

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: P1211498

Luminaire Tested: **ARCH4-290-750-U-T3RE-HSS**

Issue Date: 11/5/2025

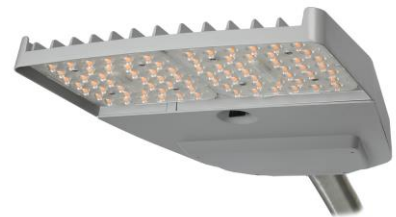
Test Information

Test Method: LM-79-08
Report Number: P1211498
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: ARCH4-290-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA 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: 29543 lumens
Efficiency: N/A
Efficacy: 102.0 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): 289.7
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

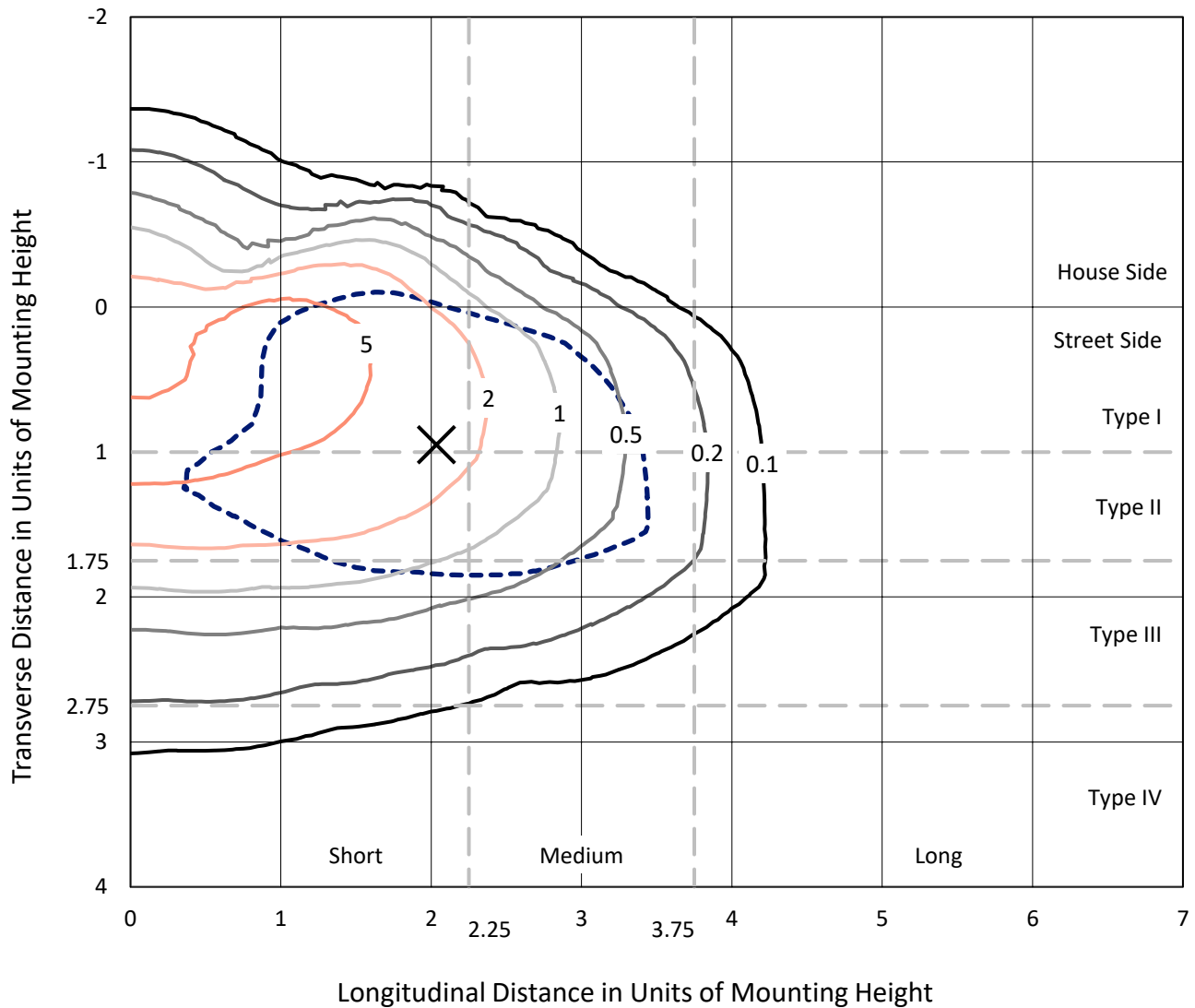


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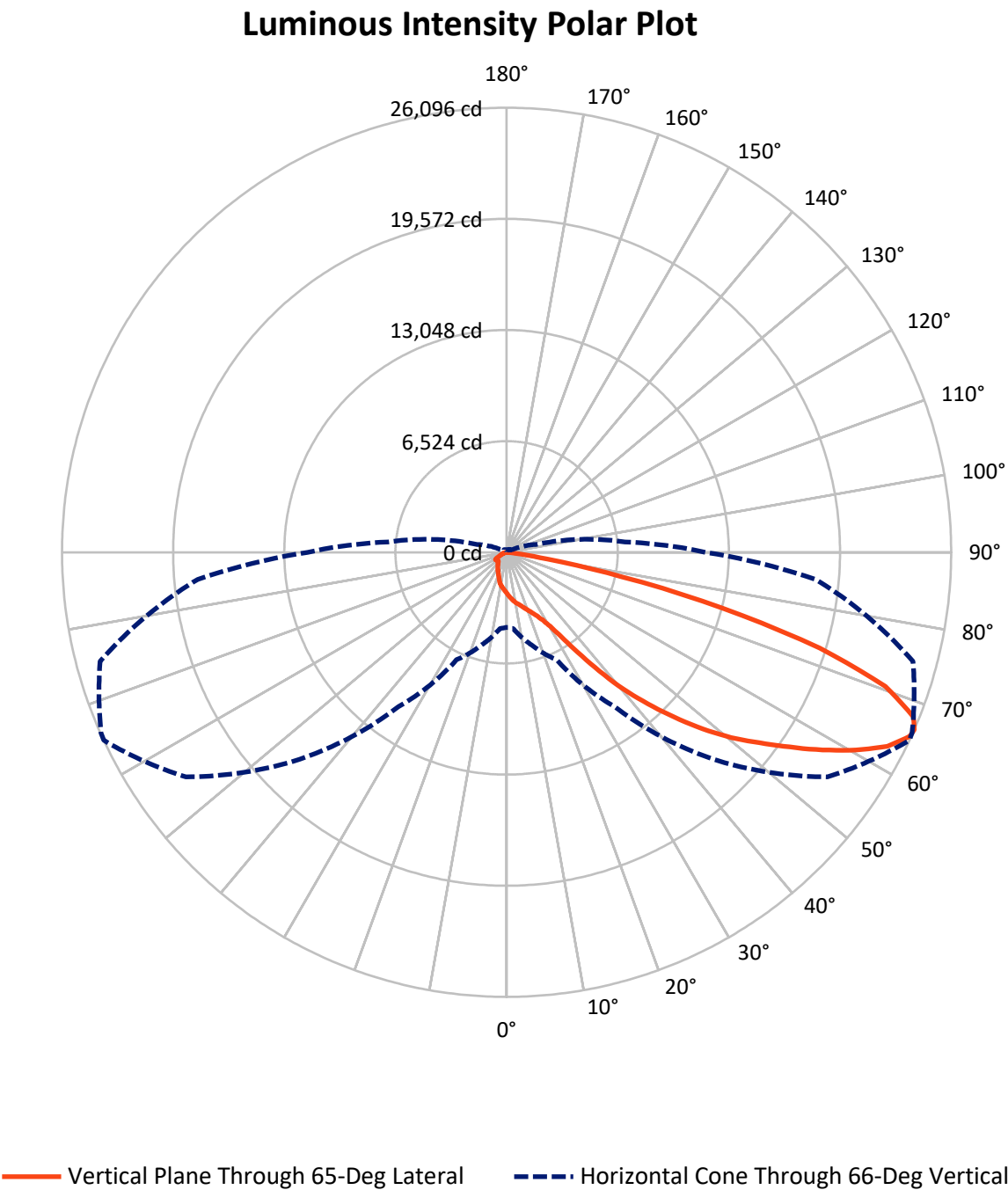
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3486.7	0.0	3486.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	26056.3	0.0	26056.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	29543.0	0.0	29543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	0.8
10°-20°	675.5	2.3
20°-30°	1236.4	4.2
30°-40°	2512.2	8.5
40°-50°	5305.1	18.0
50°-60°	8155.7	27.6
60°-70°	8209.3	27.8
70°-80°	3067.4	10.4
80°-90°	153.2	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°	29543.0	100.0
0°-180°	29543.0	100.0

Coefficient of Utilization



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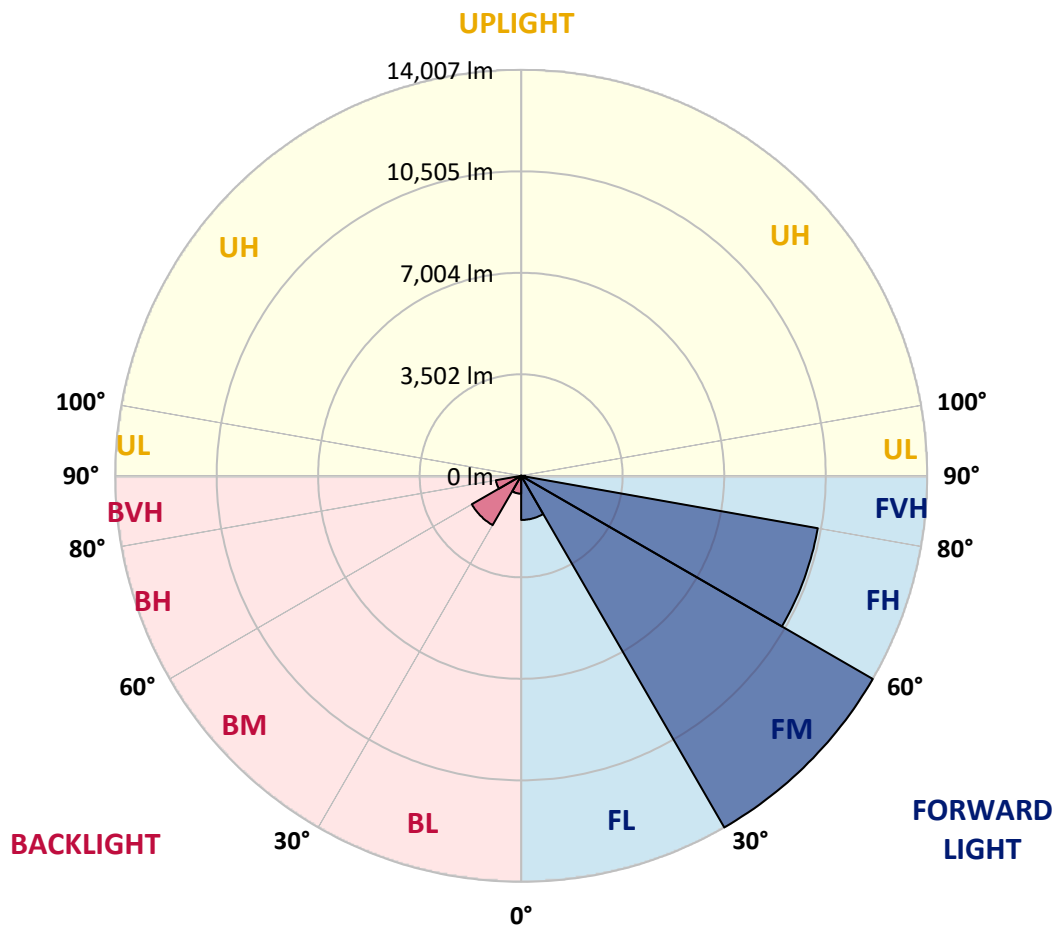
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.9	5.2			
FM	(30°-60°)	14007.2	47.4			
FH	(60°-80°)	10391.0	35.2			G4/12000
FVH	(80°-90°)	135.2	0.5			G2/225
BL	(0°-30°)	617.1	2.1	B2/1000		
BM	(30°-60°)	1965.8	6.7	B2/2500		
BH	(60°-80°)	885.7	3.0	B2/1000		G2/1000
BVH	(80°-90°)	18.0	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°	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9
2.5°	2744.6	2750.0	2739.3	2717.8	2696.4	2669.6	2626.7	2557.0	2546.3	2498.1	2444.4
5°	2932.3	2943.0	2926.9	2921.5	2910.8	2873.3	2814.3	2712.5	2701.8	2605.3	2482.0
7.5°	2996.6	3012.7	3002.0	3002.0	3002.0	2985.9	2959.1	2867.9	2851.9	2728.6	2540.9
10°	3044.8	3055.6	3050.2	3071.6	3087.7	3077.0	3060.9	3007.3	2991.2	2867.9	2621.3
12.5°	3119.9	3125.2	3130.6	3141.3	3168.1	3178.9	3173.5	3125.2	3114.5	3028.8	2723.2
15°	3189.6	3189.6	3194.9	3243.2	3280.7	3302.1	3307.5	3270.0	3259.3	3189.6	2851.9
17.5°	3253.9	3259.3	3275.3	3329.0	3393.3	3436.2	3463.0	3446.9	3430.8	3377.2	3002.0
20°	3350.4	3361.1	3377.2	3452.2	3516.6	3586.3	3639.9	3634.5	3629.1	3591.6	3178.9
22.5°	3516.6	3527.3	3554.1	3623.8	3688.1	3773.9	3865.0	3859.7	3843.6	3816.8	3387.9
25°	3768.5	3768.5	3784.6	3843.6	3924.0	4025.8	4111.6	4127.7	4111.6	4095.5	3650.6
27.5°	4084.8	4090.2	4090.2	4154.5	4229.5	4358.2	4465.4	4481.5	4481.5	4465.4	4004.4
30°	4524.4	4508.3	4497.6	4551.2	4631.6	4819.2	5006.8	5039.0	5022.9	5049.7	4502.9
32.5°	5280.2	5253.4	5162.3	5173.0	5221.3	5478.6	5794.8	5907.4	5902.1	5950.3	5307.0
35°	6325.5	6271.9	6137.9	6025.3	6020.0	6298.7	6781.2	7204.7	7199.3	7365.5	6529.2
37.5°	7504.9	7574.6	7322.6	7129.6	7070.7	7290.5	7912.3	8829.0	8877.2	9166.7	8132.1
40°	9080.9	9123.8	8802.2	8528.8	8250.0	8330.4	9150.6	10576.5	10662.3	10983.9	9734.9
42.5°	10453.2	10496.1	10308.5	9976.1	9622.3	9472.2	10399.6	12163.3	12233.0	12677.9	11386.0
45°	11386.0	11418.1	11482.5	11514.6	11112.6	10801.7	11927.4	13792.9	13878.7	14393.3	12999.5
47.5°	12115.0	12141.8	12270.5	12592.1	12511.7	12265.1	13482.0	15486.9	15508.3	16081.9	14570.2
50°	12452.7	12517.1	12833.4	13326.5	13680.3	13750.0	15170.6	17089.7	17148.7	17695.4	16055.1
52.5°	12077.5	12098.9	12897.7	13825.1	14538.0	15245.6	16864.5	18574.6	18746.1	19153.5	17389.9
55°	10812.4	10967.9	12179.4	13809.0	15213.5	16666.2	18676.4	20177.4	20332.9	20590.2	18563.9
57.5°	9343.6	9515.1	10989.3	13117.5	15502.9	17979.6	20354.3	21882.1	21989.3	22059.0	19641.4
60°	8073.1	8233.9	9751.0	11793.4	15213.5	18906.9	21914.3	23576.1	23667.2	23479.6	20182.8
62.5°	6513.2	6674.0	8201.8	10040.5	14077.0	19094.6	23072.2	25082.4	25119.9	24610.7	19850.4
65°	4910.3	5017.6	6293.4	7869.4	12088.2	18097.5	23334.8	26020.5	25983.0	24937.7	18853.3
66°	4401.1	4492.2	5617.9	6958.1	11053.6	17186.2	22981.0	26095.6	26058.0	24696.4	18199.3
67.5°	3795.3	3822.1	4749.5	5693.0	9247.1	15251.0	21903.5	25752.5	25784.6	24031.7	17003.9
70°	2964.4	2959.1	3495.1	3961.5	6314.8	10849.9	18269.0	23592.1	23747.6	21522.9	14500.5
72.5°	1897.7	1833.3	2144.3	2423.0	3677.4	6298.7	13321.2	19228.6	19491.3	16907.4	10801.7
75°	1131.1	1066.8	1141.8	1211.5	1763.6	3028.8	7831.9	13085.3	13337.2	10839.2	6427.4
77.5°	847.0	820.2	825.5	766.6	782.7	1136.5	3575.5	6915.2	7097.5	4438.6	2439.1
80°	648.6	578.9	541.4	568.2	514.6	450.3	1329.4	2380.1	2492.7	1050.7	509.3
82.5°	434.2	375.2	348.4	380.6	327.0	251.9	321.6	461.0	450.3	284.1	198.3
85°	225.1	193.0	193.0	193.0	166.2	123.3	139.4	187.6	187.6	150.1	117.9
87.5°	64.3	59.0	69.7	64.3	48.2	48.2	53.6	64.3	64.3	59.0	53.6
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°	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9
2.5°	2401.6	2380.1	2321.2	2278.3	2235.4	2197.9	2155.0	2144.3	2122.8	2128.2	2117.4
5°	2417.6	2358.7	2256.8	2160.3	2085.3	2021.0	1940.5	1908.4	1865.5	1849.4	1838.7
7.5°	2439.1	2353.3	2203.2	2069.2	1940.5	1811.9	1683.2	1608.2	1559.9	1538.5	1522.4
10°	2487.3	2374.8	2176.4	1967.4	1747.6	1565.3	1436.6	1383.0	1350.9	1345.5	1340.2
12.5°	2551.7	2406.9	2149.6	1838.7	1549.2	1377.7	1297.3	1281.2	1275.8	1275.8	1270.5
15°	2648.2	2460.5	2106.7	1688.6	1393.8	1275.8	1238.3	1211.5	1200.8	1200.8	1200.8
17.5°	2744.6	2524.9	2042.4	1533.1	1286.6	1211.5	1174.0	1157.9	1147.2	1152.5	1147.2
20°	2867.9	2599.9	1956.6	1399.1	1216.9	1157.9	1120.4	1104.3	1098.9	1098.9	1098.9
22.5°	3007.3	2685.7	1849.4	1297.3	1157.9	1104.3	1066.8	1050.7	1040.0	1045.3	1045.3
25°	3194.9	2792.9	1736.8	1195.4	1098.9	1050.7	1007.8	986.4	986.4	991.7	997.1
27.5°	3436.2	2921.5	1624.3	1131.1	1045.3	997.1	948.8	927.4	932.7	943.5	943.5
30°	3790.0	3098.4	1511.7	1061.4	986.4	932.7	889.9	868.4	879.1	900.6	900.6
32.5°	4293.9	3387.9	1415.2	981.0	900.6	841.6	798.7	782.7	809.5	852.3	852.3
35°	5194.5	3918.6	1356.2	900.6	809.5	739.8	686.2	670.1	707.6	761.2	761.2
37.5°	6400.6	4771.0	1377.7	830.9	734.4	654.0	595.0	573.6	600.4	648.6	664.7
40°	7746.1	5800.2	1565.3	771.9	664.7	584.3	525.3	503.9	520.0	541.4	546.8
42.5°	9091.6	6893.8	1919.1	729.0	611.1	525.3	471.7	455.7	466.4	471.7	477.1
45°	10431.8	7976.6	2364.0	702.2	562.9	477.1	423.5	423.5	428.9	428.9	428.9
47.5°	11702.3	9032.7	2830.4	696.9	520.0	428.9	386.0	391.3	391.3	396.7	396.7
50°	12903.0	9976.1	3302.1	713.0	482.5	386.0	353.8	353.8	353.8	359.2	353.8
52.5°	13905.5	10801.7	3795.3	739.8	444.9	353.8	321.6	321.6	321.6	327.0	321.6
55°	14854.3	11552.2	4299.2	777.3	412.8	327.0	294.8	284.1	284.1	289.5	284.1
57.5°	15626.2	12050.7	4776.3	782.7	386.0	300.2	273.4	257.3	257.3	257.3	257.3
60°	15658.4	11761.2	4915.7	686.2	353.8	273.4	246.6	225.1	230.5	230.5	230.5
62.5°	14634.5	10238.8	3950.8	514.6	316.3	246.6	225.1	203.7	203.7	203.7	203.7
65°	12624.3	7965.9	2315.8	407.4	273.4	219.8	198.3	182.3	182.3	182.3	176.9
66°	11680.8	6984.9	1774.4	369.9	257.3	214.4	193.0	176.9	171.5	166.2	166.2
67.5°	10142.3	5521.4	1109.7	327.0	235.9	198.3	176.9	160.8	155.5	150.1	150.1
70°	7638.9	3505.9	541.4	251.9	203.7	171.5	155.5	139.4	134.0	128.7	123.3
72.5°	5360.6	2053.1	284.1	193.0	166.2	150.1	134.0	117.9	112.6	107.2	107.2
75°	3028.8	991.7	187.6	139.4	134.0	123.3	112.6	96.5	91.1	91.1	91.1
77.5°	1147.2	343.1	128.7	101.9	107.2	96.5	80.4	80.4	75.0	80.4	75.0
80°	300.2	150.1	80.4	75.0	80.4	69.7	59.0	64.3	64.3	64.3	64.3
82.5°	160.8	85.8	48.2	53.6	48.2	48.2	37.5	42.9	48.2	42.9	48.2
85°	112.6	42.9	26.8	26.8	21.4	21.4	16.1	21.4	26.8	21.4	21.4
87.5°	59.0	16.1	16.1	16.1	16.1	10.7	5.4	0.0	5.4	5.4	5.4
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)