

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: P836495

Luminaire Tested: **ARCH3-190-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836495
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: ARCH3-190-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1440mA 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: 18206 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

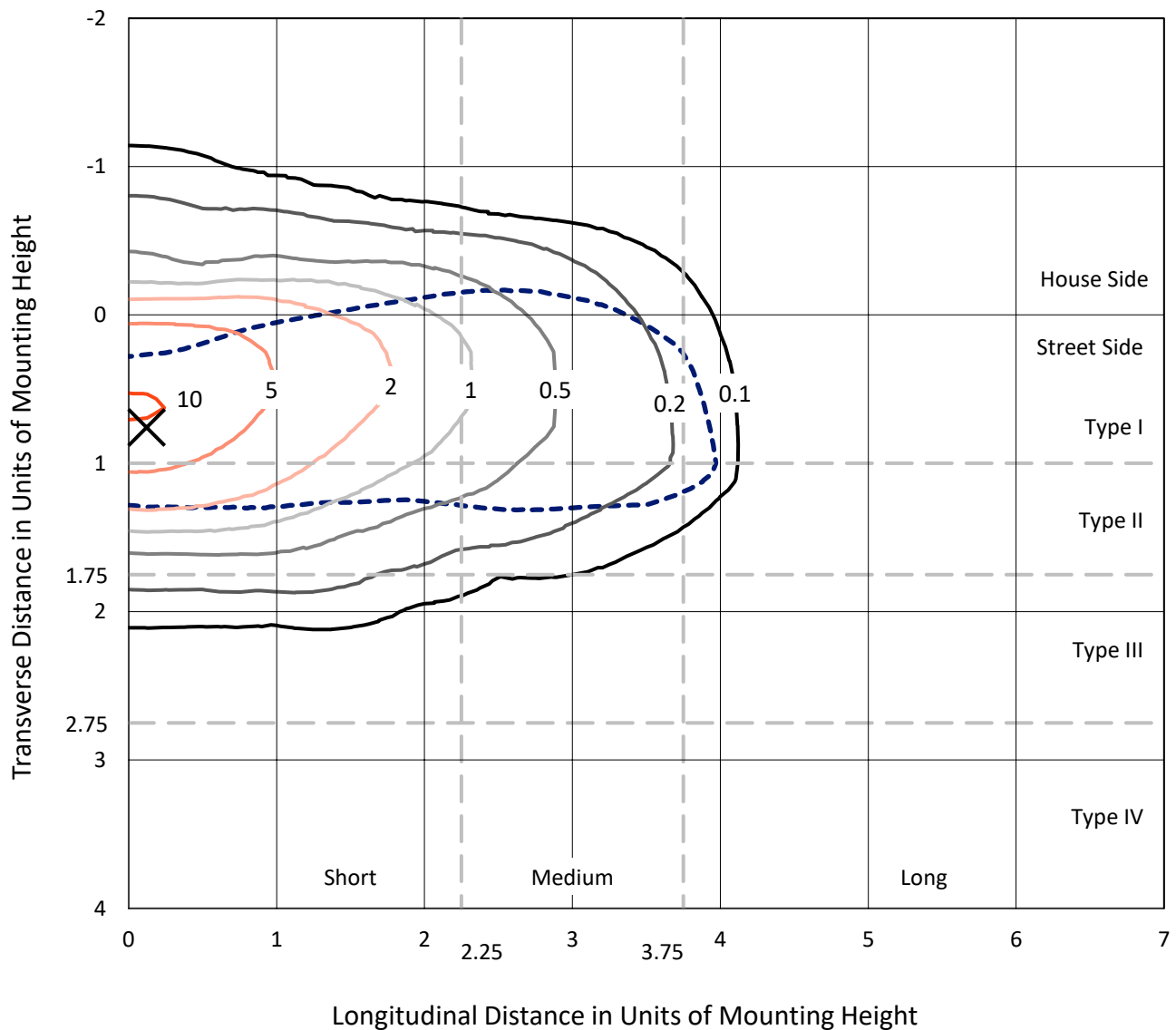
Input Watts (W): 189.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

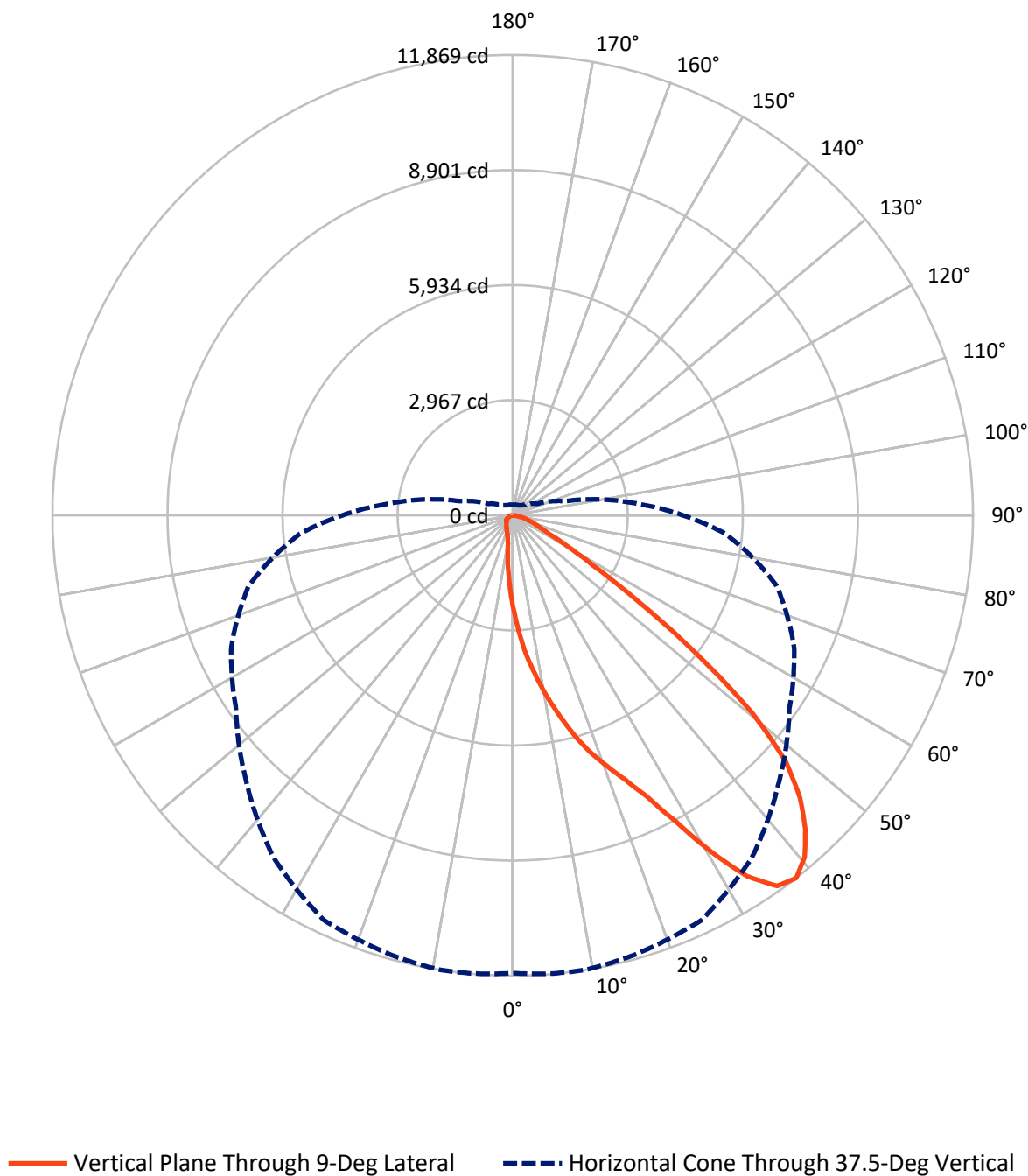
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	2214.2	0.0	2214.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15991.8	0.0	15991.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	18206.0	0.0	18206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.3
10°-20°	840.8	4.6
20°-30°	1727.6	9.5
30°-40°	3053.6	16.8
40°-50°	4056.5	22.3
50°-60°	3847.3	21.1
60°-70°	2935.2	16.1
70°-80°	1423.0	7.8
80°-90°	80.1	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°	18206.0	100.0
0°-180°	18206.0	100.0

Coefficient of Utilization



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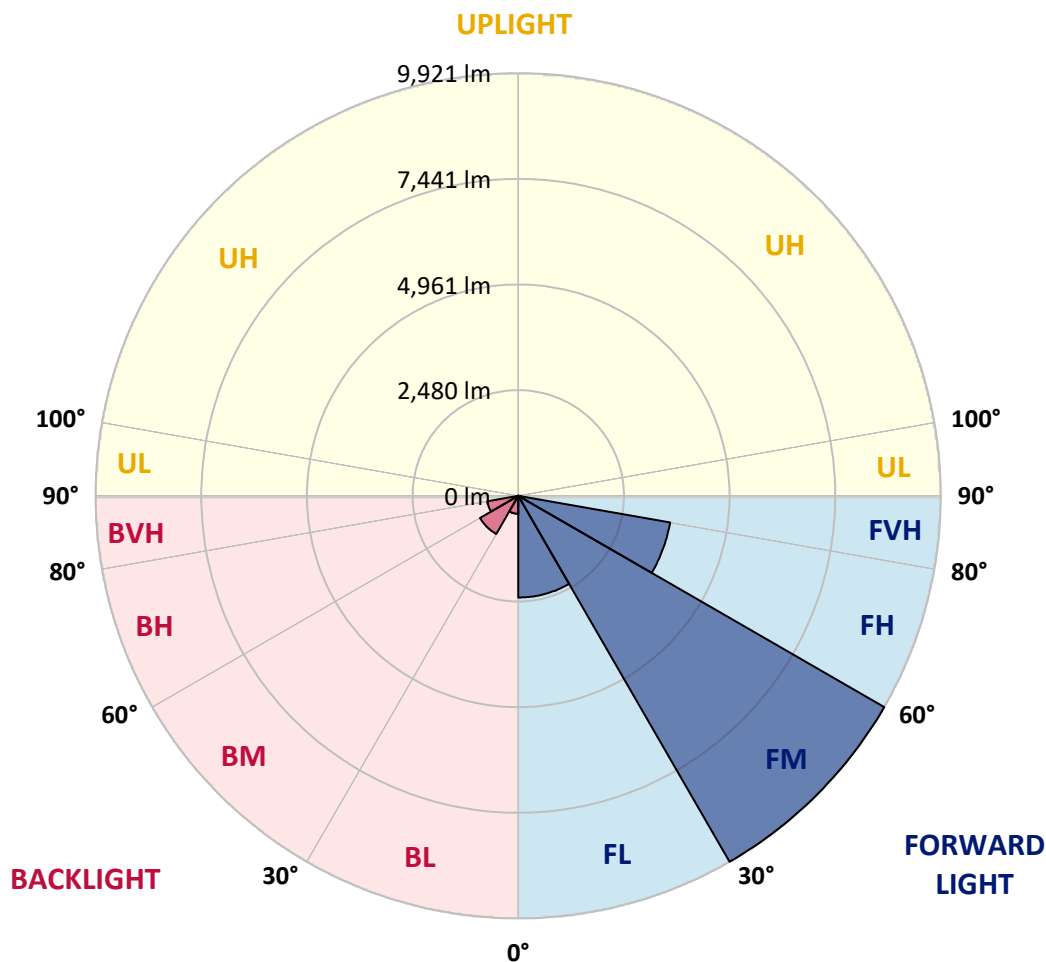
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2387.7	13.1			
FM	(30°-60°)	9921.4	54.5			
FH	(60°-80°)	3619.3	19.9			G2/5000
FVH	(80°-90°)	63.4	0.3			G1/100
BL	(0°-30°)	422.5	2.3	B1/500		
BM	(30°-60°)	1036.1	5.7	B2/2500		
BH	(60°-80°)	738.9	4.1	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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°	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6
2.5°	2982.1	2929.8	2989.6	2982.1	2929.8	2896.2	2791.5	2757.9	2634.6	2544.9	2466.4
5°	3595.0	3542.7	3595.0	3580.0	3505.3	3423.1	3251.2	3139.1	2918.6	2724.3	2548.6
7.5°	4103.2	4103.2	4125.6	4129.4	4039.7	3912.6	3699.6	3531.4	3221.3	2922.3	2642.0
10°	4652.5	4656.3	4704.9	4671.2	4551.6	4379.7	4110.7	3897.7	3524.0	3131.6	2731.7
12.5°	5239.2	5243.0	5257.9	5243.0	5101.0	4880.5	4555.4	4275.1	3845.3	3370.8	2855.1
15°	5825.9	5829.7	5848.4	5822.2	5665.3	5407.4	5037.4	4693.6	4185.4	3639.8	3004.5
17.5°	6375.3	6382.8	6397.7	6364.1	6199.6	5893.2	5515.8	5101.0	4547.9	3927.6	3172.7
20°	6868.6	6876.0	6887.2	6842.4	6678.0	6371.5	5964.2	5530.7	4917.9	4222.8	3355.8
22.5°	7365.6	7373.1	7391.7	7331.9	7148.8	6797.6	6397.7	5949.3	5310.2	4547.9	3568.8
25°	8000.9	8008.3	8023.3	7937.3	7687.0	7275.9	6853.6	6394.0	5736.3	4914.1	3830.4
27.5°	8931.4	8923.9	8923.9	8766.9	8337.2	7802.8	7313.3	6846.1	6195.9	5306.5	4118.1
30°	10082.4	10063.7	10052.5	9839.5	9226.6	8397.0	7784.1	7268.4	6636.9	5721.3	4428.3
32.5°	11113.8	11113.8	11091.3	10867.1	10216.9	9196.7	8284.9	7679.5	7062.9	6139.9	4749.7
35°	11722.9	11749.1	11737.8	11569.7	11095.1	10056.2	8961.3	8172.8	7511.3	6577.1	5134.6
37.5°	11805.1	11857.4	11868.6	11767.7	11517.4	10758.8	9712.4	8707.2	8004.6	7047.9	5508.3
40°	11472.5	11584.6	11584.6	11569.7	11480.0	11091.3	10344.0	9327.5	8512.8	7537.5	5885.7
42.5°	10960.6	11076.4	11061.5	11117.5	11095.1	11012.9	10699.0	9906.7	9021.1	8042.0	6229.5
45°	10291.6	10411.2	10381.3	10482.2	10527.1	10616.8	10661.6	10310.3	9521.8	8591.3	6614.4
47.5°	9219.1	9420.9	9465.8	9645.1	9832.0	10112.3	10325.3	10456.1	9988.9	9181.8	7033.0
50°	7634.6	7918.7	8008.3	8385.8	8897.7	9477.0	9820.8	10276.7	10317.8	9787.1	7485.2
52.5°	5467.2	5796.1	5934.3	6554.7	7608.5	8617.5	9237.8	9880.6	10444.8	10366.4	7974.7
55°	3535.2	3815.5	3950.0	4533.0	5934.3	7518.8	8550.2	9368.6	10373.8	10897.0	8535.3
57.5°	2178.7	2339.3	2429.0	2929.8	4219.0	6110.0	7649.6	8897.7	10157.1	11356.7	9118.2
60°	1468.6	1562.1	1606.9	1842.3	2866.3	4566.6	6412.7	8404.5	9873.1	11666.8	9648.9
62.5°	975.4	1005.2	1050.1	1195.8	1890.9	3206.3	4925.3	7522.5	9660.1	11685.5	10041.3
65°	754.9	769.8	788.5	852.0	1165.9	2242.2	3464.2	6095.0	9342.4	11289.4	10164.6
67.5°	594.2	609.1	631.5	665.2	844.6	1520.9	2358.0	4465.7	8692.2	10669.1	9962.8
70°	467.1	478.3	493.3	523.2	657.7	1102.4	1558.3	2967.2	7380.5	10078.6	9327.5
72.5°	370.0	381.2	396.1	426.0	534.4	807.2	1068.8	1849.8	5691.4	9357.4	8105.5
75°	291.5	299.0	310.2	340.1	429.8	627.8	725.0	1106.1	3867.8	8038.2	6315.5
77.5°	145.7	179.4	205.5	235.4	313.9	433.5	482.1	612.9	1633.1	4125.6	3012.0
80°	86.0	104.6	112.1	130.8	205.5	261.6	261.6	246.6	515.7	1584.5	1229.5
82.5°	48.6	67.3	71.0	74.7	123.3	149.5	119.6	89.7	104.6	530.7	358.7
85°	14.9	22.4	26.2	29.9	41.1	44.8	41.1	37.4	29.9	52.3	33.6
87.5°	0.0	0.0	0.0	0.0	3.7	7.5	7.5	7.5	11.2	11.2	11.2
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°	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6	2406.6
2.5°	2421.6	2373.0	2279.6	2193.6	2111.4	2051.6	1995.5	1943.2	1905.9	1876.0	1872.2
5°	2455.2	2358.0	2178.7	2010.5	1857.3	1730.2	1621.8	1535.9	1472.4	1427.5	1423.8
7.5°	2500.0	2350.6	2077.8	1827.4	1599.4	1416.3	1259.4	1143.5	1061.3	1027.7	1001.5
10°	2537.4	2343.1	1976.9	1644.3	1345.3	1113.6	926.8	810.9	751.1	728.7	717.5
12.5°	2600.9	2350.6	1890.9	1476.1	1124.8	852.0	710.0	646.5	620.3	601.7	597.9
15°	2694.4	2384.2	1808.7	1311.7	900.6	687.6	605.4	564.3	538.1	534.4	530.7
17.5°	2787.8	2414.1	1734.0	1143.5	747.4	597.9	541.9	508.2	489.5	485.8	485.8
20°	2896.2	2451.5	1651.7	982.8	639.0	538.1	493.3	467.1	444.7	441.0	441.0
22.5°	3023.2	2503.8	1573.3	840.8	568.0	493.3	455.9	426.0	407.3	403.6	403.6
25°	3195.1	2582.3	1509.7	736.2	519.4	455.9	422.3	396.1	381.2	373.7	373.7
27.5°	3385.7	2690.6	1464.9	672.7	485.8	426.0	392.4	370.0	355.0	347.5	347.5
30°	3598.7	2810.2	1435.0	646.5	467.1	399.9	370.0	347.5	328.9	325.1	325.1
32.5°	3834.1	2948.5	1416.3	650.2	463.4	381.2	347.5	325.1	310.2	302.7	302.7
35°	4095.7	3101.7	1405.1	672.7	470.9	366.2	328.9	306.4	291.5	284.0	284.0
37.5°	4387.2	3281.1	1405.1	695.1	489.5	362.5	310.2	287.7	276.5	269.1	269.1
40°	4660.0	3471.7	1420.1	721.2	508.2	362.5	295.2	276.5	261.6	254.1	254.1
42.5°	4873.0	3580.0	1431.3	747.4	519.4	358.7	280.3	261.6	250.4	242.9	242.9
45°	5115.9	3695.9	1408.8	758.6	519.4	351.3	269.1	250.4	239.2	231.7	231.7
47.5°	5385.0	3837.9	1405.1	766.1	508.2	336.3	257.9	239.2	231.7	224.2	224.2
50°	5657.8	3994.8	1412.6	762.3	493.3	313.9	242.9	231.7	220.5	213.0	213.0
52.5°	5968.0	4159.3	1427.5	754.9	459.6	287.7	231.7	220.5	209.3	201.8	198.1
55°	6311.8	4338.6	1457.4	739.9	414.8	261.6	220.5	209.3	194.3	186.8	183.1
57.5°	6707.9	4559.1	1491.1	710.0	366.2	239.2	209.3	194.3	171.9	160.7	157.0
60°	7085.3	4809.5	1528.4	639.0	317.6	216.7	198.1	175.6	153.2	145.7	142.0
62.5°	7440.3	5056.1	1547.1	512.0	269.1	198.1	186.8	160.7	138.3	130.8	127.1
65°	7668.3	5325.2	1506.0	347.5	220.5	183.1	171.9	149.5	127.1	115.8	115.8
67.5°	7683.2	5452.2	1364.0	228.0	179.4	164.4	157.0	134.5	112.1	104.6	100.9
70°	7305.8	5261.7	1042.6	179.4	149.5	142.0	142.0	119.6	97.2	89.7	86.0
72.5°	6438.8	4660.0	665.2	145.7	127.1	119.6	119.6	100.9	86.0	74.7	71.0
75°	5082.3	3595.0	355.0	119.6	104.6	100.9	93.4	82.2	71.0	63.5	59.8
77.5°	2335.6	1584.5	164.4	86.0	78.5	78.5	71.0	59.8	56.1	48.6	48.6
80°	923.0	538.1	82.2	56.1	52.3	52.3	52.3	41.1	41.1	33.6	29.9
82.5°	254.1	112.1	41.1	33.6	33.6	33.6	29.9	26.2	26.2	22.4	22.4
85°	26.2	18.7	18.7	18.7	18.7	14.9	14.9	11.2	7.5	7.5	7.5
87.5°	11.2	11.2	11.2	11.2	11.2	7.5	3.7	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)