

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: P1211256

Luminaire Tested: **ARCH4-220-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211256
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: ARCH4-220-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 22486 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

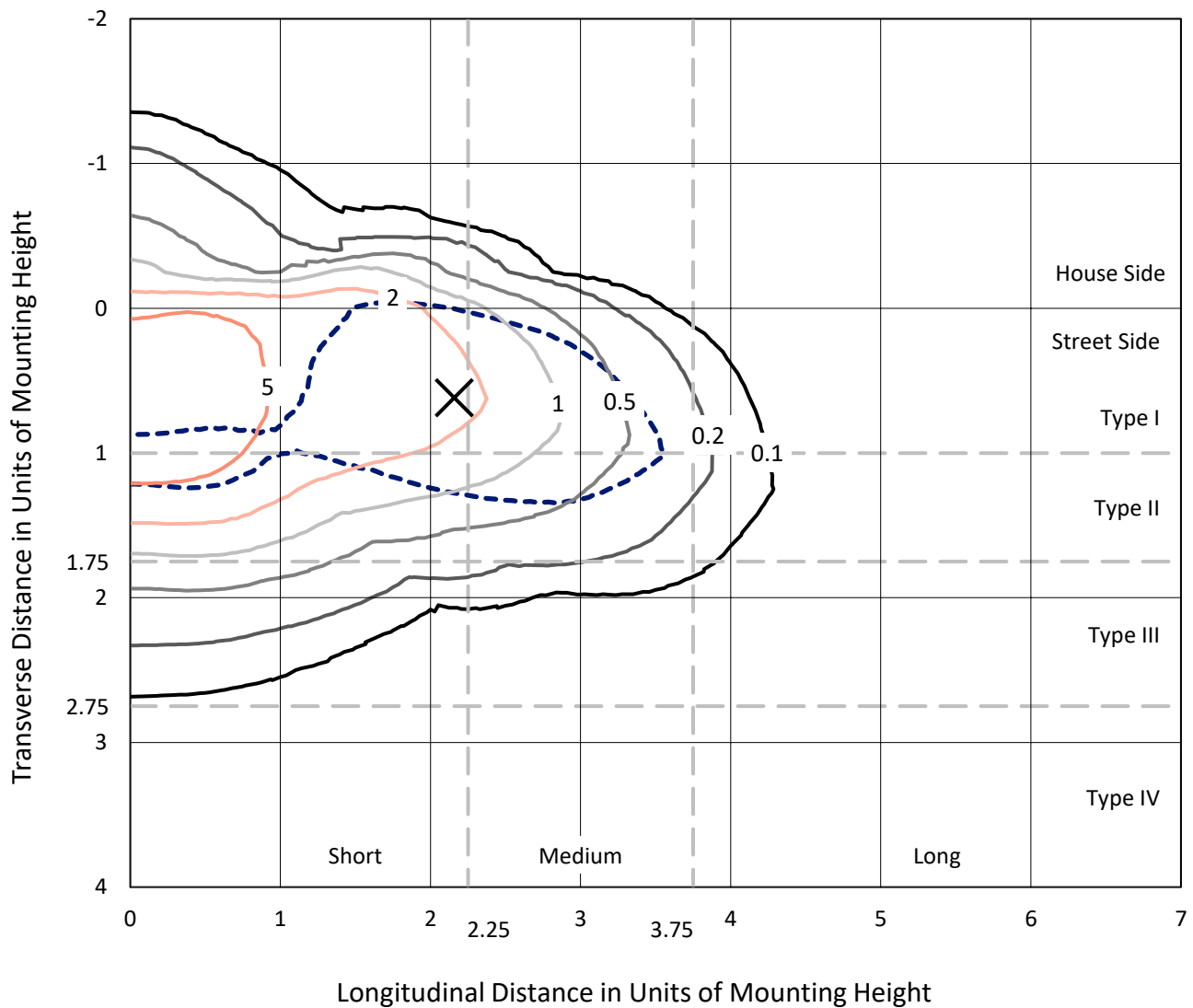
Input Watts (W): 221.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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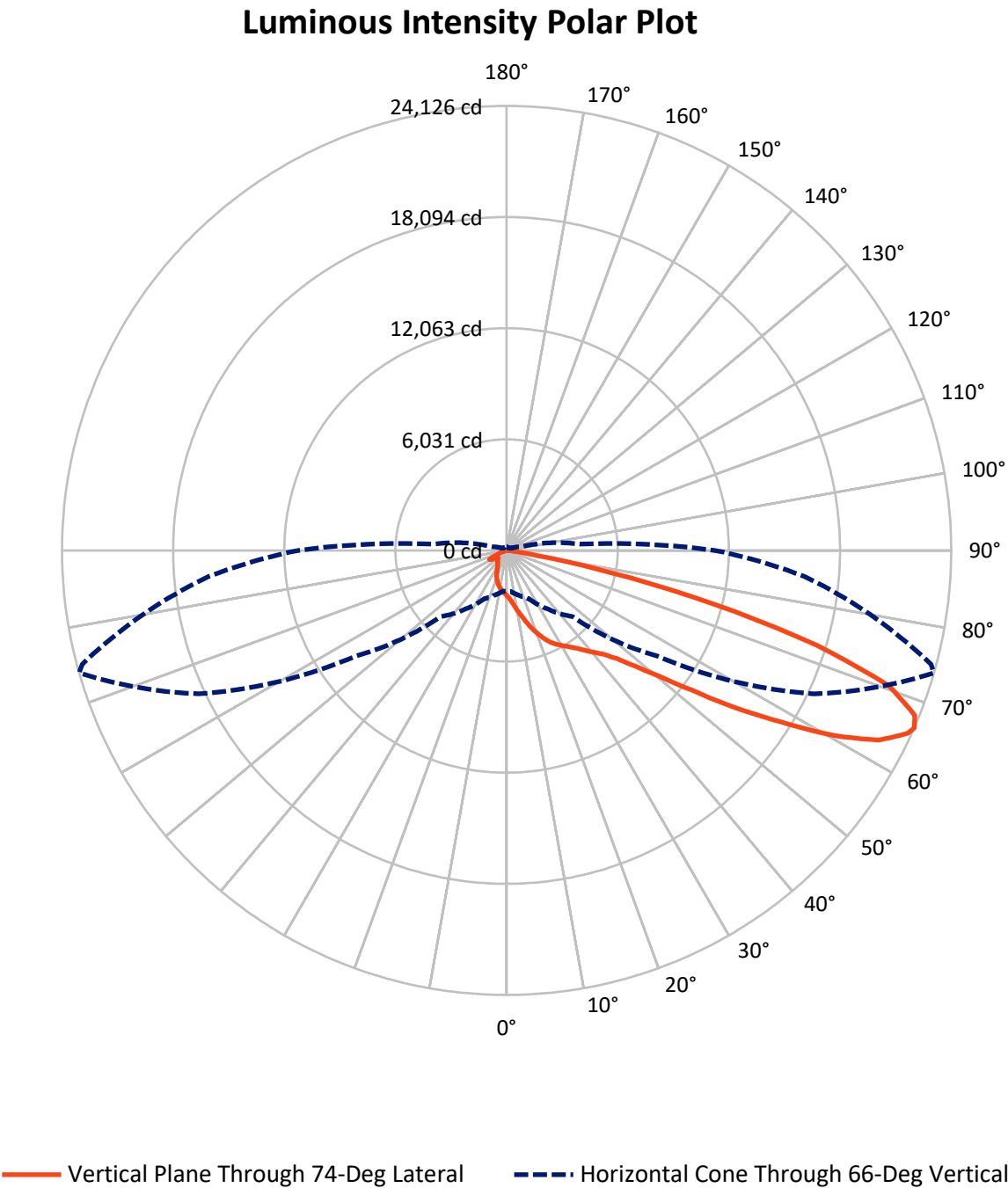
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.3	0.0	2204.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	20281.7	0.0	20281.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	22486.0	0.0	22486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.1
10°-20°	768.0	3.4
20°-30°	1465.8	6.5
30°-40°	2569.1	11.4
40°-50°	4405.4	19.6
50°-60°	5729.6	25.5
60°-70°	5186.7	23.1
70°-80°	2001.3	8.9
80°-90°	120.4	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°	22486.0	100.0
0°-180°	22486.0	100.0

Coefficient of Utilization



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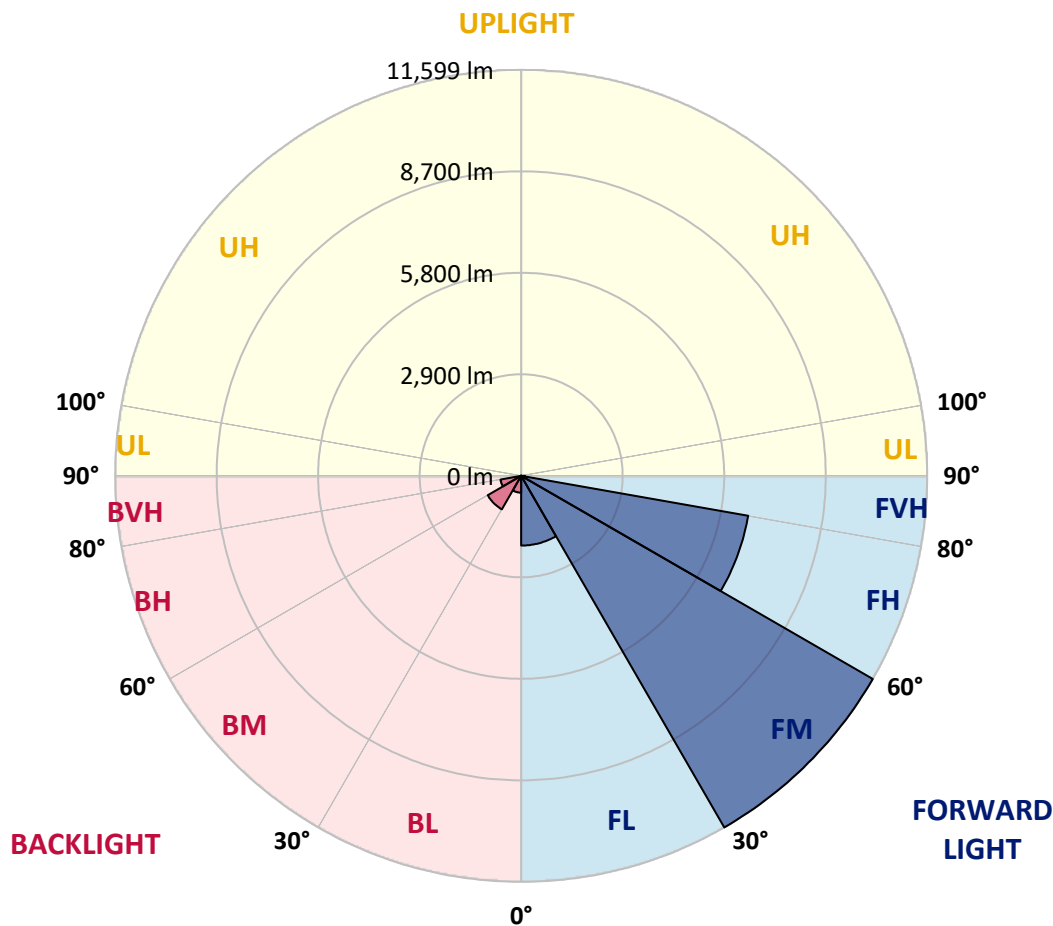
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1992.6	8.9			
FM	(30°-60°)	11599.4	51.6			
FH	(60°-80°)	6585.4	29.3			G3/7500
FVH	(80°-90°)	104.3	0.5			G2/225
BL	(0°-30°)	480.8	2.1	B1/500		
BM	(30°-60°)	1104.7	4.9	B2/2500		
BH	(60°-80°)	602.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	16.1	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°	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5
2.5°	2947.1	2922.8	2878.4	2874.4	2838.1	2793.7	2717.0	2636.2	2579.7	2571.6	2503.0
5°	3528.4	3516.3	3471.9	3443.6	3375.0	3270.0	3092.4	2914.8	2765.4	2749.2	2595.8
7.5°	3681.8	3689.9	3698.0	3726.2	3702.0	3653.6	3520.3	3270.0	3035.9	2999.5	2733.1
10°	3706.0	3698.0	3698.0	3734.3	3802.9	3871.6	3855.4	3641.4	3338.7	3294.3	2922.8
12.5°	3968.4	3980.6	3952.3	3936.1	3924.0	3960.4	4081.5	3988.6	3657.6	3621.3	3153.0
15°	4307.6	4303.5	4263.2	4263.2	4226.8	4166.3	4243.0	4311.6	4041.1	3996.7	3415.4
17.5°	4553.8	4570.0	4565.9	4590.2	4578.0	4497.3	4456.9	4598.2	4436.7	4380.2	3714.1
20°	4751.6	4796.0	4812.2	4888.9	4925.2	4868.7	4763.7	4852.6	4816.2	4763.7	4016.9
22.5°	4961.6	4997.9	5026.2	5159.4	5260.3	5248.2	5115.0	5094.8	5183.6	5135.2	4315.6
25°	5171.5	5187.6	5272.4	5433.9	5595.4	5635.8	5498.5	5341.0	5514.6	5470.2	4582.1
27.5°	5401.6	5409.7	5510.6	5708.4	5934.5	6019.3	5910.3	5619.6	5769.0	5769.0	4824.3
30°	5821.5	5902.2	5942.6	6120.2	6318.0	6435.1	6305.9	5914.3	5995.1	6031.4	5078.6
32.5°	6725.8	6737.9	6725.8	6802.5	6842.8	6911.5	6762.1	6245.4	6225.2	6265.5	5328.9
35°	8106.4	8058.0	7928.8	7815.8	7581.6	7452.4	7258.7	6669.2	6507.8	6564.3	5575.2
37.5°	9781.8	9713.2	9418.5	9071.3	8570.7	8054.0	7811.7	7186.0	6867.1	6939.7	5841.6
40°	11380.5	11336.1	10984.9	10556.9	9701.1	8817.0	8304.3	7622.0	7266.7	7295.0	6112.1
42.5°	12696.6	12688.5	12393.8	11945.7	10847.6	9640.5	8885.6	8049.9	7686.6	7731.0	6394.7
45°	13693.8	13617.1	13399.1	13076.1	11957.8	10496.4	9588.1	8699.9	8360.8	8413.3	6818.6
47.5°	13693.8	13705.9	13847.2	13814.9	12732.9	11299.8	10355.1	9519.4	9357.9	9406.4	7517.0
50°	12579.5	12692.6	13322.3	13851.2	13136.6	11925.5	11182.7	10544.8	10710.4	10783.0	8736.2
52.5°	10375.3	10565.0	11659.1	12866.2	12837.9	12240.4	12038.6	11848.8	12591.6	12720.8	10536.8
55°	7884.4	8009.6	9434.6	11021.2	11538.0	11982.0	12785.4	13504.0	15082.5	15054.3	12365.6
57.5°	5890.1	6007.2	7234.4	8994.6	9676.9	10863.8	13168.9	15397.4	17553.2	17662.2	14081.3
60°	4331.8	4420.6	5466.2	6911.5	7896.5	9152.0	13015.5	17262.5	20399.3	20274.2	15595.2
62.5°	3205.4	3253.9	4008.8	4949.5	6257.5	7456.5	12050.7	18538.2	22672.2	22417.9	16439.0
65°	2478.8	2494.9	2886.5	3387.1	4549.8	5797.2	10613.5	18732.0	23927.7	23657.3	16422.8
66°	2208.3	2220.4	2507.0	2894.6	3871.6	5074.6	9983.7	18421.2	24125.6	23838.9	16221.0
67.5°	1853.0	1844.9	2014.5	2268.8	2906.7	3916.0	8865.4	17512.8	23891.4	23746.1	15575.0
70°	1372.6	1376.6	1461.4	1522.0	1699.6	2167.9	6402.8	15191.5	22018.2	22010.1	13802.8
72.5°	1017.3	1029.5	1094.0	1106.2	1061.8	1174.8	3689.9	12083.0	17613.8	17617.8	10318.8
75°	763.0	783.2	803.4	811.5	771.1	742.8	1667.3	8130.7	11586.4	11501.6	5841.6
77.5°	581.3	589.4	605.6	593.4	585.4	512.7	694.4	3964.4	5720.5	5211.9	1893.4
80°	423.9	423.9	440.0	423.9	419.9	367.4	379.5	1271.7	1679.4	1396.8	407.7
82.5°	266.4	262.4	274.5	270.5	262.4	234.2	222.0	355.3	387.6	347.2	197.8
85°	149.4	145.3	141.3	137.3	125.1	105.0	121.1	133.2	177.6	181.7	141.3
87.5°	52.5	52.5	48.4	44.4	36.3	36.3	44.4	44.4	64.6	64.6	72.7
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°	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5
2.5°	2470.7	2426.3	2361.7	2276.9	2216.4	2155.8	2091.2	2054.9	2002.4	1990.3	2006.4
5°	2515.1	2434.4	2272.9	2095.2	1941.8	1804.6	1675.4	1598.7	1522.0	1493.7	1505.8
7.5°	2608.0	2470.7	2196.2	1909.5	1655.2	1449.3	1295.9	1207.1	1138.5	1110.2	1118.3
10°	2745.2	2535.3	2123.5	1699.6	1372.6	1154.6	1025.4	968.9	928.5	912.4	916.4
12.5°	2910.7	2628.1	2030.6	1489.7	1130.4	940.6	880.1	868.0	859.9	851.8	855.9
15°	3096.4	2708.9	1921.6	1283.8	940.6	835.7	815.5	811.5	807.4	807.4	807.4
17.5°	3290.2	2781.5	1800.5	1090.0	819.5	771.1	759.0	759.0	759.0	763.0	763.0
20°	3471.9	2838.1	1659.2	916.4	750.9	710.5	702.5	702.5	706.5	710.5	710.5
22.5°	3649.5	2862.3	1493.7	795.3	694.4	658.0	645.9	645.9	645.9	650.0	650.0
25°	3802.9	2862.3	1328.2	718.6	645.9	609.6	593.4	589.4	593.4	593.4	593.4
27.5°	3932.1	2850.2	1166.7	666.1	597.5	561.2	545.0	541.0	549.0	553.1	553.1
30°	4069.4	2834.0	1037.5	617.7	557.1	520.8	504.6	504.6	516.7	532.9	532.9
32.5°	4202.6	2846.1	936.6	577.3	516.7	488.5	472.3	476.4	500.6	524.8	524.8
35°	4343.9	2870.4	876.0	549.0	488.5	460.2	448.1	460.2	484.4	508.7	508.7
37.5°	4485.2	2898.6	839.7	524.8	464.3	436.0	427.9	444.1	472.3	496.6	500.6
40°	4634.6	2922.8	799.3	500.6	448.1	415.8	411.8	427.9	464.3	488.5	492.5
42.5°	4820.3	2971.3	750.9	480.4	432.0	391.6	395.6	407.7	444.1	480.4	484.4
45°	5183.6	3124.7	702.5	460.2	411.8	379.5	371.4	379.5	419.9	460.2	468.3
47.5°	5865.9	3471.9	650.0	440.0	391.6	371.4	339.1	347.2	383.5	427.9	432.0
50°	7173.9	4210.7	621.7	419.9	375.4	343.2	306.8	306.8	335.1	375.4	375.4
52.5°	9212.6	5534.8	637.9	403.7	355.3	314.9	278.6	274.5	290.7	318.9	318.9
55°	11412.8	6988.2	698.4	387.6	331.0	298.7	258.4	238.2	250.3	266.4	266.4
57.5°	13156.8	7718.9	863.9	379.5	302.8	286.6	234.2	205.9	218.0	234.2	234.2
60°	13923.9	7291.0	1049.6	387.6	282.6	266.4	209.9	181.7	201.9	218.0	222.0
62.5°	13302.2	6003.1	1126.3	367.4	254.3	238.2	205.9	169.6	193.8	205.9	209.9
65°	11957.8	4561.9	880.1	318.9	234.2	205.9	185.7	161.5	181.7	193.8	193.8
66°	11320.0	3976.5	750.9	294.7	226.1	193.8	177.6	161.5	177.6	185.7	189.7
67.5°	10330.9	3136.8	557.1	258.4	209.9	177.6	165.5	153.4	169.6	177.6	177.6
70°	8078.2	1869.2	335.1	201.9	181.7	157.4	149.4	141.3	153.4	157.4	157.4
72.5°	5058.5	888.2	214.0	149.4	153.4	149.4	125.1	133.2	137.3	141.3	141.3
75°	2450.5	351.2	145.3	109.0	125.1	141.3	100.9	117.1	121.1	129.2	125.1
77.5°	682.3	169.6	92.9	80.7	109.0	109.0	76.7	92.9	109.0	137.3	125.1
80°	197.8	109.0	60.6	60.6	76.7	76.7	52.5	64.6	72.7	80.7	84.8
82.5°	137.3	72.7	40.4	44.4	44.4	48.4	32.3	32.3	40.4	40.4	44.4
85°	109.0	32.3	24.2	28.3	20.2	24.2	16.1	16.1	20.2	16.1	16.1
87.5°	44.4	16.1	16.1	16.1	12.1	12.1	8.1	4.0	4.0	4.0	4.0
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)