

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: P1211370

Luminaire Tested: **ARCH4-250-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26534 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.5
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



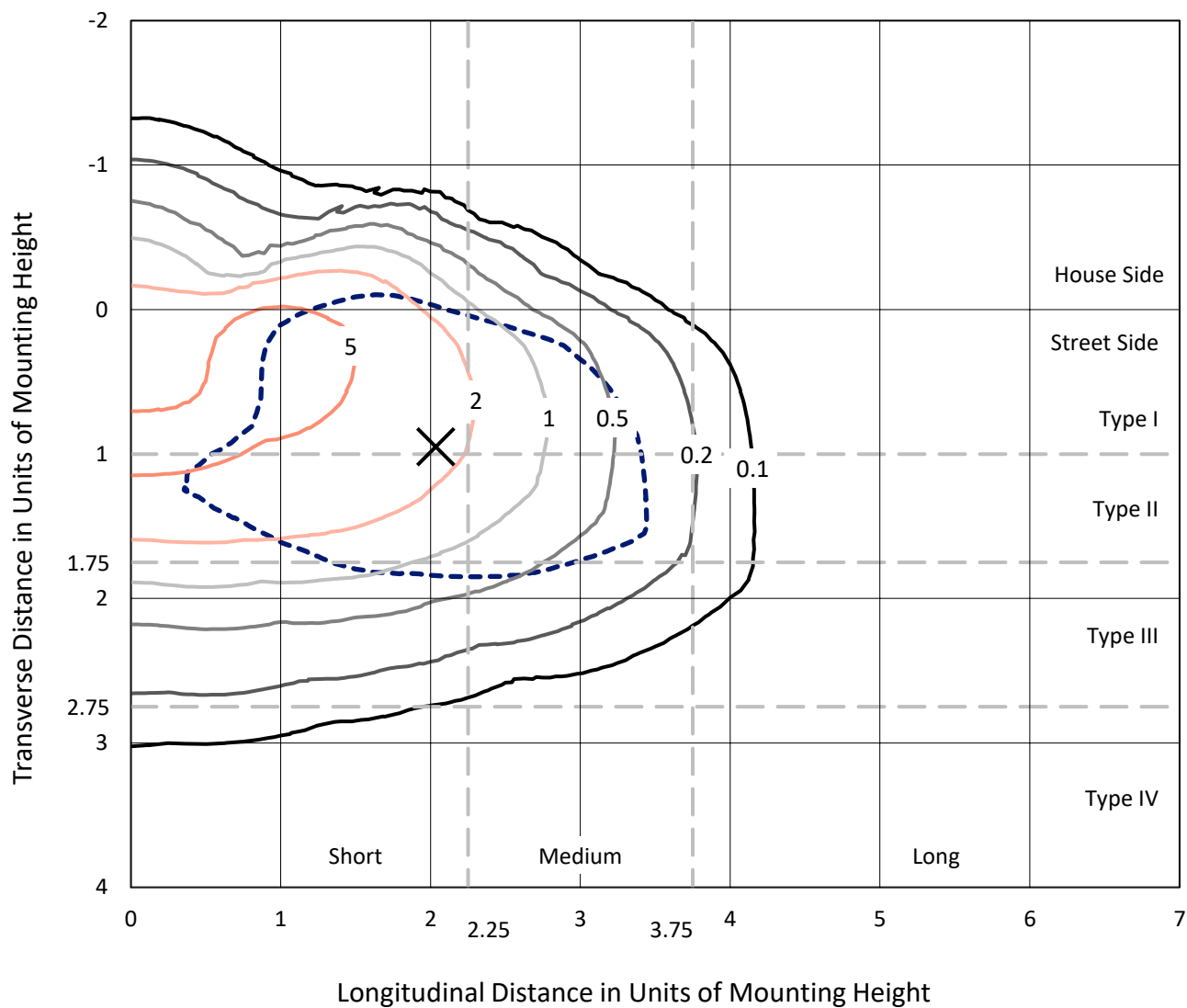
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Iso-Footcandle Lines of Horizontal Illumination

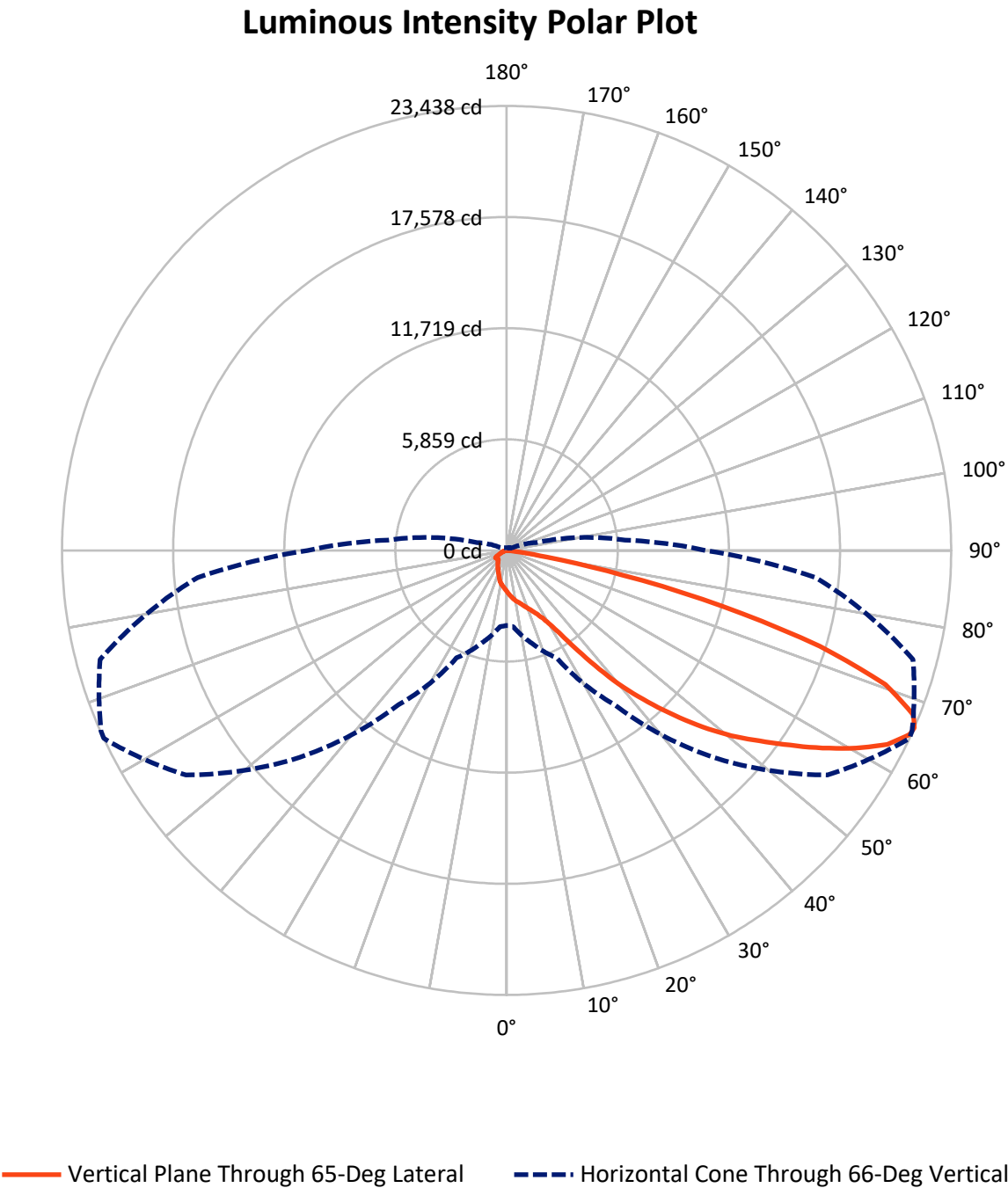
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3131.6	0.0	3131.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	23402.4	0.0	23402.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	26534.0	0.0	26534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	0.8
10°-20°	606.7	2.3
20°-30°	1110.4	4.2
30°-40°	2256.3	8.5
40°-50°	4764.8	18.0
50°-60°	7325.0	27.6
60°-70°	7373.2	27.8
70°-80°	2755.0	10.4
80°-90°	137.6	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°	26534.0	100.0
0°-180°	26534.0	100.0

Coefficient of Utilization



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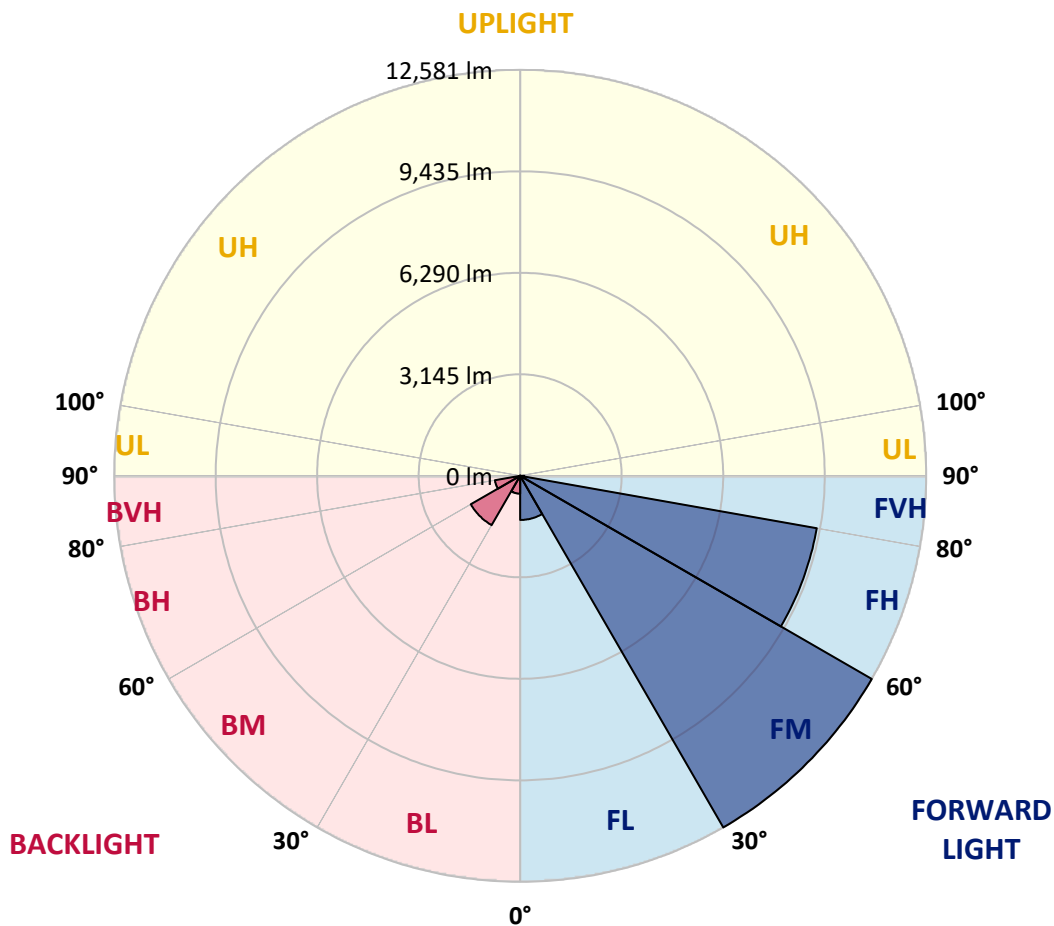
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1367.8	5.2			
FM	(30°-60°)	12580.6	47.4			
FH	(60°-80°)	9332.6	35.2			G4/12000
FVH	(80°-90°)	121.4	0.5			G2/225
BL	(0°-30°)	554.3	2.1	B2/1000		
BM	(30°-60°)	1765.6	6.7	B2/2500		
BH	(60°-80°)	795.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	16.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2465.1	2469.9	2460.3	2441.0	2421.8	2397.7	2359.2	2296.6	2287.0	2243.6	2195.5
5°	2633.6	2643.2	2628.8	2624.0	2614.4	2580.6	2527.7	2436.2	2426.6	2339.9	2229.2
7.5°	2691.4	2705.8	2696.2	2696.2	2696.2	2681.8	2657.7	2575.8	2561.4	2450.7	2282.1
10°	2734.7	2744.3	2739.5	2758.8	2773.2	2763.6	2749.2	2701.0	2686.6	2575.8	2354.4
12.5°	2802.1	2806.9	2811.8	2821.4	2845.5	2855.1	2850.3	2806.9	2797.3	2720.3	2445.8
15°	2864.7	2864.7	2869.5	2912.9	2946.6	2965.8	2970.6	2936.9	2927.3	2864.7	2561.4
17.5°	2922.5	2927.3	2941.7	2989.9	3047.7	3086.2	3110.3	3095.8	3081.4	3033.2	2696.2
20°	3009.2	3018.8	3033.2	3100.6	3158.4	3221.0	3269.1	3264.3	3259.5	3225.8	2855.1
22.5°	3158.4	3168.0	3192.1	3254.7	3312.5	3389.5	3471.4	3466.5	3452.1	3428.0	3042.9
25°	3384.7	3384.7	3399.1	3452.1	3524.3	3615.8	3692.8	3707.3	3692.8	3678.4	3278.8
27.5°	3668.8	3673.6	3673.6	3731.3	3798.8	3914.3	4010.6	4025.0	4025.0	4010.6	3596.5
30°	4063.6	4049.1	4039.5	4087.6	4159.9	4328.4	4496.9	4525.8	4511.3	4535.4	4044.3
32.5°	4742.4	4718.3	4636.5	4646.1	4689.5	4920.6	5204.6	5305.7	5300.9	5344.3	4766.5
35°	5681.3	5633.1	5512.8	5411.7	5406.8	5657.2	6090.5	6470.9	6466.1	6615.3	5864.2
37.5°	6740.5	6803.1	6576.8	6403.5	6350.5	6547.9	7106.4	7929.7	7973.0	8233.0	7303.8
40°	8156.0	8194.5	7905.6	7660.1	7409.7	7482.0	8218.6	9499.3	9576.3	9865.2	8743.4
42.5°	9388.6	9427.1	9258.6	8960.0	8642.3	8507.5	9340.4	10924.4	10987.0	11386.6	10226.3
45°	10226.3	10255.2	10313.0	10341.9	9980.8	9701.5	10712.6	12388.1	12465.1	12927.3	11675.5
47.5°	10881.1	10905.2	11020.7	11309.6	11237.4	11015.9	12108.8	13909.5	13928.8	14443.9	13086.2
50°	11184.4	11242.2	11526.3	11969.2	12287.0	12349.6	13625.4	15349.1	15402.0	15893.1	14419.9
52.5°	10847.4	10866.6	11584.0	12417.0	13057.3	13692.8	15146.9	16682.7	16836.8	17202.7	15618.7
55°	9711.1	9850.8	10938.9	12402.5	13664.0	14968.7	16774.2	18122.3	18261.9	18493.0	16673.1
57.5°	8391.9	8546.0	9870.0	11781.4	13923.9	16148.3	18281.2	19653.4	19749.7	19812.3	17640.8
60°	7250.9	7395.3	8757.8	10592.2	13664.0	16981.2	19682.3	21174.8	21256.6	21088.1	18127.1
62.5°	5849.8	5994.2	7366.4	9017.8	12643.3	17149.8	20722.2	22527.7	22561.4	22104.0	17828.6
65°	4410.2	4506.5	5652.4	7067.9	10857.0	16254.2	20958.1	23370.3	23336.6	22397.7	16933.1
66°	3952.8	4034.7	5045.7	6249.4	9927.8	15435.7	20640.4	23437.7	23404.0	22181.1	16345.7
67.5°	3408.8	3432.8	4265.8	5113.2	8305.3	13697.7	19672.6	23129.5	23158.4	21584.0	15272.0
70°	2662.5	2657.7	3139.1	3558.0	5671.6	9744.8	16408.3	21189.2	21328.9	19330.8	13023.6
72.5°	1704.4	1646.6	1925.9	2176.2	3302.8	5657.2	11964.4	17270.1	17506.0	15185.4	9701.5
75°	1015.9	958.1	1025.5	1088.1	1584.0	2720.3	7034.2	11752.5	11978.8	9735.2	5772.8
77.5°	760.7	736.6	741.5	688.5	702.9	1020.7	3211.4	6210.9	6374.6	3986.5	2190.7
80°	582.6	520.0	486.3	510.4	462.2	404.4	1194.0	2137.7	2238.8	943.7	457.4
82.5°	390.0	337.0	313.0	341.8	293.7	226.3	288.9	414.1	404.4	255.2	178.1
85°	202.2	173.3	173.3	173.3	149.3	110.7	125.2	168.5	168.5	134.8	105.9
87.5°	57.8	53.0	62.6	57.8	43.3	43.3	48.1	57.8	57.8	53.0	48.1
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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CATALOG NUMBER: ARCH4-250-750-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2157.0	2137.7	2084.7	2046.2	2007.7	1974.0	1935.5	1925.9	1906.6	1911.4	1901.8
5°	2171.4	2118.4	2027.0	1940.3	1872.9	1815.1	1742.9	1714.0	1675.5	1661.1	1651.4
7.5°	2190.7	2113.6	1978.8	1858.5	1742.9	1627.3	1511.8	1444.4	1401.1	1381.8	1367.4
10°	2234.0	2132.9	1954.7	1767.0	1569.6	1405.9	1290.3	1242.2	1213.3	1208.5	1203.7
12.5°	2291.8	2161.8	1930.7	1651.4	1391.4	1237.4	1165.1	1150.7	1145.9	1145.9	1141.1
15°	2378.4	2209.9	1892.2	1516.6	1251.8	1145.9	1112.2	1088.1	1078.5	1078.5	1078.5
17.5°	2465.1	2267.7	1834.4	1377.0	1155.5	1088.1	1054.4	1040.0	1030.3	1035.1	1030.3
20°	2575.8	2335.1	1757.3	1256.6	1092.9	1040.0	1006.3	991.8	987.0	987.0	987.0
22.5°	2701.0	2412.1	1661.1	1165.1	1040.0	991.8	958.1	943.7	934.0	938.9	938.9
25°	2869.5	2508.4	1559.9	1073.7	987.0	943.7	905.2	885.9	885.9	890.7	895.5
27.5°	3086.2	2624.0	1458.8	1015.9	938.9	895.5	852.2	832.9	837.7	847.4	847.4
30°	3404.0	2782.9	1357.7	953.3	885.9	837.7	799.2	780.0	789.6	808.9	808.9
32.5°	3856.5	3042.9	1271.1	881.1	808.9	755.9	717.4	702.9	727.0	765.5	765.5
35°	4665.4	3519.5	1218.1	808.9	727.0	664.4	616.3	601.8	635.5	683.7	683.7
37.5°	5748.7	4285.0	1237.4	746.3	659.6	587.4	534.4	515.2	539.2	582.6	597.0
40°	6957.2	5209.4	1405.9	693.3	597.0	524.8	471.8	452.6	467.0	486.3	491.1
42.5°	8165.6	6191.6	1723.6	654.8	548.9	471.8	423.7	409.2	418.9	423.7	428.5
45°	9369.3	7164.2	2123.3	630.7	505.5	428.5	380.4	380.4	385.2	385.2	385.2
47.5°	10510.4	8112.7	2542.1	625.9	467.0	385.2	346.7	351.5	351.5	356.3	356.3
50°	11588.8	8960.0	2965.8	640.3	433.3	346.7	317.8	317.8	317.8	322.6	317.8
52.5°	12489.2	9701.5	3408.8	664.4	399.6	317.8	288.9	288.9	288.9	293.7	288.9
55°	13341.4	10375.6	3861.3	698.1	370.7	293.7	264.8	255.2	255.2	260.0	255.2
57.5°	14034.7	10823.3	4289.8	702.9	346.7	269.6	245.5	231.1	231.1	231.1	231.1
60°	14063.6	10563.3	4415.0	616.3	317.8	245.5	221.5	202.2	207.0	207.0	207.0
62.5°	13144.0	9196.0	3548.4	462.2	284.1	221.5	202.2	183.0	183.0	183.0	183.0
65°	11338.5	7154.6	2079.9	365.9	245.5	197.4	178.1	163.7	163.7	163.7	158.9
66°	10491.1	6273.5	1593.6	332.2	231.1	192.6	173.3	158.9	154.1	149.3	149.3
67.5°	9109.3	4959.1	996.6	293.7	211.8	178.1	158.9	144.4	139.6	134.8	134.8
70°	6860.9	3148.8	486.3	226.3	183.0	154.1	139.6	125.2	120.4	115.6	110.7
72.5°	4814.6	1844.0	255.2	173.3	149.3	134.8	120.4	105.9	101.1	96.3	96.3
75°	2720.3	890.7	168.5	125.2	120.4	110.7	101.1	86.7	81.8	81.8	81.8
77.5°	1030.3	308.1	115.6	91.5	96.3	86.7	72.2	72.2	67.4	72.2	67.4
80°	269.6	134.8	72.2	67.4	72.2	62.6	53.0	57.8	57.8	57.8	57.8
82.5°	144.4	77.0	43.3	48.1	43.3	43.3	33.7	38.5	43.3	38.5	43.3
85°	101.1	38.5	24.1	24.1	19.3	19.3	14.4	19.3	24.1	19.3	19.3
87.5°	53.0	14.4	14.4	14.4	14.4	9.6	4.8	0.0	4.8	4.8	4.8
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)