

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: P835946

Luminaire Tested: **ARCH3-120-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11285 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.7
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

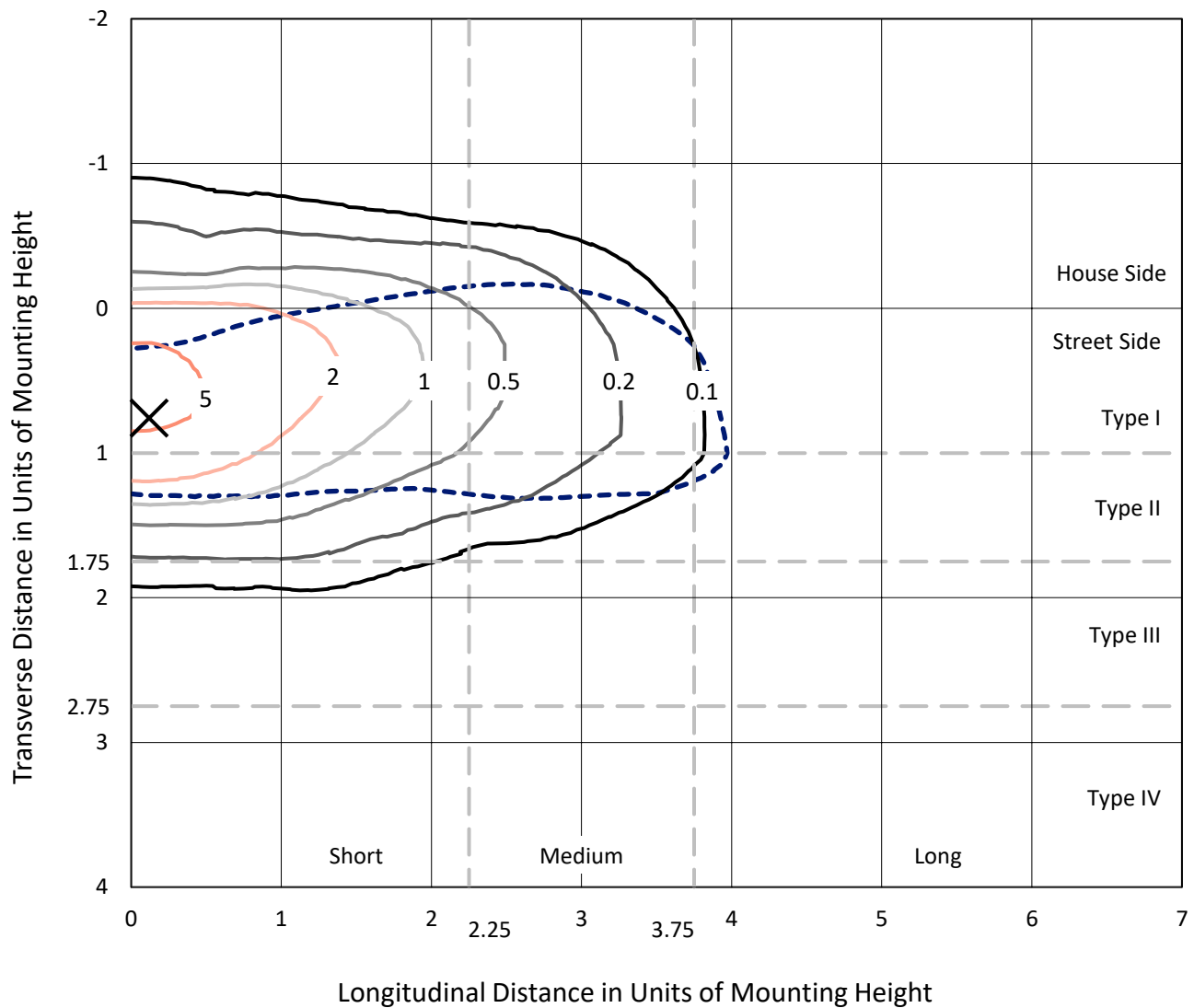


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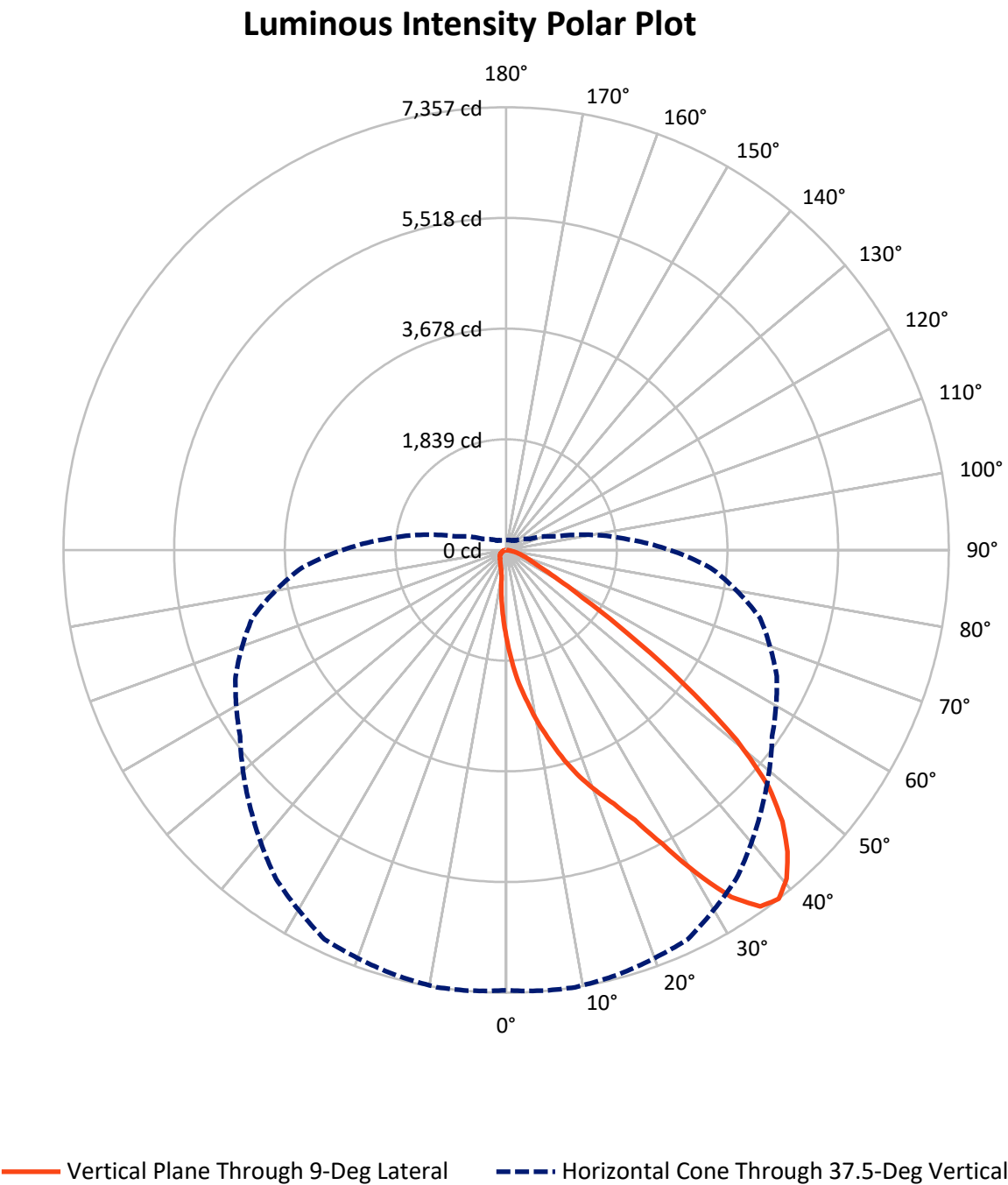
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.5	0.0	1372.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9912.5	0.0	9912.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	11285.0	0.0	11285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	1.3
10°-20°	521.2	4.6
20°-30°	1070.8	9.5
30°-40°	1892.8	16.8
40°-50°	2514.4	22.3
50°-60°	2384.8	21.1
60°-70°	1819.4	16.1
70°-80°	882.0	7.8
80°-90°	49.6	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°	11285.0	100.0
0°-180°	11285.0	100.0

Coefficient of Utilization



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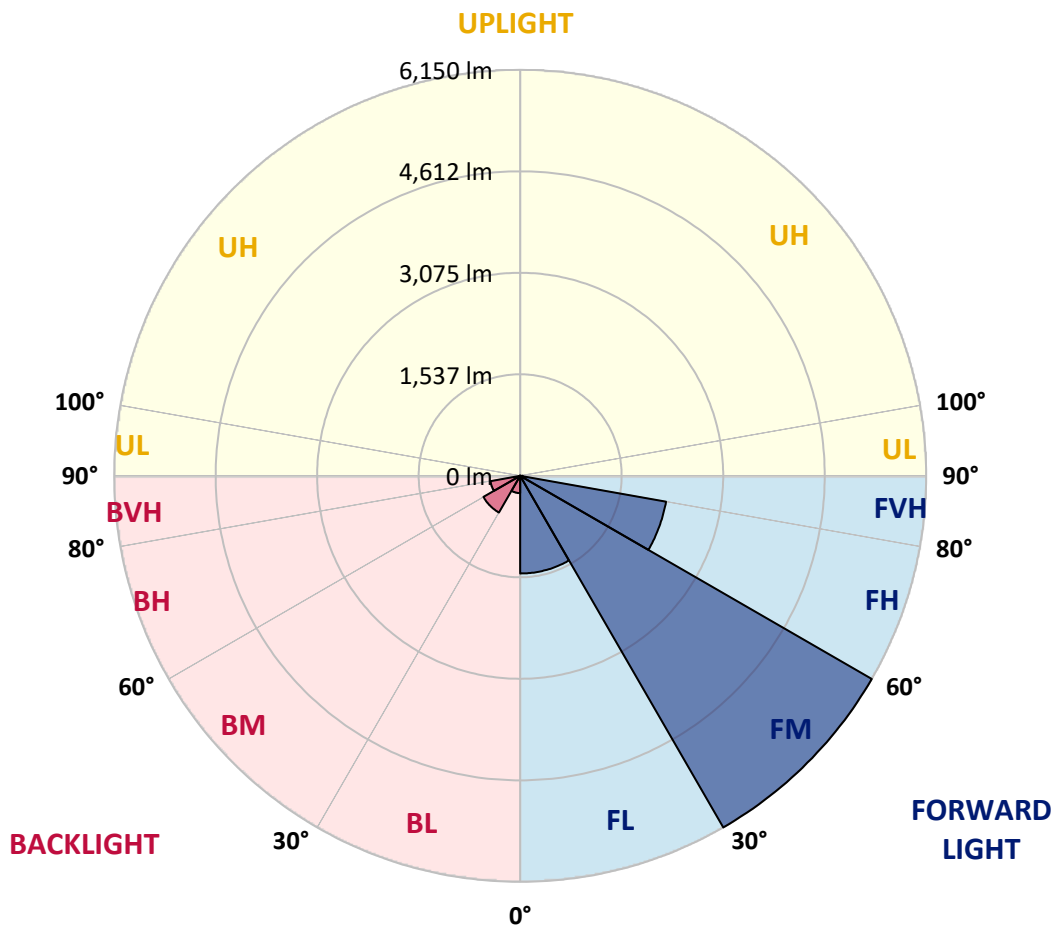
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.0	13.1			
FM	(30°-60°)	6149.8	54.5			
FH	(60°-80°)	2243.4	19.9			G2/5000
FVH	(80°-90°)	39.3	0.3			G1/100
BL	(0°-30°)	261.9	2.3	B1/500		
BM	(30°-60°)	642.2	5.7	B1/1000		
BH	(60°-80°)	458.0	4.1	B1/500		G1/500
BVH	(80°-90°)	10.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7
2.5°	1848.5	1816.0	1853.1	1848.5	1816.0	1795.2	1730.3	1709.5	1633.0	1577.4	1528.8
5°	2228.3	2195.9	2228.3	2219.1	2172.8	2121.8	2015.2	1945.7	1809.1	1688.6	1579.8
7.5°	2543.4	2543.4	2557.3	2559.6	2504.0	2425.2	2293.2	2189.0	1996.7	1811.4	1637.7
10°	2883.9	2886.2	2916.3	2895.5	2821.3	2714.8	2548.0	2416.0	2184.3	1941.1	1693.3
12.5°	3247.5	3249.9	3259.1	3249.9	3161.8	3025.2	2823.7	2649.9	2383.5	2089.4	1769.7
15°	3611.2	3613.5	3625.1	3608.9	3511.6	3351.8	3122.5	2909.4	2594.3	2256.1	1862.4
17.5°	3951.7	3956.4	3965.6	3944.8	3842.9	3652.9	3419.0	3161.8	2819.0	2434.5	1966.6
20°	4257.5	4262.1	4269.1	4241.3	4139.3	3949.4	3696.9	3428.2	3048.3	2617.5	2080.1
22.5°	4565.6	4570.2	4581.8	4544.7	4431.2	4213.5	3965.6	3687.7	3291.6	2819.0	2212.1
25°	4959.3	4964.0	4973.2	4920.0	4764.8	4510.0	4248.2	3963.3	3555.6	3046.0	2374.3
27.5°	5536.1	5531.5	5531.5	5434.2	5167.8	4836.6	4533.1	4243.6	3840.5	3289.2	2552.6
30°	6249.6	6238.0	6231.0	6099.0	5719.1	5204.9	4825.0	4505.3	4113.9	3546.4	2744.9
32.5°	6888.9	6888.9	6875.0	6736.0	6332.9	5700.6	5135.4	4760.1	4377.9	3805.8	2944.1
35°	7266.4	7282.7	7275.7	7171.5	6877.3	6233.3	5554.6	5065.9	4655.9	4076.8	3182.7
37.5°	7317.4	7349.8	7356.8	7294.2	7139.0	6668.8	6020.2	5397.1	4961.7	4368.7	3414.3
40°	7111.2	7180.7	7180.7	7171.5	7115.9	6875.0	6411.7	5781.7	5276.7	4672.1	3648.3
42.5°	6793.9	6865.7	6856.4	6891.2	6877.3	6826.3	6631.8	6140.7	5591.7	4984.8	3861.4
45°	6379.3	6453.4	6434.9	6497.4	6525.2	6580.8	6608.6	6390.9	5902.1	5325.3	4100.0
47.5°	5714.5	5839.6	5867.4	5978.5	6094.4	6268.1	6400.1	6481.2	6191.6	5691.3	4359.4
50°	4732.3	4908.4	4964.0	5197.9	5515.3	5874.3	6087.4	6370.0	6395.5	6066.6	4639.7
52.5°	3388.8	3592.7	3678.4	4062.9	4716.1	5341.5	5726.1	6124.5	6474.2	6425.6	4943.1
55°	2191.3	2365.0	2448.4	2809.8	3678.4	4660.5	5299.8	5807.1	6430.2	6754.5	5290.6
57.5°	1350.4	1450.0	1505.6	1816.0	2615.2	3787.3	4741.6	5515.3	6295.9	7039.4	5651.9
60°	910.3	968.2	996.0	1142.0	1776.7	2830.6	3974.9	5209.5	6119.8	7231.7	5980.9
62.5°	604.6	623.1	650.9	741.2	1172.1	1987.4	3053.0	4662.8	5987.8	7243.3	6224.1
65°	467.9	477.2	488.8	528.1	722.7	1389.8	2147.3	3778.0	5790.9	6997.7	6300.5
67.5°	368.3	377.6	391.5	412.3	523.5	942.8	1461.6	2768.1	5387.9	6613.2	6175.4
70°	289.5	296.5	305.8	324.3	407.7	683.3	965.9	1839.2	4574.8	6247.2	5781.7
72.5°	229.3	236.3	245.5	264.1	331.2	500.3	662.5	1146.6	3527.8	5800.2	5024.2
75°	180.7	185.3	192.3	210.8	266.4	389.1	449.4	685.6	2397.4	4982.5	3914.7
77.5°	90.3	111.2	127.4	145.9	194.6	268.7	298.8	379.9	1012.3	2557.3	1867.0
80°	53.3	64.9	69.5	81.1	127.4	162.1	162.1	152.9	319.7	982.1	762.1
82.5°	30.1	41.7	44.0	46.3	76.4	92.7	74.1	55.6	64.9	328.9	222.4
85°	9.3	13.9	16.2	18.5	25.5	27.8	25.5	23.2	18.5	32.4	20.8
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	4.6	4.6	6.9	6.9	6.9
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°	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7
2.5°	1501.0	1470.9	1413.0	1359.7	1308.7	1271.7	1236.9	1204.5	1181.3	1162.8	1160.5
5°	1521.9	1461.6	1350.4	1246.2	1151.2	1072.5	1005.3	952.0	912.6	884.9	882.5
7.5°	1549.6	1457.0	1287.9	1132.7	991.4	877.9	780.6	708.8	657.8	637.0	620.8
10°	1572.8	1452.4	1225.4	1019.2	833.9	690.3	574.5	502.7	465.6	451.7	444.7
12.5°	1612.2	1457.0	1172.1	915.0	697.2	528.1	440.1	400.7	384.5	372.9	370.6
15°	1670.1	1477.8	1121.1	813.0	558.2	426.2	375.3	349.8	333.6	331.2	328.9
17.5°	1728.0	1496.4	1074.8	708.8	463.3	370.6	335.9	315.0	303.4	301.1	301.1
20°	1795.2	1519.5	1023.8	609.2	396.1	333.6	305.8	289.5	275.6	273.3	273.3
22.5°	1873.9	1552.0	975.2	521.2	352.1	305.8	282.6	264.1	252.5	250.2	250.2
25°	1980.5	1600.6	935.8	456.3	322.0	282.6	261.7	245.5	236.3	231.6	231.6
27.5°	2098.6	1667.8	908.0	416.9	301.1	264.1	243.2	229.3	220.1	215.4	215.4
30°	2230.7	1741.9	889.5	400.7	289.5	247.9	229.3	215.4	203.8	201.5	201.5
32.5°	2376.6	1827.6	877.9	403.0	287.2	236.3	215.4	201.5	192.3	187.6	187.6
35°	2538.7	1922.6	871.0	416.9	291.9	227.0	203.8	189.9	180.7	176.0	176.0
37.5°	2719.4	2033.8	871.0	430.8	303.4	224.7	192.3	178.4	171.4	166.8	166.8
40°	2888.5	2151.9	880.2	447.1	315.0	224.7	183.0	171.4	162.1	157.5	157.5
42.5°	3020.5	2219.1	887.2	463.3	322.0	222.4	173.7	162.1	155.2	150.6	150.6
45°	3171.1	2290.9	873.3	470.2	322.0	217.7	166.8	155.2	148.2	143.6	143.6
47.5°	3337.9	2378.9	871.0	474.9	315.0	208.5	159.8	148.2	143.6	139.0	139.0
50°	3507.0	2476.2	875.6	472.5	305.8	194.6	150.6	143.6	136.7	132.0	132.0
52.5°	3699.2	2578.1	884.9	467.9	284.9	178.4	143.6	136.7	129.7	125.1	122.8
55°	3912.3	2689.3	903.4	458.6	257.1	162.1	136.7	129.7	120.5	115.8	113.5
57.5°	4157.9	2826.0	924.2	440.1	227.0	148.2	129.7	120.5	106.6	99.6	97.3
60°	4391.8	2981.2	947.4	396.1	196.9	134.3	122.8	108.9	95.0	90.3	88.0
62.5°	4611.9	3134.0	959.0	317.3	166.8	122.8	115.8	99.6	85.7	81.1	78.8
65°	4753.2	3300.8	933.5	215.4	136.7	113.5	106.6	92.7	78.8	71.8	71.8
67.5°	4762.5	3379.6	845.5	141.3	111.2	101.9	97.3	83.4	69.5	64.9	62.5
70°	4528.5	3261.4	646.3	111.2	92.7	88.0	88.0	74.1	60.2	55.6	53.3
72.5°	3991.1	2888.5	412.3	90.3	78.8	74.1	74.1	62.5	53.3	46.3	44.0
75°	3150.3	2228.3	220.1	74.1	64.9	62.5	57.9	51.0	44.0	39.4	37.1
77.5°	1447.7	982.1	101.9	53.3	48.6	48.6	44.0	37.1	34.7	30.1	30.1
80°	572.1	333.6	51.0	34.7	32.4	32.4	32.4	25.5	25.5	20.8	18.5
82.5°	157.5	69.5	25.5	20.8	20.8	20.8	18.5	16.2	16.2	13.9	13.9
85°	16.2	11.6	11.6	11.6	11.6	9.3	9.3	6.9	4.6	4.6	4.6
87.5°	6.9	6.9	6.9	6.9	6.9	4.6	2.3	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)