

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: P1211464

Luminaire Tested: **ARCH4-280-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211464
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: ARCH4-280-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1085mA 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: 29132 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 279.7
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

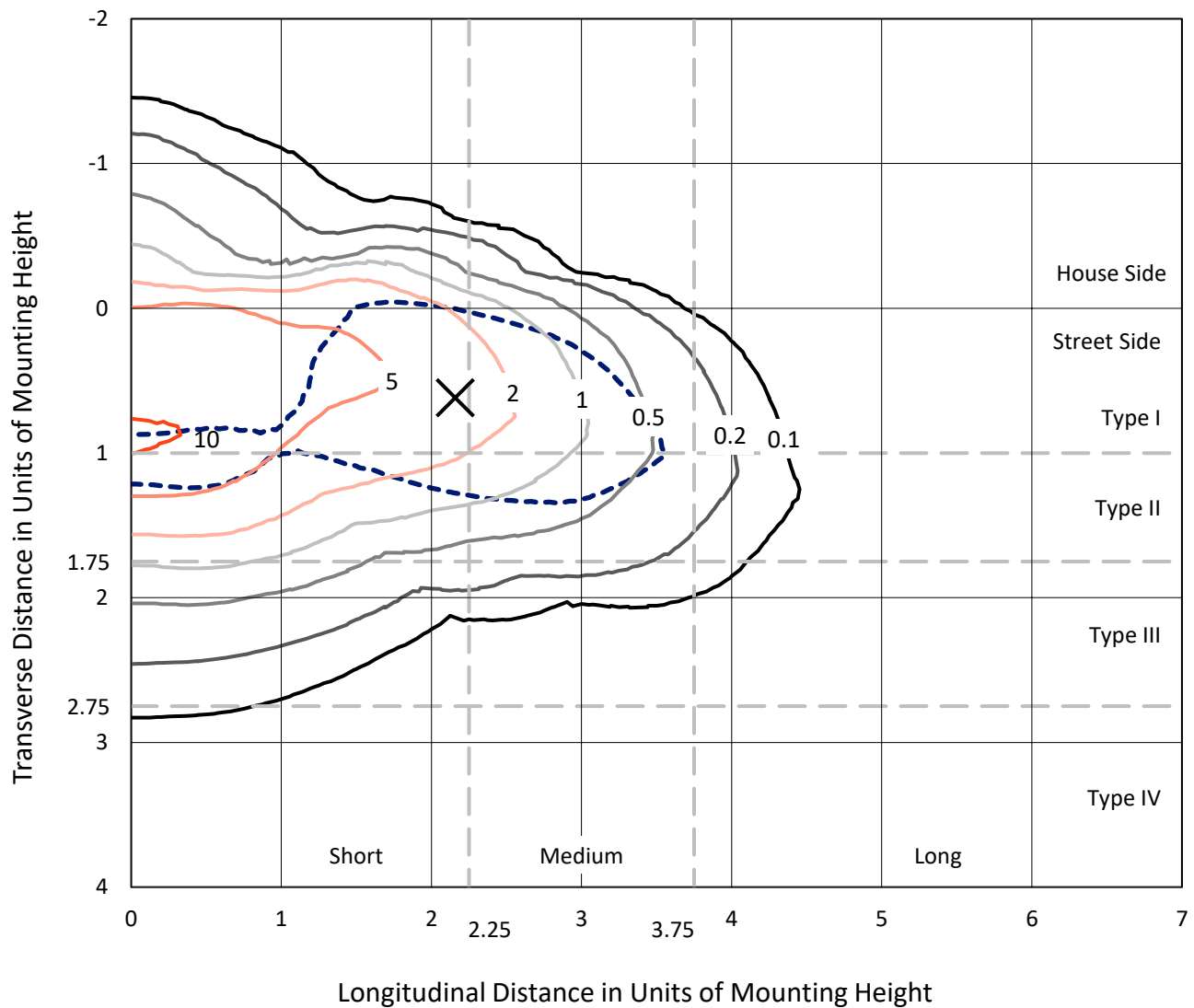


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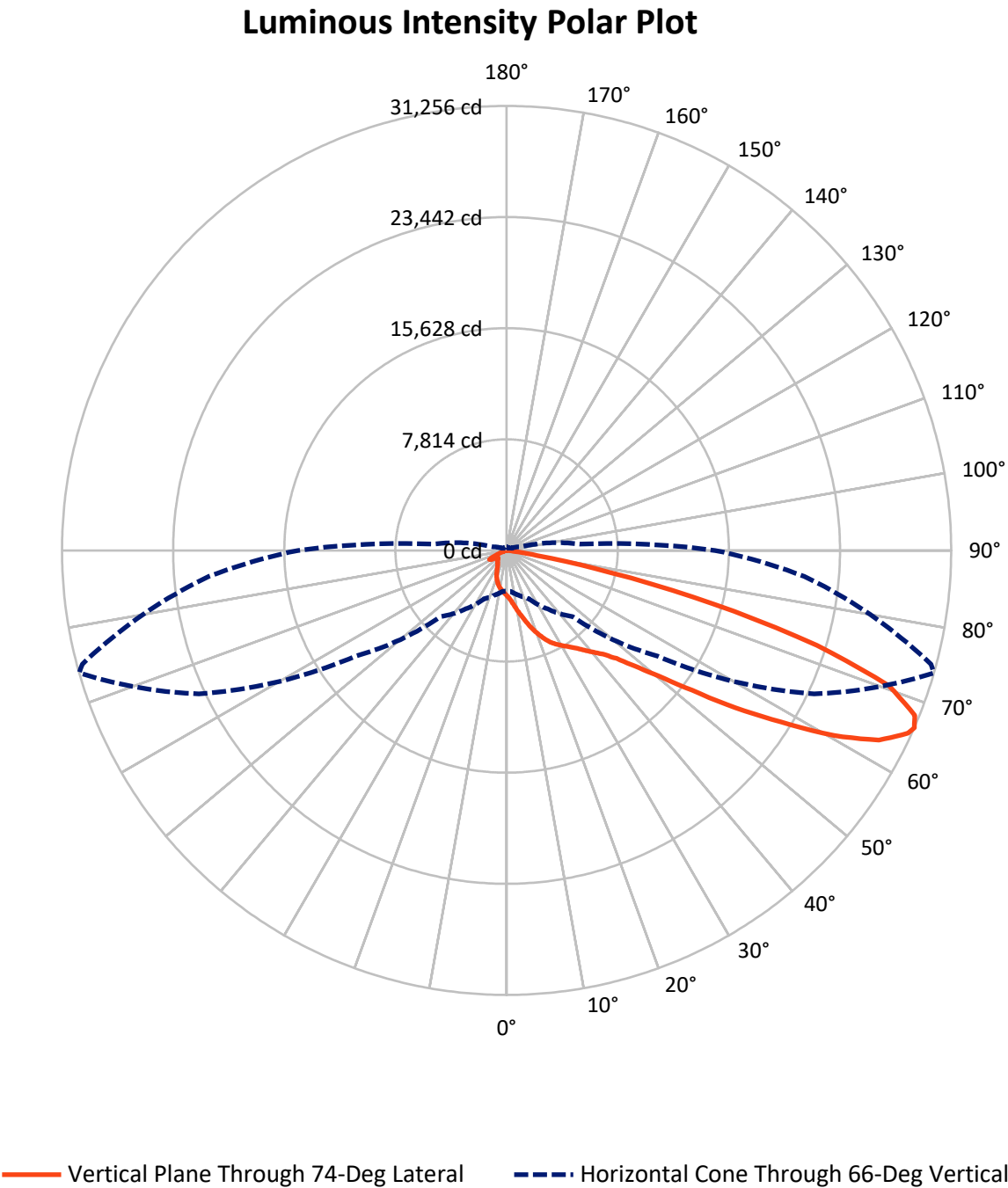
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2855.9	0.0	2855.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	26276.1	0.0	26276.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	29132.0	0.0	29132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	1.1
10°-20°	995.1	3.4
20°-30°	1899.0	6.5
30°-40°	3328.5	11.4
40°-50°	5707.5	19.6
50°-60°	7423.0	25.5
60°-70°	6719.7	23.1
70°-80°	2592.8	8.9
80°-90°	156.0	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°	29132.0	100.0
0°-180°	29132.0	100.0

Coefficient of Utilization



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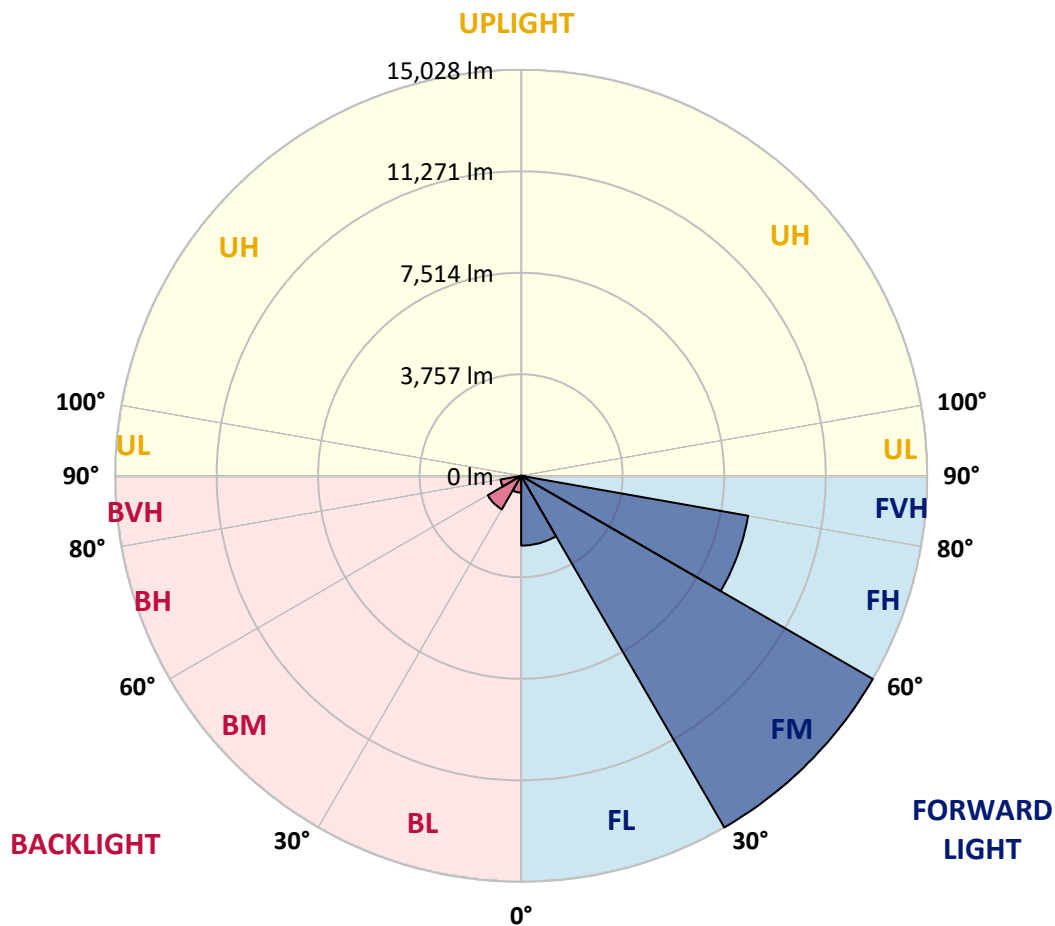
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2581.5	8.9			
FM	(30°-60°)	15027.8	51.6			
FH	(60°-80°)	8531.8	29.3			G4/12000
FVH	(80°-90°)	135.1	0.5			G2/225
BL	(0°-30°)	622.9	2.1	B2/1000		
BM	(30°-60°)	1431.3	4.9	B2/2500		
BH	(60°-80°)	780.7	2.7	B2/1000		G2/1000
BVH	(80°-90°)	20.9	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0
2.5°	3818.1	3786.7	3729.2	3724.0	3676.9	3619.4	3520.0	3415.4	3342.1	3331.7	3242.8
5°	4571.3	4555.6	4498.0	4461.4	4372.5	4236.5	4006.4	3776.3	3582.7	3561.8	3363.1
7.5°	4770.0	4780.5	4790.9	4827.5	4796.2	4733.4	4560.8	4236.5	3933.2	3886.1	3540.9
10°	4801.4	4790.9	4790.9	4838.0	4926.9	5015.8	4994.9	4717.7	4325.4	4267.9	3786.7
12.5°	5141.4	5157.1	5120.4	5099.5	5083.8	5130.9	5287.8	5167.5	4738.6	4691.6	4084.8
15°	5580.7	5575.5	5523.2	5523.2	5476.1	5397.6	5497.0	5585.9	5235.5	5178.0	4424.8
17.5°	5899.8	5920.7	5915.4	5946.8	5931.1	5826.5	5774.2	5957.3	5748.1	5674.9	4811.9
20°	6156.0	6213.6	6234.5	6333.9	6380.9	6307.7	6171.7	6286.8	6239.7	6171.7	5204.1
22.5°	6428.0	6475.1	6511.7	6684.3	6815.1	6799.4	6626.8	6600.6	6715.7	6652.9	5591.2
25°	6700.0	6720.9	6830.7	7040.0	7249.2	7301.5	7123.6	6919.7	7144.6	7087.0	5936.4
27.5°	6998.1	7008.6	7139.3	7395.6	7688.5	7798.3	7657.1	7280.5	7474.1	7474.1	6250.2
30°	7542.1	7646.7	7699.0	7929.1	8185.4	8337.1	8169.7	7662.4	7767.0	7814.0	6579.7
32.5°	8713.6	8729.3	8713.6	8813.0	8865.3	8954.2	8760.7	8091.2	8065.1	8117.4	6904.0
35°	10502.4	10439.6	10272.3	10125.8	9822.5	9655.1	9404.0	8640.4	8431.2	8504.4	7223.0
37.5°	12673.0	12584.1	12202.2	11752.4	11103.9	10434.4	10120.6	9309.9	8896.7	8990.8	7568.2
40°	14744.2	14686.6	14231.6	13677.2	12568.4	11422.9	10758.7	9874.8	9414.5	9451.1	7918.6
42.5°	16449.2	16438.8	16057.0	15476.4	14053.8	12489.9	11511.8	10429.2	9958.5	10016.0	8284.8
45°	17741.1	17641.7	17359.3	16940.9	15492.1	13598.7	12421.9	11271.3	10831.9	10899.9	8833.9
47.5°	17741.1	17756.8	17939.9	17898.0	16496.3	14639.6	13415.7	12333.0	12123.8	12186.6	9738.8
50°	16297.5	16444.0	17259.9	17945.1	17019.3	15450.2	14487.9	13661.5	13875.9	13970.1	11318.3
52.5°	13441.8	13687.6	15105.0	16668.9	16632.3	15858.2	15596.7	15350.9	16313.2	16480.6	13651.0
55°	10214.7	10376.9	12223.2	14278.7	14948.1	15523.5	16564.3	17495.3	19540.3	19503.7	16020.3
57.5°	7631.0	7782.7	9372.7	11653.1	12537.0	14074.7	17061.2	19948.3	22741.3	22882.5	18243.2
60°	5612.1	5727.2	7081.8	8954.2	10230.4	11857.0	16862.4	22364.7	26428.6	26266.5	20204.6
62.5°	4152.8	4215.6	5193.7	6412.3	8106.9	9660.3	15612.4	24017.4	29373.2	29043.7	21297.7
65°	3211.4	3232.3	3739.6	4388.2	5894.5	7510.7	13750.4	24268.5	30999.9	30649.4	21276.8
66°	2861.0	2876.7	3248.0	3750.1	5015.8	6574.5	12934.5	23865.8	31256.1	30884.8	21015.3
67.5°	2400.7	2390.2	2609.9	2939.4	3765.8	5073.4	11485.7	22689.0	30952.8	30764.5	20178.4
70°	1778.3	1783.5	1893.4	1971.8	2201.9	2808.7	8295.2	19681.5	28525.9	28515.5	17882.3
72.5°	1318.0	1333.7	1417.4	1433.1	1375.6	1522.0	4780.5	15654.2	22819.7	22824.9	13368.6
75°	988.5	1014.7	1040.8	1051.3	999.0	962.4	2160.1	10533.8	15010.9	14901.1	7568.2
77.5°	753.2	763.6	784.5	768.9	758.4	664.2	899.6	5136.1	7411.3	6752.3	2453.0
80°	549.2	549.2	570.1	549.2	543.9	476.0	491.6	1647.5	2175.8	1809.7	528.3
82.5°	345.2	340.0	355.7	350.4	340.0	303.4	287.7	460.3	502.1	449.8	256.3
85°	193.5	188.3	183.1	177.8	162.1	136.0	156.9	172.6	230.1	235.4	183.1
87.5°	68.0	68.0	62.8	57.5	47.1	47.1	57.5	57.5	83.7	83.7	94.1
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°	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0
2.5°	3200.9	3143.4	3059.7	2949.9	2871.4	2793.0	2709.3	2662.2	2594.2	2578.5	2599.4
5°	3258.5	3153.9	2944.6	2714.5	2515.8	2337.9	2170.6	2071.2	1971.8	1935.2	1950.9
7.5°	3378.8	3200.9	2845.3	2473.9	2144.4	1877.7	1678.9	1563.9	1474.9	1438.3	1448.8
10°	3556.6	3284.6	2751.1	2201.9	1778.3	1495.9	1328.5	1255.3	1203.0	1182.0	1187.3
12.5°	3771.0	3404.9	2630.8	1930.0	1464.5	1218.7	1140.2	1124.5	1114.0	1103.6	1108.8
15°	4011.6	3509.5	2489.6	1663.2	1218.7	1082.7	1056.5	1051.3	1046.1	1046.1	1046.1
17.5°	4262.7	3603.7	2332.7	1412.2	1061.7	999.0	983.3	983.3	983.3	988.5	988.5
20°	4498.0	3676.9	2149.6	1187.3	972.8	920.5	910.1	910.1	915.3	920.5	920.5
22.5°	4728.2	3708.3	1935.2	1030.4	899.6	852.5	836.8	836.8	836.8	842.1	842.1
25°	4926.9	3708.3	1720.8	931.0	836.8	789.8	768.9	763.6	768.9	768.9	768.9
27.5°	5094.3	3692.6	1511.6	863.0	774.1	727.0	706.1	700.9	711.3	716.5	716.5
30°	5272.1	3671.7	1344.2	800.2	721.8	674.7	653.8	653.8	669.5	690.4	690.4
32.5°	5444.7	3687.3	1213.4	747.9	669.5	632.9	611.9	617.2	648.6	679.9	679.9
35°	5627.8	3718.7	1135.0	711.3	632.9	596.3	580.6	596.3	627.6	659.0	659.0
37.5°	5810.8	3755.3	1087.9	679.9	601.5	564.9	554.4	575.3	611.9	643.3	648.6
40°	6004.4	3786.7	1035.6	648.6	580.6	538.7	533.5	554.4	601.5	632.9	638.1
42.5°	6245.0	3849.5	972.8	622.4	559.6	507.3	512.6	528.3	575.3	622.4	627.6
45°	6715.7	4048.2	910.1	596.3	533.5	491.6	481.2	491.6	543.9	596.3	606.7
47.5°	7599.6	4498.0	842.1	570.1	507.3	481.2	439.3	449.8	496.9	554.4	559.6
50°	9294.2	5455.2	805.5	543.9	486.4	444.6	397.5	397.5	434.1	486.4	486.4
52.5°	11935.5	7170.7	826.4	523.0	460.3	408.0	360.9	355.7	376.6	413.2	413.2
55°	14786.0	9053.6	904.8	502.1	428.9	387.0	334.7	308.6	324.3	345.2	345.2
57.5°	17045.5	10000.3	1119.3	491.6	392.3	371.3	303.4	266.7	282.4	303.4	303.4
60°	18039.2	9445.9	1359.9	502.1	366.1	345.2	272.0	235.4	261.5	282.4	287.7
62.5°	17233.8	7777.4	1459.2	476.0	329.5	308.6	266.7	219.7	251.1	266.7	272.0
65°	15492.1	5910.2	1140.2	413.2	303.4	266.7	240.6	209.2	235.4	251.1	251.1
66°	14665.7	5151.8	972.8	381.8	292.9	251.1	230.1	209.2	230.1	240.6	245.8
67.5°	13384.3	4063.9	721.8	334.7	272.0	230.1	214.4	198.8	219.7	230.1	230.1
70°	10465.8	2421.6	434.1	261.5	235.4	204.0	193.5	183.1	198.8	204.0	204.0
72.5°	6553.5	1150.7	277.2	193.5	198.8	193.5	162.1	172.6	177.8	183.1	183.1
75°	3174.8	455.0	188.3	141.2	162.1	183.1	130.8	151.7	156.9	167.4	162.1
77.5°	883.9	219.7	120.3	104.6	141.2	141.2	99.4	120.3	141.2	177.8	162.1
80°	256.3	141.2	78.5	78.5	99.4	99.4	68.0	83.7	94.1	104.6	109.8
82.5°	177.8	94.1	52.3	57.5	57.5	62.8	41.8	41.8	52.3	52.3	57.5
85°	141.2	41.8	31.4	36.6	26.2	31.4	20.9	20.9	26.2	20.9	20.9
87.5°	57.5	20.9	20.9	20.9	15.7	15.7	10.5	5.2	5.2	5.2	5.2
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)