

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: P1211039

Luminaire Tested: **ARCH4-150-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23869 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.8
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

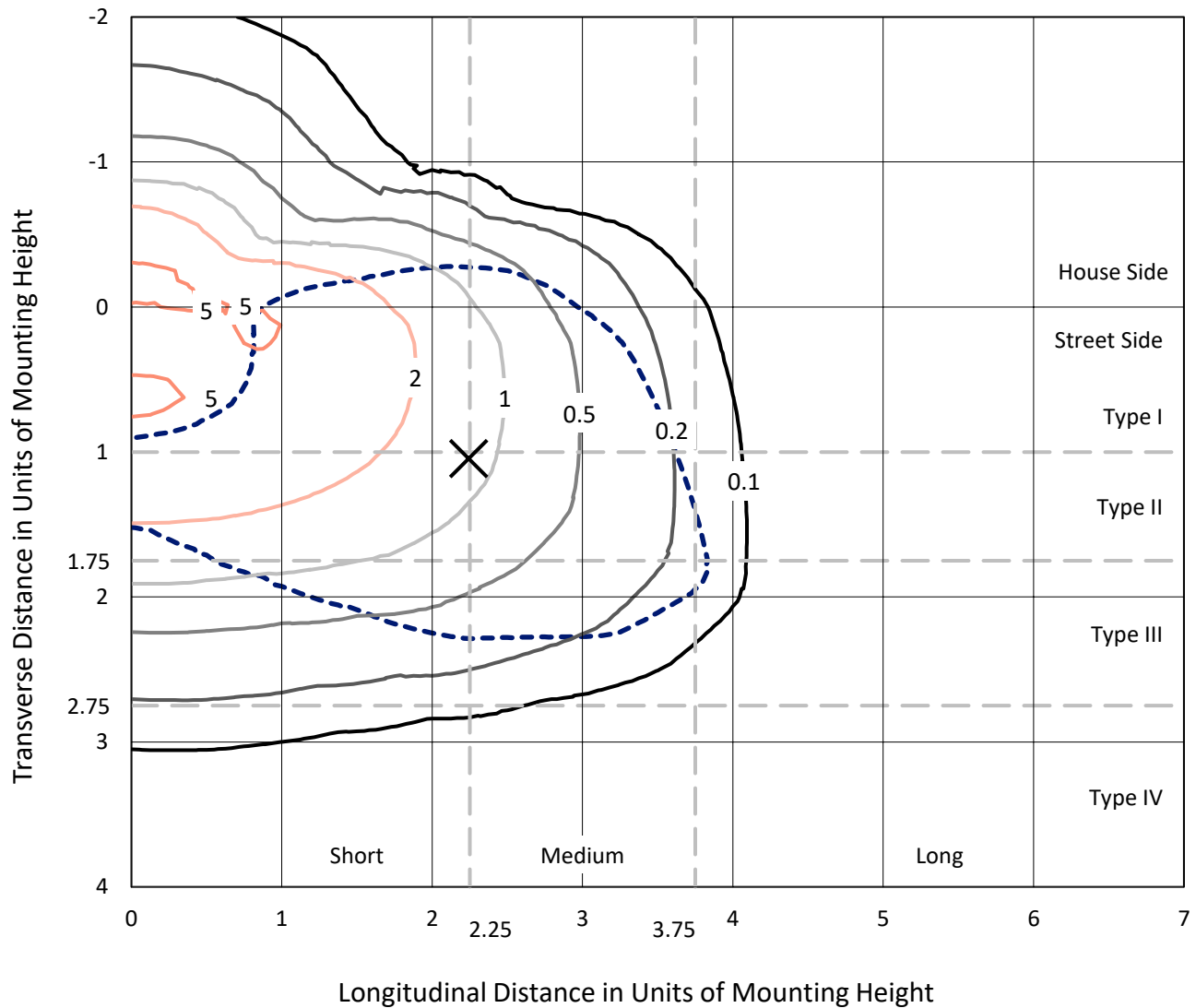


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

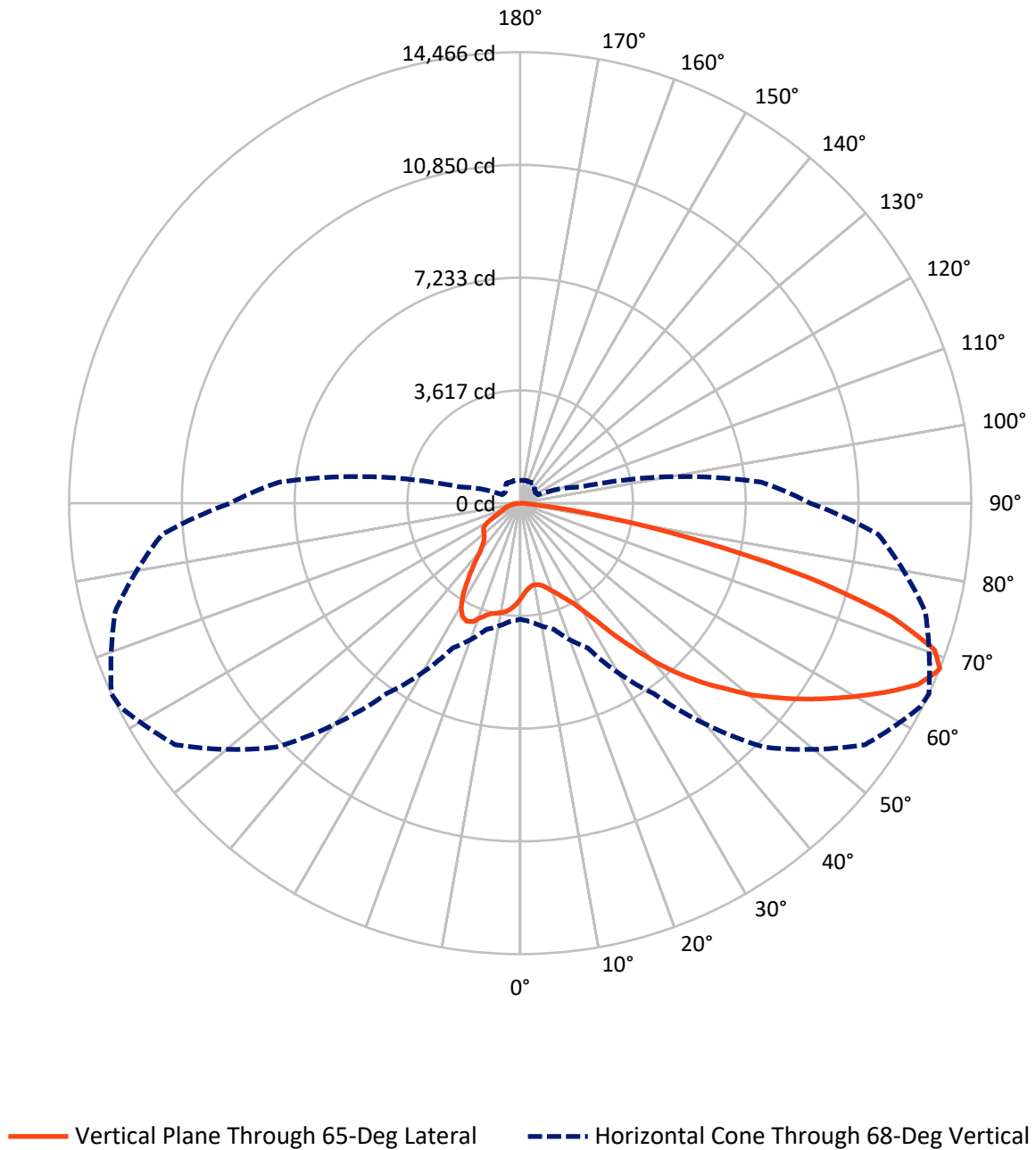


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5852.0	0.0	5852.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	18017.0	0.0	18017.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	23869.0	0.0	23869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.2
10°-20°	949.1	4.0
20°-30°	1717.9	7.2
30°-40°	2702.4	11.3
40°-50°	4024.9	16.9
50°-60°	5279.8	22.1
60°-70°	5773.8	24.2
70°-80°	2857.1	12.0
80°-90°	272.5	1.1
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°	23869.0	100.0
0°-180°	23869.0	100.0

Coefficient of Utilization



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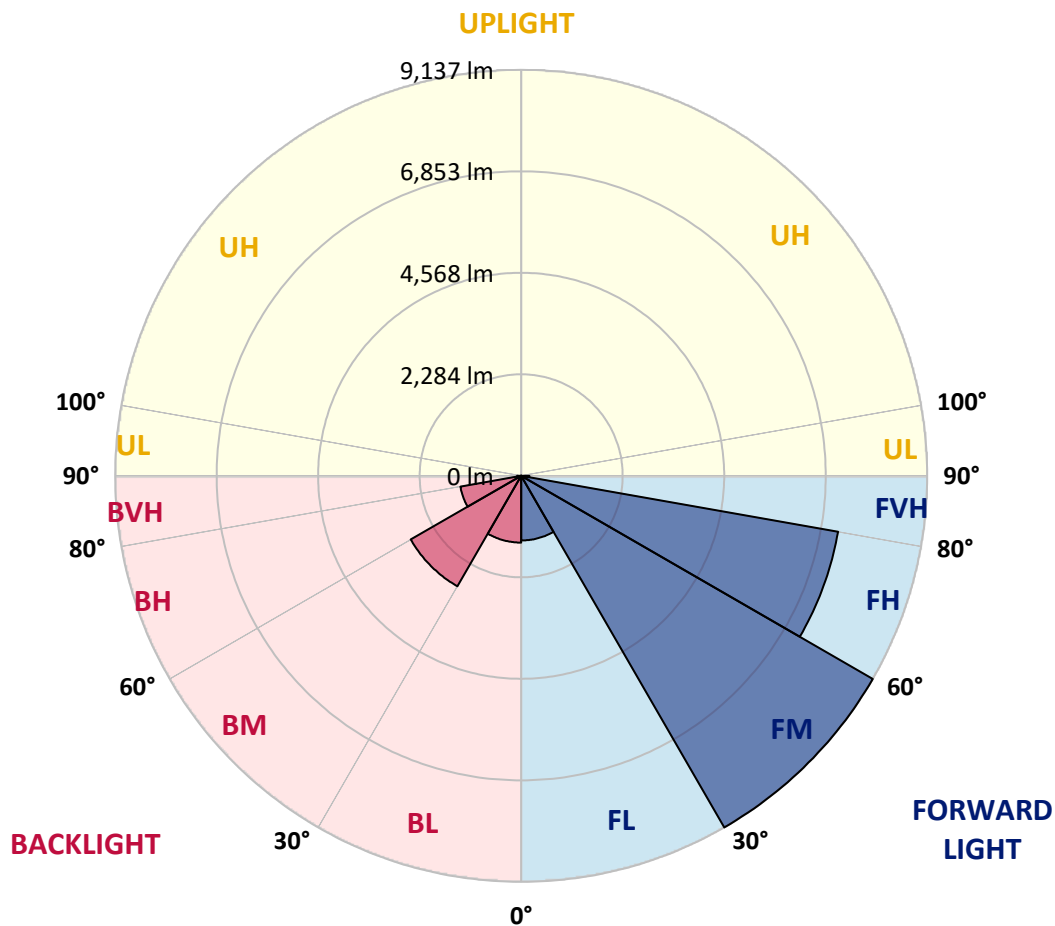
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1455.1	6.1			
FM	(30°-60°)	9136.7	38.3			
FH	(60°-80°)	7241.9	30.3			G3/7500
FVH	(80°-90°)	183.3	0.8			G2/225
BL	(0°-30°)	1503.4	6.3	B3/2500		
BM	(30°-60°)	2870.3	12.0	B3/5000		
BH	(60°-80°)	1389.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	89.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2
2.5°	2662.4	2656.2	2671.6	2687.0	2720.8	2760.8	2816.2	2862.4	2868.6	2954.8	3022.5
5°	2505.4	2496.2	2511.5	2530.0	2545.4	2594.6	2653.1	2720.8	2748.5	2874.7	3019.4
7.5°	2520.8	2517.7	2523.9	2517.7	2517.7	2539.2	2579.3	2647.0	2677.7	2828.6	3034.8
10°	2610.0	2616.2	2619.3	2600.8	2582.3	2573.1	2585.4	2631.6	2653.1	2831.6	3102.5
12.5°	2757.8	2767.0	2770.1	2736.2	2711.6	2671.6	2650.0	2668.5	2683.9	2862.4	3197.9
15°	2957.8	2964.0	2942.4	2920.9	2859.3	2810.1	2757.8	2742.4	2748.5	2927.1	3305.6
17.5°	3191.7	3182.5	3182.5	3130.2	3050.2	2973.2	2887.0	2874.7	2874.7	3031.7	3459.5
20°	3447.2	3456.4	3428.7	3358.0	3277.9	3157.9	3071.7	3016.3	3022.5	3151.7	3647.3
22.5°	3816.6	3831.9	3758.1	3656.5	3533.4	3394.9	3271.8	3182.5	3185.6	3308.7	3841.2
25°	4213.6	4219.8	4173.6	4038.2	3872.0	3675.0	3511.8	3398.0	3394.9	3484.1	4090.5
27.5°	4619.9	4647.6	4555.2	4426.0	4272.1	4025.9	3810.4	3656.5	3631.9	3751.9	4401.4
30°	5038.5	5072.3	4983.1	4856.9	4666.0	4456.8	4201.3	4022.8	4007.4	4167.4	4816.9
32.5°	5460.1	5469.4	5398.6	5293.9	5121.6	4924.6	4718.4	4521.4	4506.0	4767.6	5355.5
35°	5804.9	5832.6	5783.3	5758.7	5632.5	5450.9	5250.8	5137.0	5177.0	5512.5	6054.2
37.5°	6220.4	6248.1	6192.7	6186.5	6146.5	5989.5	5851.0	5860.3	5900.3	6355.8	6789.8
40°	6820.6	6851.3	6709.8	6648.2	6648.2	6494.3	6448.1	6666.7	6719.0	7186.8	7556.2
42.5°	7328.4	7377.7	7294.5	7254.5	7134.5	7026.8	7082.2	7390.0	7479.2	7980.9	8224.1
45°	7574.6	7611.6	7710.1	7827.0	7710.1	7522.3	7731.6	8079.4	8205.6	8713.4	8892.0
47.5°	7707.0	7740.8	7854.7	8168.7	8248.7	8091.7	8387.2	8821.2	8907.4	9439.8	9529.1
50°	7725.5	7833.2	7980.9	8294.9	8661.1	8682.7	9045.9	9575.2	9676.8	10153.9	10089.3
52.5°	7574.6	7617.7	7922.4	8451.8	8858.1	9227.5	9763.0	10298.5	10372.4	10824.9	10584.8
55°	7328.4	7390.0	7694.7	8414.9	9048.9	9744.5	10492.5	11009.5	11092.6	11477.4	11043.4
57.5°	7106.8	7137.6	7463.8	8307.2	9239.8	10261.6	11141.9	11751.3	11806.7	12049.9	11382.0
60°	6860.6	6894.4	7220.7	8076.3	9381.3	10652.5	11819.0	12499.2	12548.5	12653.1	11775.9
62.5°	6223.5	6312.7	6722.1	7694.7	9344.4	11098.8	12542.3	13237.9	13299.5	13185.6	12086.8
65°	5053.9	5180.1	5681.7	6829.8	8999.7	11388.1	13133.3	13918.1	14022.8	13585.7	12169.9
67.5°	3924.3	4013.5	4416.7	5420.1	7790.1	11243.5	13514.9	14386.0	14416.7	13521.1	11708.2
68°	3721.1	3810.4	4195.1	5124.7	7454.6	11071.1	13505.7	14398.3	14466.0	13450.3	11529.7
70°	2847.0	2948.6	3314.9	4059.7	6008.0	9975.4	12942.4	14102.8	14093.6	12594.6	10421.7
72.5°	1779.0	1837.5	2089.9	2560.8	3973.5	7590.0	10984.9	12437.7	12462.3	10267.8	7993.2
75°	1129.6	1129.6	1117.3	1240.4	2037.5	4324.4	8165.6	9575.2	9593.7	7189.9	5038.5
77.5°	981.8	954.1	821.8	695.6	812.6	1680.5	4832.3	6183.4	6081.9	3872.0	2391.5
80°	827.9	781.8	674.1	560.2	523.2	526.3	1856.0	3139.4	3004.0	1394.3	794.1
82.5°	597.1	557.1	507.8	440.1	403.2	313.9	387.8	908.0	886.4	403.2	258.5
85°	323.2	292.4	286.2	289.3	243.2	193.9	163.1	200.1	200.1	175.4	147.7
87.5°	113.9	83.1	98.5	110.8	95.4	80.0	64.6	76.9	80.0	76.9	70.8
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°	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2	3050.2
2.5°	3062.5	3093.3	3167.1	3231.8	3277.9	3317.9	3339.5	3348.7	3370.3	3373.3	3367.2
5°	3087.1	3167.1	3277.9	3373.3	3425.7	3447.2	3453.4	3456.4	3447.2	3453.4	3447.2
7.5°	3151.7	3253.3	3410.3	3493.4	3502.6	3468.8	3471.8	3459.5	3471.8	3484.1	3484.1
10°	3250.2	3379.5	3527.2	3558.0	3518.0	3499.5	3536.5	3610.3	3635.0	3668.8	3668.8
12.5°	3379.5	3533.4	3638.0	3610.3	3573.4	3635.0	3742.7	3816.6	3841.2	3853.5	3844.3
15°	3527.2	3693.4	3745.8	3653.4	3721.1	3853.5	3890.4	3847.3	3785.8	3758.1	3773.5
17.5°	3715.0	3853.5	3822.7	3761.2	3915.0	3933.5	3813.5	3675.0	3576.5	3539.5	3564.2
20°	3912.0	4032.0	3890.4	3918.1	4013.5	3816.6	3588.8	3410.3	3324.1	3308.7	3333.3
22.5°	4121.3	4198.2	3958.1	4099.7	3958.1	3558.0	3284.1	3191.7	3170.2	3194.8	3216.4
25°	4358.3	4349.0	4075.1	4155.1	3751.9	3241.0	3077.9	3071.7	3071.7	3087.1	3117.9
27.5°	4626.0	4481.4	4192.1	4081.3	3394.9	2979.4	2948.6	2951.7	2942.4	2945.5	2960.9
30°	4936.9	4659.9	4321.3	3838.1	2994.8	2782.4	2770.1	2760.8	2739.3	2733.1	2739.3
32.5°	5327.8	4847.6	4453.7	3438.0	2643.9	2579.3	2573.1	2523.9	2471.5	2465.4	2486.9
35°	5823.3	5189.3	4521.4	2936.3	2354.6	2351.5	2329.9	2253.0	2185.3	2185.3	2169.9
37.5°	6389.7	5629.4	4549.1	2446.9	2114.5	2129.9	2068.3	1969.8	1917.5	1886.7	1896.0
40°	6968.3	6131.1	4546.0	2019.1	1905.2	1908.3	1862.1	1742.1	1612.8	1535.9	1554.3
42.5°	7525.4	6586.6	4466.0	1791.3	1735.9	1726.7	1689.7	1526.6	1418.9	1357.3	1360.4
45°	7971.7	7057.6	4342.9	1655.9	1582.0	1597.4	1514.3	1415.8	1317.3	1261.9	1258.8
47.5°	8418.0	7414.6	4145.9	1572.8	1468.1	1440.4	1406.6	1338.9	1265.0	1203.4	1206.5
50°	8824.2	7719.3	3961.2	1517.4	1363.5	1292.7	1298.9	1258.8	1194.2	1138.8	1135.7
52.5°	9110.5	7919.4	3859.6	1486.6	1237.3	1160.4	1181.9	1160.4	1098.8	1058.8	1055.7
55°	9396.7	8073.2	3893.5	1446.6	1098.8	1037.2	1074.2	1068.0	1034.2	1021.9	1024.9
57.5°	9627.6	8190.2	4013.5	1372.7	966.5	929.5	991.1	972.6	948.0	951.1	951.1
60°	9852.3	8341.0	4155.1	1203.4	852.6	855.6	914.1	880.3	864.9	892.6	895.7
62.5°	10086.2	8504.2	4038.2	957.2	754.1	775.6	843.3	815.6	821.8	861.8	874.1
65°	10058.5	8488.8	3290.2	784.9	667.9	711.0	812.6	803.3	806.4	821.8	827.9
67.5°	9492.1	7947.1	2262.2	667.9	606.3	658.7	787.9	751.0	754.1	744.8	747.9
68°	9301.3	7756.2	1994.5	649.4	594.0	646.4	775.6	741.8	744.8	735.6	732.5
70°	8261.0	6642.0	1261.9	572.5	550.9	612.5	714.1	701.8	698.7	692.5	692.5
72.5°	6297.3	4903.0	664.8	495.5	501.7	560.2	637.1	661.7	646.4	649.4	667.9
75°	4170.5	2948.6	461.7	424.7	440.1	480.1	566.3	615.6	600.2	609.4	600.2
77.5°	2206.8	1588.2	369.3	360.1	360.1	387.8	467.8	544.8	544.8	538.6	529.4
80°	723.3	560.2	295.5	283.2	289.3	304.7	375.5	446.3	455.5	443.2	437.1
82.5°	243.2	258.5	221.6	206.2	212.4	224.7	283.2	341.6	344.7	320.1	313.9
85°	150.8	172.4	138.5	135.4	135.4	138.5	172.4	187.7	172.4	153.9	160.0
87.5°	70.8	86.2	64.6	55.4	46.2	40.0	30.8	12.3	12.3	6.2	6.2
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)