

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: P1211272

Luminaire Tested: **ARCH4-220-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211272
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: ARCH4-220-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 870mA 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: 24467 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 221.8
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



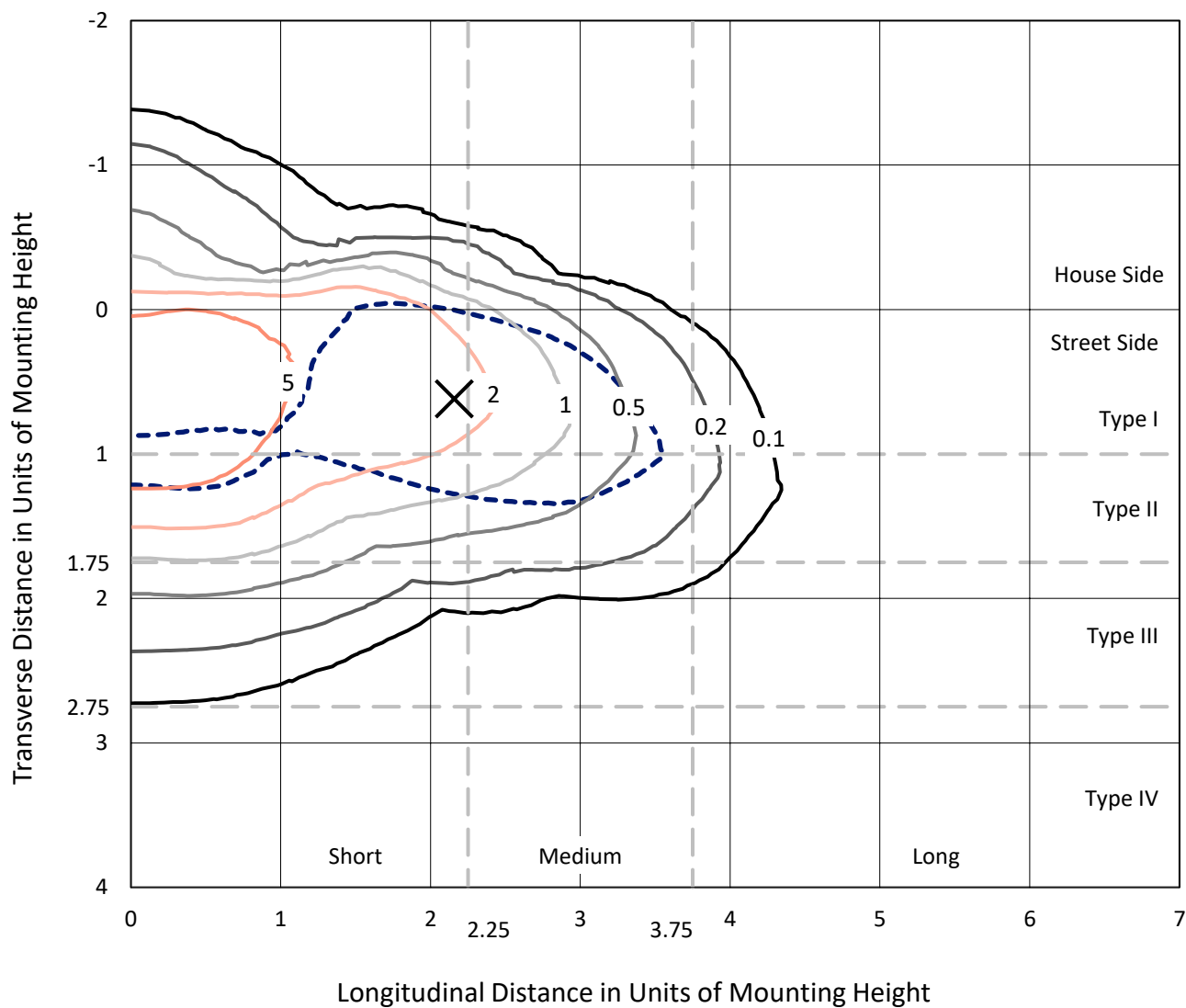
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Iso-Footcandle Lines of Horizontal Illumination

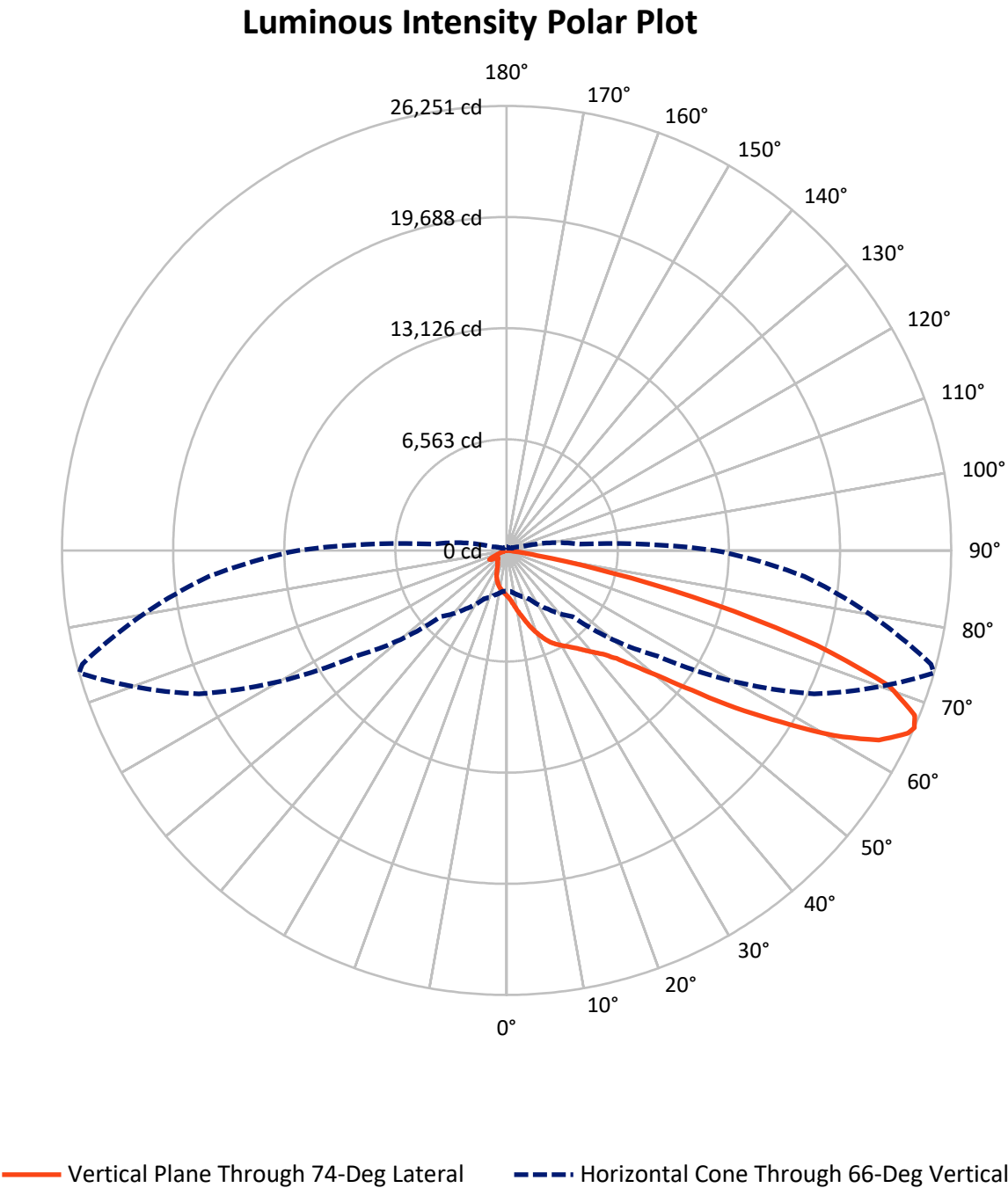
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2398.5	0.0	2398.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22068.5	0.0	22068.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	24467.0	0.0	24467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	1.1
10°-20°	835.7	3.4
20°-30°	1594.9	6.5
30°-40°	2795.5	11.4
40°-50°	4793.5	19.6
50°-60°	6234.4	25.5
60°-70°	5643.6	23.1
70°-80°	2177.6	8.9
80°-90°	131.0	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°	24467.0	100.0
0°-180°	24467.0	100.0

Coefficient of Utilization



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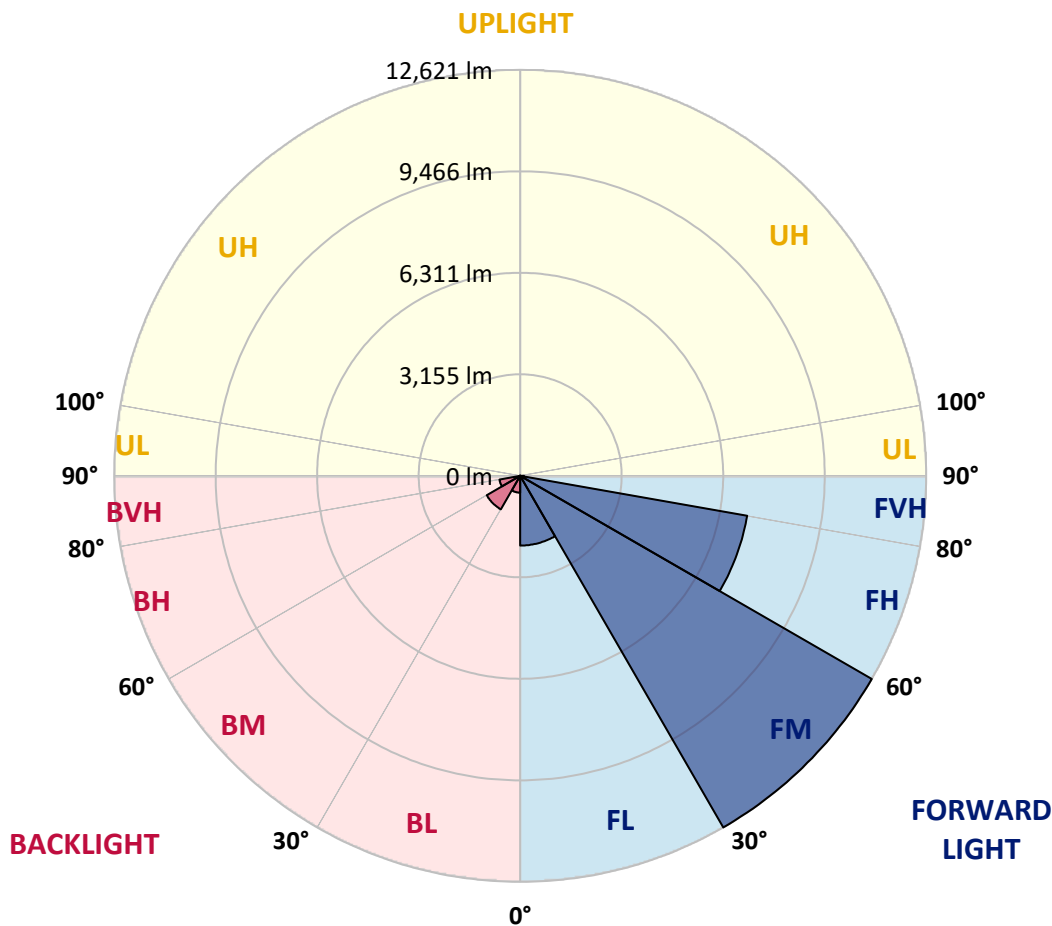
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2168.1	8.9			
FM	(30°-60°)	12621.3	51.6			
FH	(60°-80°)	7165.5	29.3			G3/7500
FVH	(80°-90°)	113.5	0.5			G2/225
BL	(0°-30°)	523.2	2.1	B2/1000		
BM	(30°-60°)	1202.1	4.9	B2/2500		
BH	(60°-80°)	655.7	2.7	B2/1000		G2/1000
BVH	(80°-90°)	17.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	3206.7	3180.3	3132.0	3127.6	3088.1	3039.8	2956.3	2868.5	2807.0	2798.2	2723.5
5°	3839.3	3826.1	3777.8	3747.0	3672.3	3558.1	3364.8	3171.6	3009.0	2991.5	2824.5
7.5°	4006.2	4015.0	4023.7	4054.5	4028.1	3975.4	3830.5	3558.1	3303.3	3263.8	2973.9
10°	4032.5	4023.7	4023.7	4063.3	4138.0	4212.6	4195.1	3962.2	3632.8	3584.5	3180.3
12.5°	4318.1	4331.2	4300.5	4282.9	4269.7	4309.3	4441.1	4340.0	3979.8	3940.3	3430.7
15°	4687.1	4682.7	4638.7	4638.7	4599.2	4533.3	4616.8	4691.4	4397.1	4348.8	3716.3
17.5°	4955.0	4972.6	4968.2	4994.5	4981.4	4893.5	4849.6	5003.3	4827.6	4766.1	4041.3
20°	5170.3	5218.6	5236.1	5319.6	5359.1	5297.6	5183.4	5280.1	5240.5	5183.4	4370.8
22.5°	5398.7	5438.2	5469.0	5613.9	5723.7	5710.6	5565.6	5543.6	5640.3	5587.6	4695.8
25°	5627.1	5644.7	5736.9	5912.6	6088.3	6132.3	5982.9	5811.6	6000.5	5952.2	4985.8
27.5°	5877.5	5886.3	5996.1	6211.3	6457.3	6549.6	6431.0	6114.7	6277.2	6277.2	5249.3
30°	6334.3	6422.2	6466.1	6659.4	6874.6	7002.0	6861.5	6435.4	6523.2	6562.8	5526.1
32.5°	7318.3	7331.5	7318.3	7401.8	7445.7	7520.4	7357.8	6795.6	6773.6	6817.5	5798.4
35°	8820.6	8767.9	8627.3	8504.3	8249.6	8109.0	7898.1	7256.8	7081.1	7142.6	6066.4
37.5°	10643.6	10568.9	10248.3	9870.5	9325.8	8763.5	8499.9	7819.1	7472.0	7551.1	6356.3
40°	12383.1	12334.8	11952.6	11487.0	10555.7	9593.7	9035.9	8293.5	7906.9	7937.7	6650.6
42.5°	13815.2	13806.4	13485.7	12998.1	11803.3	10489.9	9668.4	8759.1	8363.8	8412.1	6958.1
45°	14900.2	14816.7	14579.5	14228.1	13011.3	11421.1	10432.8	9466.3	9097.4	9154.5	7419.3
47.5°	14900.2	14913.3	15067.1	15031.9	13854.7	12295.3	11267.4	10358.1	10182.4	10235.1	8179.3
50°	13687.8	13810.8	14496.0	15071.5	14294.0	12976.1	12167.9	11473.8	11653.9	11733.0	9505.9
52.5°	11289.3	11495.8	12686.2	13999.7	13968.9	13318.8	13099.1	12892.7	13700.9	13841.5	11465.0
55°	8579.0	8715.2	10265.8	11992.2	12554.4	13037.6	13911.8	14693.7	16411.3	16380.5	13455.0
57.5°	6409.0	6536.4	7871.8	9787.0	10529.4	11820.9	14329.1	16753.9	19099.6	19218.2	15321.9
60°	4713.4	4810.0	5947.8	7520.4	8592.2	9958.3	14162.2	18783.3	22196.5	22060.3	16969.1
62.5°	3487.8	3540.5	4362.0	5385.5	6808.7	8113.4	13112.3	20171.5	24669.6	24392.9	17887.2
65°	2697.1	2714.7	3140.8	3685.5	4950.6	6308.0	11548.5	20382.3	26035.8	25741.4	17869.7
66°	2402.8	2416.0	2727.9	3149.6	4212.6	5521.7	10863.2	20044.1	26251.0	25939.1	17650.0
67.5°	2016.3	2007.5	2192.0	2468.7	3162.8	4261.0	9646.5	19055.7	25996.2	25838.1	16947.2
70°	1493.5	1497.9	1590.2	1656.1	1849.3	2358.9	6966.9	16529.9	23958.0	23949.2	15018.8
72.5°	1107.0	1120.1	1190.4	1203.6	1155.3	1278.3	4015.0	13147.5	19165.5	19169.9	11227.8
75°	830.2	852.2	874.2	882.9	839.0	808.3	1814.2	8847.0	12607.2	12514.9	6356.3
77.5°	632.6	641.3	658.9	645.7	636.9	557.9	755.6	4313.7	6224.5	5671.0	2060.2
80°	461.2	461.2	478.8	461.2	456.8	399.7	412.9	1383.7	1827.4	1519.9	443.7
82.5°	289.9	285.5	298.7	294.3	285.5	254.8	241.6	386.6	421.7	377.8	215.2
85°	162.5	158.1	153.7	149.4	136.2	114.2	131.8	145.0	193.3	197.7	153.7
87.5°	57.1	57.1	52.7	48.3	39.5	39.5	48.3	48.3	70.3	70.3	79.1
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°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	2688.4	2640.0	2569.8	2477.5	2411.6	2345.7	2275.4	2235.9	2178.8	2165.6	2183.2
5°	2736.7	2648.8	2473.1	2279.8	2112.9	1963.6	1823.0	1739.5	1656.1	1625.3	1638.5
7.5°	2837.7	2688.4	2389.6	2077.8	1801.0	1577.0	1410.1	1313.4	1238.8	1208.0	1216.8
10°	2987.1	2758.6	2310.6	1849.3	1493.5	1256.3	1115.8	1054.3	1010.3	992.8	997.2
12.5°	3167.2	2859.7	2209.5	1620.9	1230.0	1023.5	957.6	944.4	935.7	926.9	931.3
15°	3369.2	2947.5	2090.9	1396.9	1023.5	909.3	887.3	882.9	878.5	878.5	878.5
17.5°	3580.1	3026.6	1959.2	1186.0	891.7	839.0	825.8	825.8	825.8	830.2	830.2
20°	3777.8	3088.1	1805.4	997.2	817.0	773.1	764.3	764.3	768.7	773.1	773.1
22.5°	3971.0	3114.5	1625.3	865.4	755.6	716.0	702.8	702.8	702.8	707.2	707.2
25°	4138.0	3114.5	1445.2	781.9	702.8	663.3	645.7	641.3	645.7	645.7	645.7
27.5°	4278.5	3101.3	1269.5	724.8	650.1	610.6	593.0	588.6	597.4	601.8	601.8
30°	4427.9	3083.7	1128.9	672.1	606.2	566.7	549.1	549.1	562.3	579.8	579.8
32.5°	4572.8	3096.9	1019.1	628.2	562.3	531.5	514.0	518.3	544.7	571.1	571.1
35°	4726.6	3123.2	953.2	597.4	531.5	500.8	487.6	500.8	527.1	553.5	553.5
37.5°	4880.3	3154.0	913.7	571.1	505.2	474.4	465.6	483.2	514.0	540.3	544.7
40°	5042.9	3180.3	869.8	544.7	487.6	452.5	448.1	465.6	505.2	531.5	535.9
42.5°	5244.9	3233.1	817.0	522.7	470.0	426.1	430.5	443.7	483.2	522.7	527.1
45°	5640.3	3400.0	764.3	500.8	448.1	412.9	404.1	412.9	456.8	500.8	509.6
47.5°	6382.6	3777.8	707.2	478.8	426.1	404.1	369.0	377.8	417.3	465.6	470.0
50°	7805.9	4581.6	676.5	456.8	408.5	373.4	333.8	333.8	364.6	408.5	408.5
52.5°	10024.2	6022.4	694.1	439.3	386.6	342.6	303.1	298.7	316.3	347.0	347.0
55°	12418.3	7603.8	759.9	421.7	360.2	325.1	281.1	259.2	272.3	289.9	289.9
57.5°	14315.9	8398.9	940.0	412.9	329.5	311.9	254.8	224.0	237.2	254.8	254.8
60°	15150.6	7933.3	1142.1	421.7	307.5	289.9	228.4	197.7	219.6	237.2	241.6
62.5°	14474.1	6532.0	1225.6	399.7	276.7	259.2	224.0	184.5	210.9	224.0	228.4
65°	13011.3	4963.8	957.6	347.0	254.8	224.0	202.1	175.7	197.7	210.9	210.9
66°	12317.2	4326.8	817.0	320.7	246.0	210.9	193.3	175.7	193.3	202.1	206.5
67.5°	11241.0	3413.2	606.2	281.1	228.4	193.3	180.1	166.9	184.5	193.3	193.3
70°	8789.9	2033.8	364.6	219.6	197.7	171.3	162.5	153.7	166.9	171.3	171.3
72.5°	5504.1	966.4	232.8	162.5	166.9	162.5	136.2	145.0	149.4	153.7	153.7
75°	2666.4	382.2	158.1	118.6	136.2	153.7	109.8	127.4	131.8	140.6	136.2
77.5°	742.4	184.5	101.0	87.9	118.6	118.6	83.5	101.0	118.6	149.4	136.2
80°	215.2	118.6	65.9	65.9	83.5	83.5	57.1	70.3	79.1	87.9	92.2
82.5°	149.4	79.1	43.9	48.3	48.3	52.7	35.1	35.1	43.9	43.9	48.3
85°	118.6	35.1	26.4	30.7	22.0	26.4	17.6	17.6	22.0	17.6	17.6
87.5°	48.3	17.6	17.6	17.6	13.2	13.2	8.8	4.4	4.4	4.4	4.4
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)