

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: P1211124

Luminaire Tested: **ARCH4-180-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211124
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: ARCH4-180-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17346 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 180
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

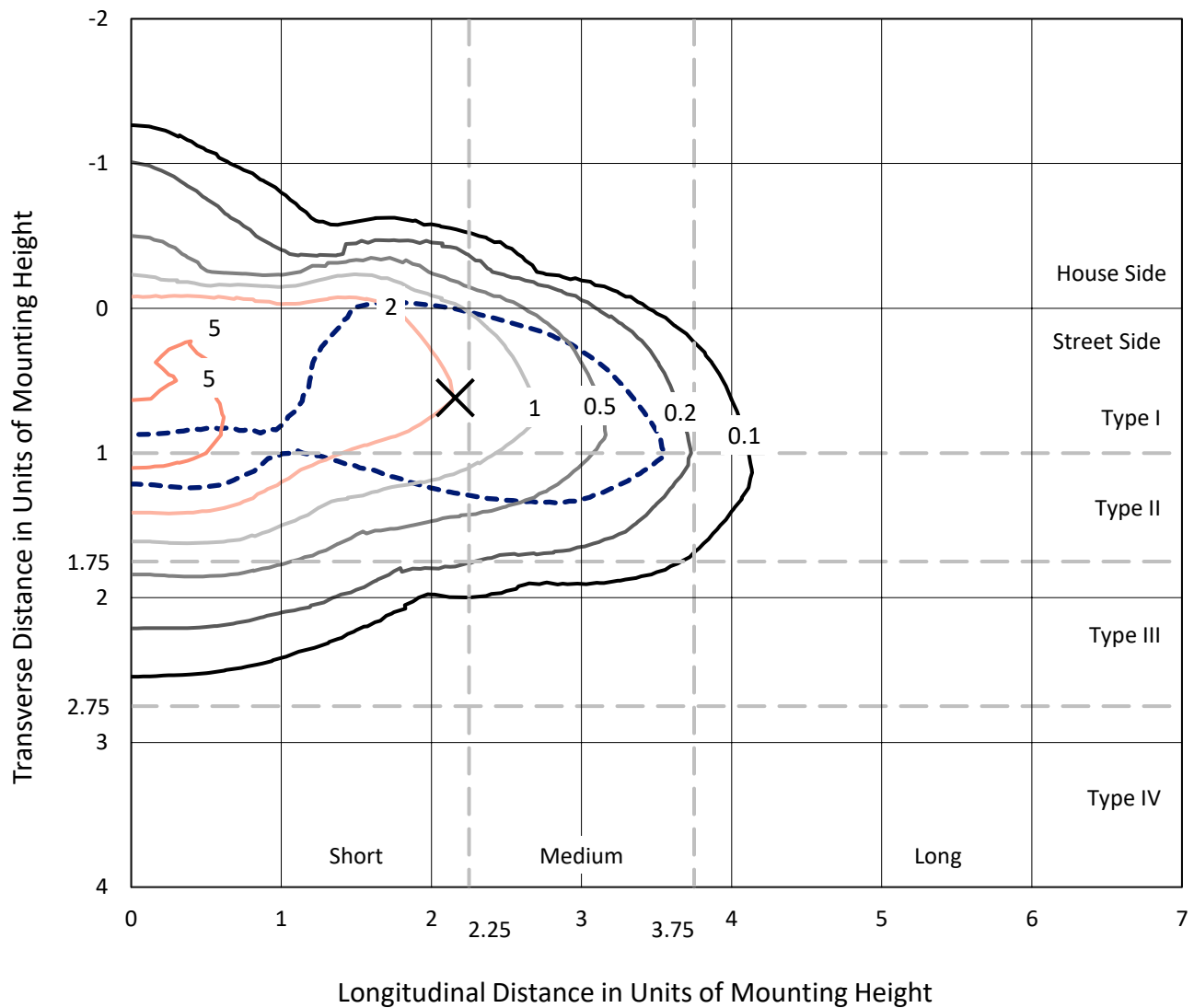


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Iso-Footcandle Lines of Horizontal Illumination

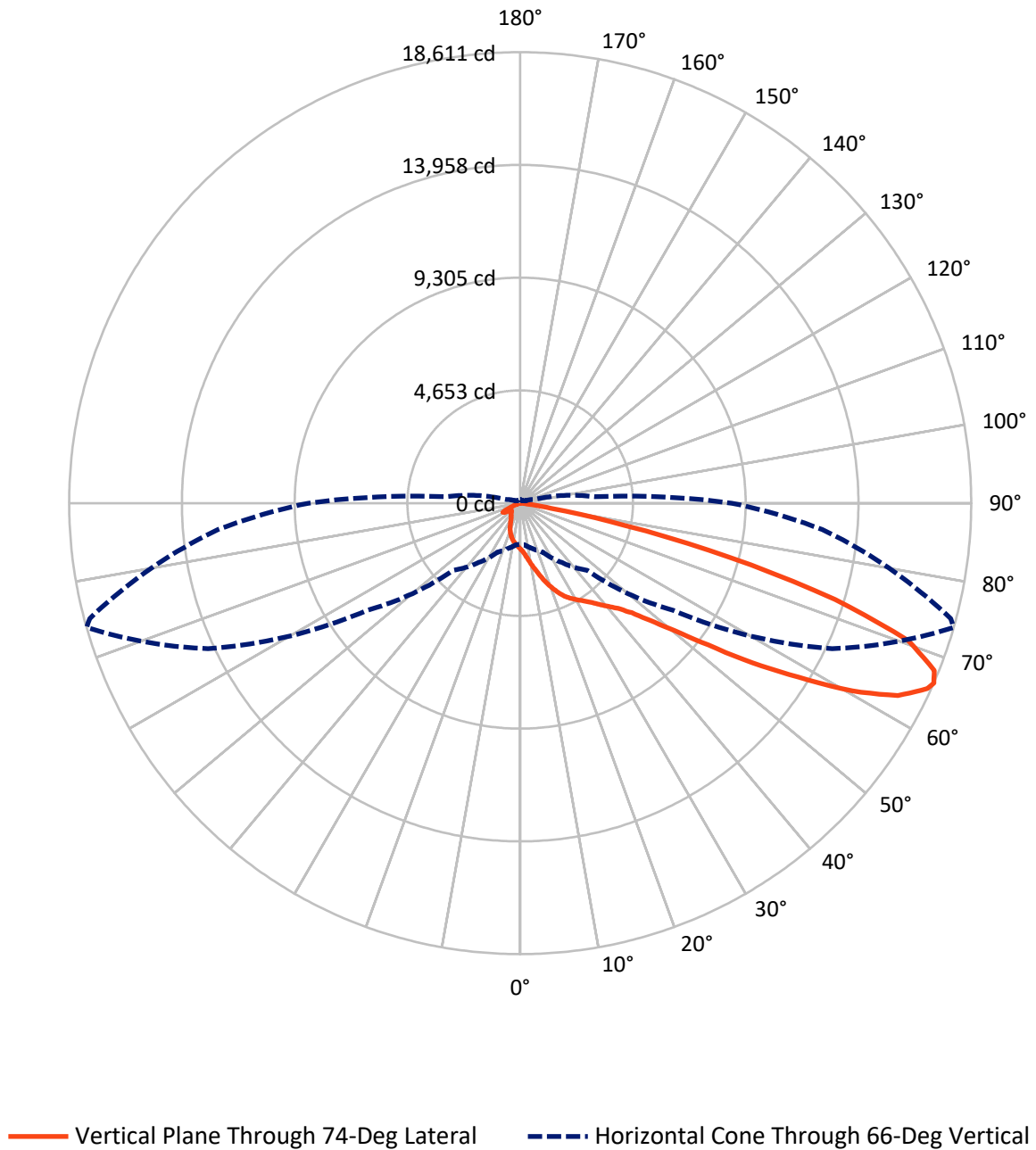
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1700.5	0.0	1700.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15645.6	0.0	15645.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	17346.0	0.0	17346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	1.1
10°-20°	592.5	3.4
20°-30°	1130.7	6.5
30°-40°	1981.9	11.4
40°-50°	3398.4	19.6
50°-60°	4419.9	25.5
60°-70°	4001.1	23.1
70°-80°	1543.8	8.9
80°-90°	92.9	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°	17346.0	100.0
0°-180°	17346.0	100.0

Coefficient of Utilization



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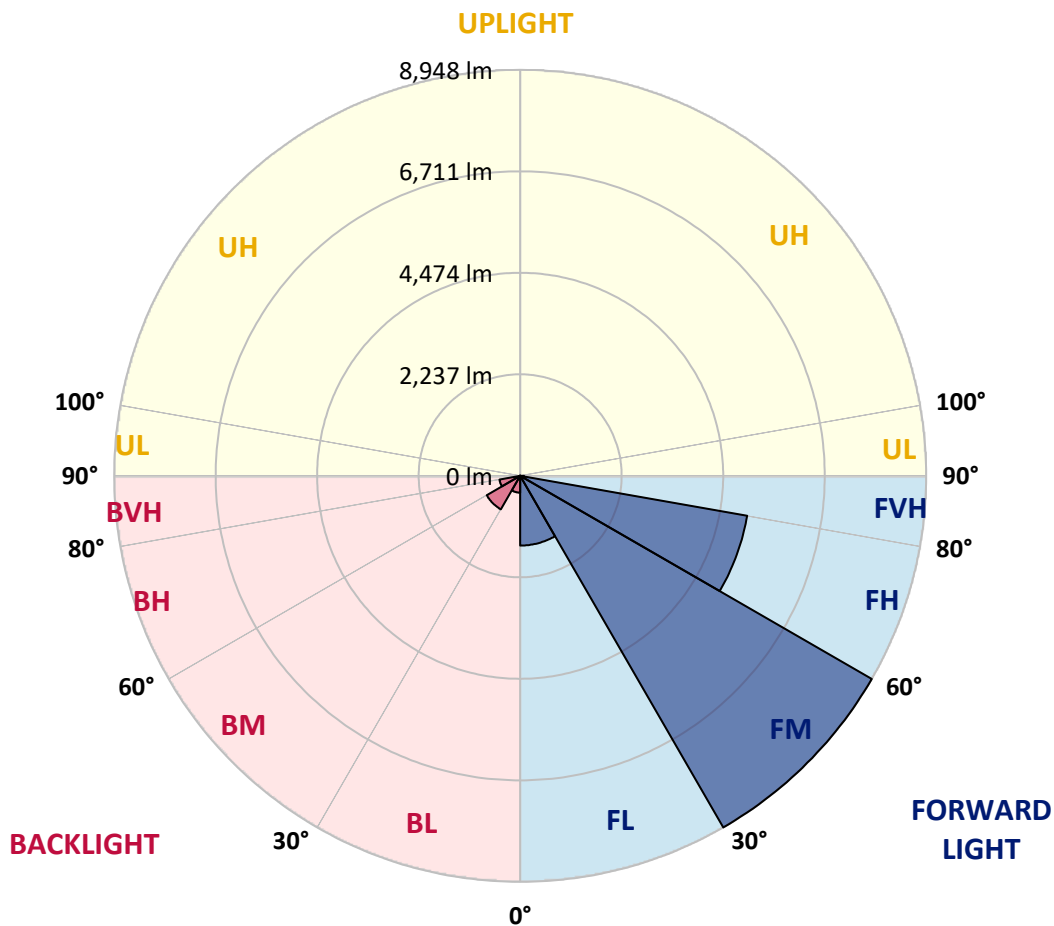
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1537.1	8.9			
FM	(30°-60°)	8947.9	51.6			
FH	(60°-80°)	5080.0	29.3			G3/7500
FVH	(80°-90°)	80.5	0.5			G1/100
BL	(0°-30°)	370.9	2.1	B1/500		
BM	(30°-60°)	852.2	4.9	B1/1000		
BH	(60°-80°)	464.9	2.7	B1/500		G1/500
BVH	(80°-90°)	12.5	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5
2.5°	2273.4	2254.7	2220.5	2217.3	2189.3	2155.1	2095.9	2033.6	1990.0	1983.8	1930.8
5°	2721.9	2712.5	2678.3	2656.5	2603.5	2522.5	2385.5	2248.5	2133.3	2120.8	2002.5
7.5°	2840.2	2846.4	2852.7	2874.5	2855.8	2818.4	2715.6	2522.5	2341.9	2313.9	2108.3
10°	2858.9	2852.7	2852.7	2880.7	2933.6	2986.6	2974.1	2809.1	2575.5	2541.2	2254.7
12.5°	3061.3	3070.7	3048.9	3036.4	3027.1	3055.1	3148.5	3076.9	2821.5	2793.5	2432.2
15°	3322.9	3319.8	3288.7	3288.7	3260.6	3213.9	3273.1	3326.0	3117.4	3083.1	2634.7
17.5°	3512.9	3525.3	3522.2	3540.9	3531.6	3469.3	3438.1	3547.1	3422.6	3379.0	2865.1
20°	3665.5	3699.7	3712.2	3771.4	3799.4	3755.8	3674.8	3743.3	3715.3	3674.8	3098.7
22.5°	3827.4	3855.4	3877.2	3980.0	4057.9	4048.5	3945.8	3930.2	3998.7	3961.3	3329.1
25°	3989.4	4001.8	4067.2	4191.8	4316.4	4347.5	4241.6	4120.2	4254.1	4219.8	3534.7
27.5°	4166.9	4173.1	4251.0	4403.6	4578.0	4643.4	4559.3	4335.0	4450.3	4450.3	3721.5
30°	4490.8	4553.0	4584.2	4721.2	4873.8	4964.1	4864.5	4562.4	4624.7	4652.7	3917.7
32.5°	5188.3	5197.7	5188.3	5247.5	5278.7	5331.6	5216.4	4817.7	4802.2	4833.3	4110.8
35°	6253.4	6216.0	6116.4	6029.2	5848.6	5748.9	5599.4	5144.7	5020.2	5063.8	4300.8
37.5°	7545.8	7492.9	7265.6	6997.7	6611.6	6212.9	6026.1	5543.4	5297.3	5353.4	4506.3
40°	8779.1	8744.8	8473.9	8143.8	7483.6	6801.5	6406.0	5879.7	5605.7	5627.5	4715.0
42.5°	9794.3	9788.1	9560.8	9215.1	8368.0	7436.8	6854.5	6209.8	5929.5	5963.8	4933.0
45°	10563.5	10504.4	10336.2	10087.1	9224.4	8097.1	7396.4	6711.2	6449.6	6490.1	5260.0
47.5°	10563.5	10572.9	10681.9	10657.0	9822.4	8716.8	7988.1	7343.4	7218.8	7256.2	5798.7
50°	9704.0	9791.2	10277.0	10685.0	10133.8	9199.5	8626.5	8134.4	8262.1	8318.2	6739.2
52.5°	8003.6	8150.0	8994.0	9925.1	9903.3	9442.4	9286.7	9140.3	9713.4	9813.0	8128.2
55°	6082.1	6178.7	7278.0	8501.9	8900.5	9243.1	9862.8	10417.2	11634.8	11613.0	9539.0
57.5°	4543.7	4634.0	5580.7	6938.6	7464.9	8380.5	10158.7	11877.8	13540.8	13624.9	10862.5
60°	3341.6	3410.1	4216.7	5331.6	6091.5	7060.0	10040.4	13316.5	15736.3	15639.8	12030.4
62.5°	2472.7	2510.1	3092.5	3818.1	4827.1	5752.0	9296.0	14300.6	17489.6	17293.4	12681.2
65°	1912.2	1924.6	2226.7	2612.9	3509.8	4472.1	8187.4	14450.1	18458.2	18249.5	12668.8
66°	1703.5	1712.8	1934.0	2232.9	2986.6	3914.6	7701.5	14210.3	18610.8	18389.7	12513.1
67.5°	1429.4	1423.2	1554.0	1750.2	2242.3	3020.8	6838.9	13509.6	18430.1	18318.0	12014.8
70°	1058.8	1062.0	1127.4	1174.1	1311.1	1672.4	4939.2	11718.9	16985.1	16978.9	10647.6
72.5°	784.8	794.1	844.0	853.3	819.0	906.2	2846.4	9321.0	13587.5	13590.6	7960.0
75°	588.6	604.2	619.7	626.0	594.8	573.0	1286.2	6272.1	8937.9	8872.5	4506.3
77.5°	448.5	454.7	467.1	457.8	451.6	395.5	535.7	3058.2	4412.9	4020.5	1460.6
80°	327.0	327.0	339.5	327.0	323.9	283.4	292.7	981.0	1295.5	1077.5	314.5
82.5°	205.5	202.4	211.8	208.7	202.4	180.6	171.3	274.1	299.0	267.8	152.6
85°	115.2	112.1	109.0	105.9	96.5	81.0	93.4	102.8	137.0	140.1	109.0
87.5°	40.5	40.5	37.4	34.3	28.0	28.0	34.3	34.3	49.8	49.8	56.1
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°	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5	1893.5
2.5°	1905.9	1871.7	1821.8	1756.4	1709.7	1663.0	1613.2	1585.2	1544.7	1535.3	1547.8
5°	1940.2	1877.9	1753.3	1616.3	1498.0	1392.1	1292.4	1233.2	1174.1	1152.3	1161.6
7.5°	2011.8	1905.9	1694.2	1473.0	1276.8	1118.0	999.7	931.2	878.2	856.4	862.6
10°	2117.7	1955.8	1638.1	1311.1	1058.8	890.7	791.0	747.4	716.3	703.8	706.9
12.5°	2245.4	2027.4	1566.5	1149.2	872.0	725.6	678.9	669.6	663.3	657.1	660.2
15°	2388.6	2089.7	1482.4	990.3	725.6	644.7	629.1	626.0	622.9	622.9	622.9
17.5°	2538.1	2145.7	1389.0	840.8	632.2	594.8	585.5	585.5	585.5	588.6	588.6
20°	2678.3	2189.3	1280.0	706.9	579.3	548.1	541.9	541.9	545.0	548.1	548.1
22.5°	2815.3	2208.0	1152.3	613.5	535.7	507.6	498.3	498.3	498.3	501.4	501.4
25°	2933.6	2208.0	1024.6	554.3	498.3	470.3	457.8	454.7	457.8	457.8	457.8
27.5°	3033.3	2198.7	900.0	513.9	460.9	432.9	420.4	417.3	423.5	426.7	426.7
30°	3139.2	2186.2	800.4	476.5	429.8	401.7	389.3	389.3	398.6	411.1	411.1
32.5°	3241.9	2195.5	722.5	445.3	398.6	376.8	364.4	367.5	386.2	404.9	404.9
35°	3350.9	2214.2	675.8	423.5	376.8	355.0	345.7	355.0	373.7	392.4	392.4
37.5°	3459.9	2236.0	647.8	404.9	358.1	336.3	330.1	342.6	364.4	383.1	386.2
40°	3575.2	2254.7	616.6	386.2	345.7	320.8	317.7	330.1	358.1	376.8	379.9
42.5°	3718.4	2292.1	579.3	370.6	333.2	302.1	305.2	314.5	342.6	370.6	373.7
45°	3998.7	2410.4	541.9	355.0	317.7	292.7	286.5	292.7	323.9	355.0	361.3
47.5°	4525.0	2678.3	501.4	339.5	302.1	286.5	261.6	267.8	295.9	330.1	333.2
50°	5534.0	3248.2	479.6	323.9	289.6	264.7	236.7	236.7	258.5	289.6	289.6
52.5°	7106.7	4269.6	492.1	311.4	274.1	242.9	214.9	211.8	224.2	246.0	246.0
55°	8804.0	5390.8	538.8	299.0	255.4	230.5	199.3	183.7	193.1	205.5	205.5
57.5°	10149.4	5954.5	666.5	292.7	233.6	221.1	180.6	158.8	168.2	180.6	180.6
60°	10741.1	5624.3	809.7	299.0	218.0	205.5	161.9	140.1	155.7	168.2	171.3
62.5°	10261.5	4630.9	868.9	283.4	196.2	183.7	158.8	130.8	149.5	158.8	161.9
65°	9224.4	3519.1	678.9	246.0	180.6	158.8	143.3	124.6	140.1	149.5	149.5
66°	8732.4	3067.5	579.3	227.3	174.4	149.5	137.0	124.6	137.0	143.3	146.4
67.5°	7969.4	2419.8	429.8	199.3	161.9	137.0	127.7	118.3	130.8	137.0	137.0
70°	6231.6	1441.9	258.5	155.7	140.1	121.5	115.2	109.0	118.3	121.5	121.5
72.5°	3902.2	685.1	165.1	115.2	118.3	115.2	96.5	102.8	105.9	109.0	109.0
75°	1890.4	270.9	112.1	84.1	96.5	109.0	77.9	90.3	93.4	99.7	96.5
77.5°	526.3	130.8	71.6	62.3	84.1	84.1	59.2	71.6	84.1	105.9	96.5
80°	152.6	84.1	46.7	46.7	59.2	59.2	40.5	49.8	56.1	62.3	65.4
82.5°	105.9	56.1	31.1	34.3	34.3	37.4	24.9	24.9	31.1	31.1	34.3
85°	84.1	24.9	18.7	21.8	15.6	18.7	12.5	12.5	15.6	12.5	12.5
87.5°	34.3	12.5	12.5	12.5	9.3	9.3	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)