3
82.5°	33.3	46.1	48.7	51.3	84.6	102.5	82.0	61.5	71.8	364.0	246.1
85°	10.3	15.4	17.9	20.5	28.2	30.8	28.2	25.6	20.5	35.9	23.1
87.5°	0.0	0.0	0.0	0.0	2.6	5.1	5.1	5.1	7.7	7.7	7.7
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°	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8
2.5°	1661.0	1627.7	1563.6	1504.7	1448.3	1407.2	1368.8	1332.9	1307.3	1286.8	1284.2
5°	1684.1	1617.4	1494.4	1379.1	1274.0	1186.8	1112.5	1053.5	1009.9	979.2	976.6
7.5°	1714.8	1612.3	1425.2	1253.5	1097.1	971.5	863.8	784.4	728.0	704.9	687.0
10°	1740.5	1607.2	1356.0	1127.9	922.8	763.9	635.7	556.2	515.2	499.8	492.2
12.5°	1784.1	1612.3	1297.0	1012.5	771.6	584.4	487.0	443.5	425.5	412.7	410.1
15°	1848.1	1635.4	1240.6	899.7	617.8	471.6	415.3	387.1	369.1	366.6	364.0
17.5°	1912.2	1655.9	1189.4	784.4	512.7	410.1	371.7	348.6	335.8	333.2	333.2
20°	1986.6	1681.5	1133.0	674.1	438.3	369.1	338.4	320.4	305.0	302.5	302.5
22.5°	2073.7	1717.4	1079.1	576.7	389.6	338.4	312.7	292.2	279.4	276.8	276.8
25°	2191.6	1771.2	1035.6	505.0	356.3	312.7	289.7	271.7	261.5	256.3	256.3
27.5°	2322.3	1845.6	1004.8	461.4	333.2	292.2	269.1	253.8	243.5	238.4	238.4
30°	2468.5	1927.6	984.3	443.5	320.4	274.3	253.8	238.4	225.6	223.0	223.0
32.5°	2629.9	2022.4	971.5	446.0	317.8	261.5	238.4	223.0	212.8	207.6	207.6
35°	2809.4	2127.5	963.8	461.4	323.0	251.2	225.6	210.2	199.9	194.8	194.8
37.5°	3009.3	2250.6	963.8	476.8	335.8	248.6	212.8	197.4	189.7	184.6	184.6
40°	3196.4	2381.3	974.1	494.7	348.6	248.6	202.5	189.7	179.4	174.3	174.3
42.5°	3342.5	2455.6	981.7	512.7	356.3	246.1	192.2	179.4	171.7	166.6	166.6
45°	3509.2	2535.1	966.4	520.3	356.3	240.9	184.6	171.7	164.1	158.9	158.9
47.5°	3693.7	2632.5	963.8	525.5	348.6	230.7	176.9	164.1	158.9	153.8	153.8
50°	3880.8	2740.2	968.9	522.9	338.4	215.3	166.6	158.9	151.2	146.1	146.1
52.5°	4093.6	2852.9	979.2	517.8	315.3	197.4	158.9	151.2	143.5	138.4	135.9
55°	4329.4	2976.0	999.7	507.5	284.5	179.4	151.2	143.5	133.3	128.2	125.6
57.5°	4601.1	3127.2	1022.8	487.0	251.2	164.1	143.5	133.3	117.9	110.2	107.7
60°	4860.0	3299.0	1048.4	438.3	217.9	148.7	135.9	120.5	105.1	100.0	97.4
62.5°	5103.5	3468.1	1061.2	351.2	184.6	135.9	128.2	110.2	94.8	89.7	87.2
65°	5259.9	3652.7	1033.0	238.4	151.2	125.6	117.9	102.5	87.2	79.5	79.5
67.5°	5270.1	3739.8	935.6	156.4	123.0	112.8	107.7	92.3	76.9	71.8	69.2
70°	5011.2	3609.1	715.2	123.0	102.5	97.4	97.4	82.0	66.6	61.5	59.0
72.5°	4416.6	3196.4	456.3	100.0	87.2	82.0	82.0	69.2	59.0	51.3	48.7
75°	3486.1	2465.9	243.5	82.0	71.8	69.2	64.1	56.4	48.7	43.6	41.0
77.5°	1602.1	1086.8	112.8	59.0	53.8	53.8	48.7	41.0	38.4	33.3	33.3
80°	633.1	369.1	56.4	38.4	35.9	35.9	35.9	28.2	28.2	23.1	20.5
82.5°	174.3	76.9	28.2	23.1	23.1	23.1	20.5	17.9	17.9	15.4	15.4
85°	17.9	12.8	12.8	12.8	12.8	10.3	10.3	7.7	5.1	5.1	5.1
87.5°	7.7	7.7	7.7	7.7	7.7	5.1	2.6	0.0	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)