

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: P1211007

Luminaire Tested: **ARCH4-140-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211007
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: ARCH4-140-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22584 lumens
Efficiency: N/A
Efficacy: 159.8 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): 141.3
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

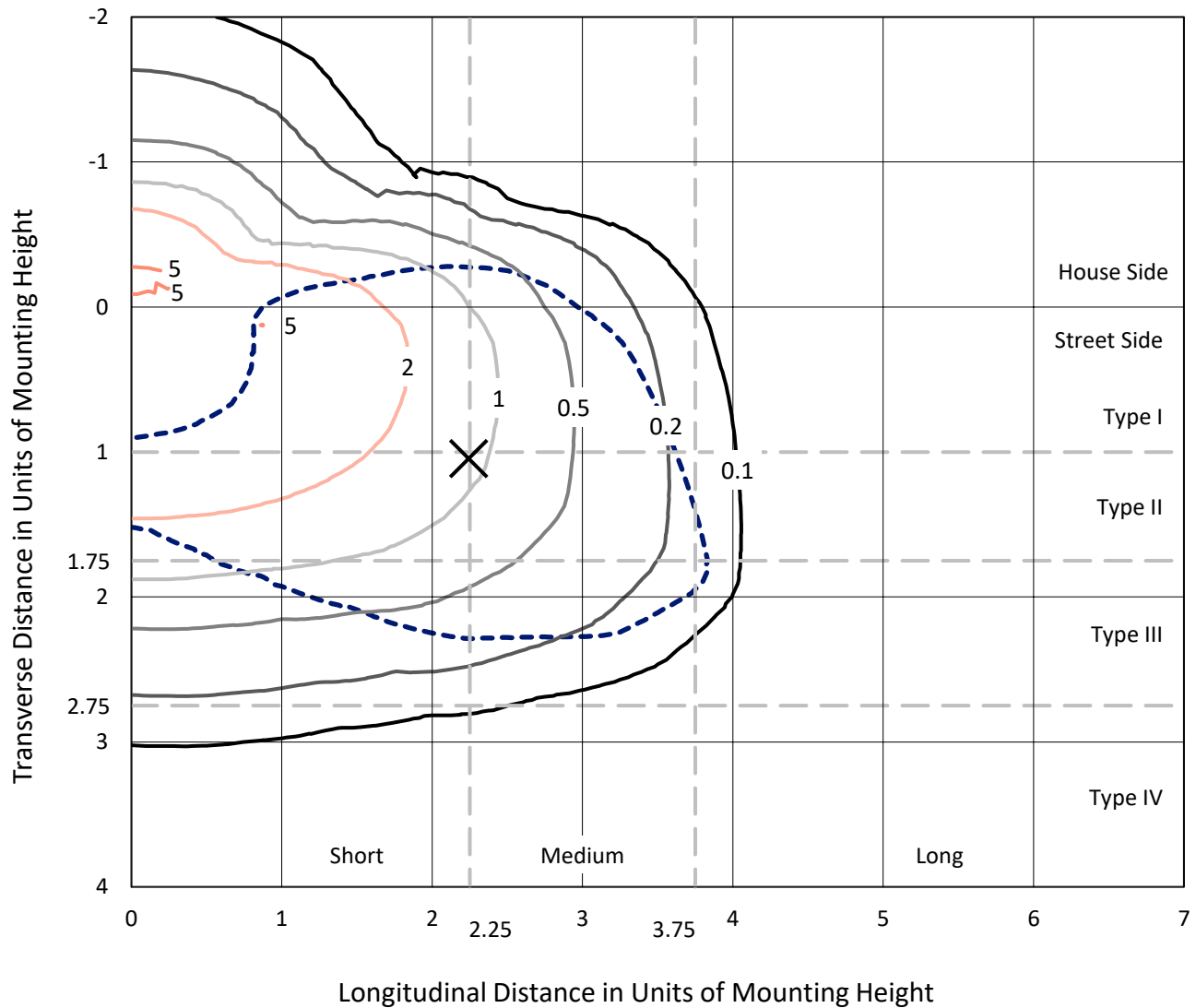


REPORT NUMBER: P1211007

CATALOG NUMBER: ARCH4-140-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

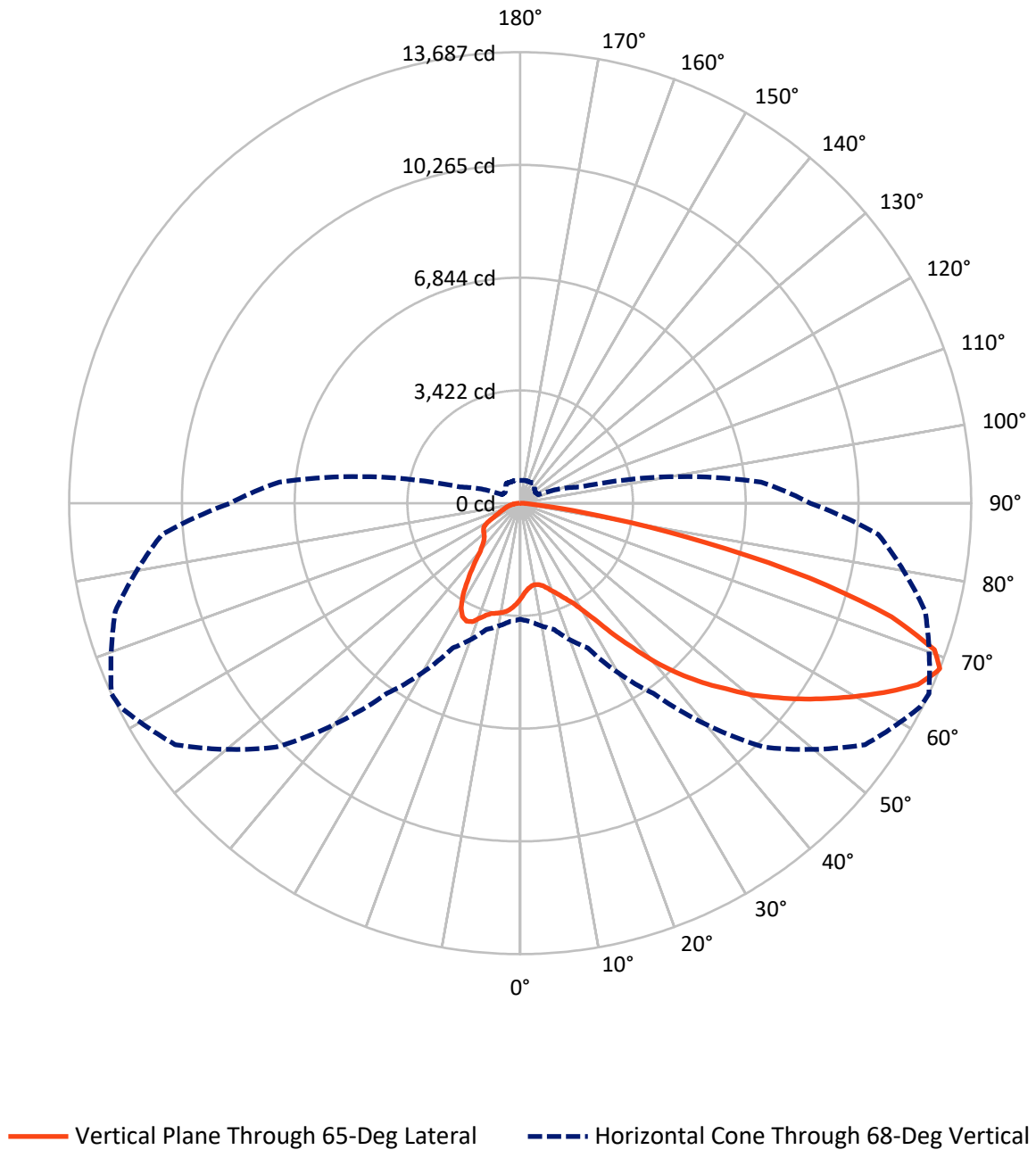


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Short - N/A

REPORT NUMBER: P1211007

CATALOG NUMBER: ARCH4-140-730-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211007

CATALOG NUMBER: ARCH4-140-730-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5536.9	0.0	5536.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	17047.1	0.0	17047.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	22584.0	0.0	22584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.2
10°-20°	898.0	4.0
20°-30°	1625.4	7.2
30°-40°	2556.9	11.3
40°-50°	3808.2	16.9
50°-60°	4995.6	22.1
60°-70°	5463.0	24.2
70°-80°	2703.2	12.0
80°-90°	257.9	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°	22584.0	100.0
0°-180°	22584.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211007

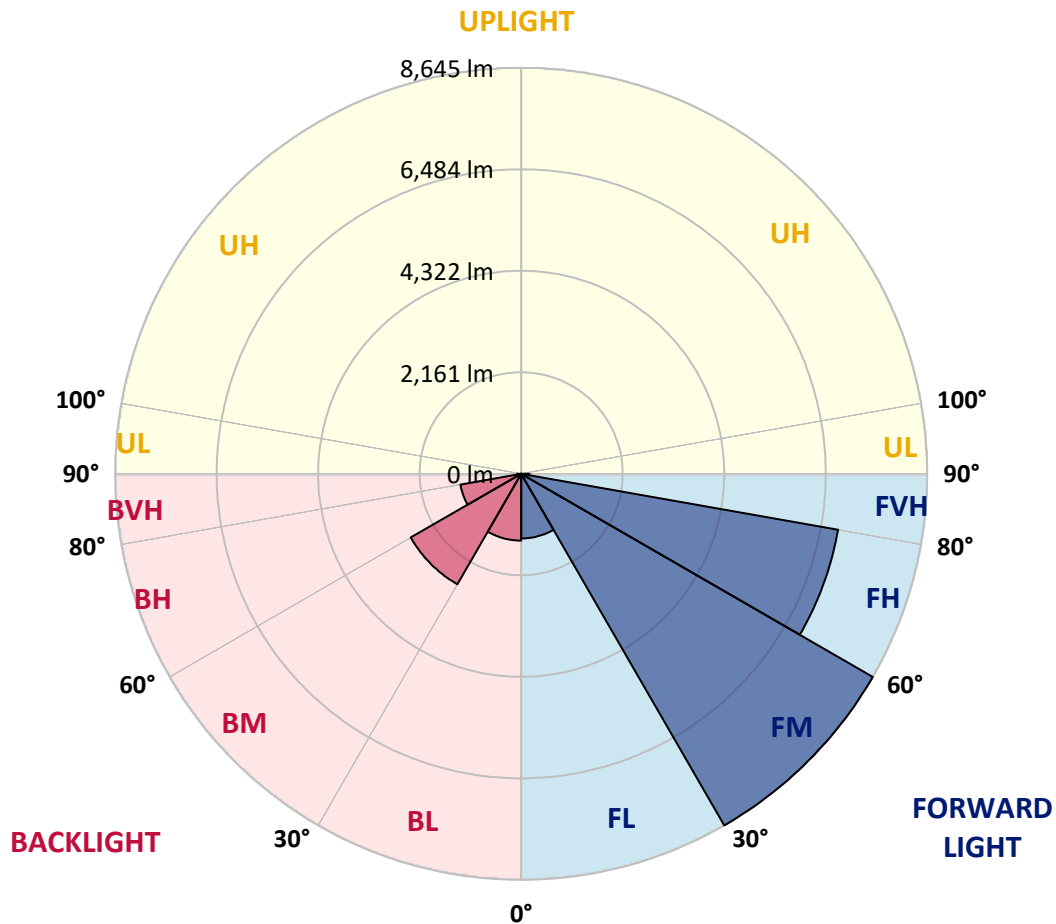
CATALOG NUMBER: ARCH4-140-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1376.7	6.1			
FM	(30°-60°)	8644.8	38.3			
FH	(60°-80°)	6852.0	30.3			G3/7500
FVH	(80°-90°)	173.4	0.8			G2/225
BL	(0°-30°)	1422.5	6.3	B3/2500		
BM	(30°-60°)	2715.8	12.0	B3/5000		
BH	(60°-80°)	1314.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	84.4	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



REPORT NUMBER: P1211007

CATALOG NUMBER: ARCH4-140-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0
2.5°	2519.0	2513.2	2527.8	2542.3	2574.4	2612.2	2664.6	2708.3	2714.1	2795.7	2859.8
5°	2370.5	2361.8	2376.3	2393.8	2408.4	2455.0	2510.3	2574.4	2600.6	2720.0	2856.8
7.5°	2385.1	2382.2	2388.0	2382.2	2382.2	2402.5	2440.4	2504.5	2533.6	2676.3	2871.4
10°	2469.5	2475.3	2478.3	2460.8	2443.3	2434.6	2446.2	2489.9	2510.3	2679.2	2935.5
12.5°	2609.3	2618.0	2621.0	2588.9	2565.6	2527.8	2507.4	2524.9	2539.4	2708.3	3025.7
15°	2798.6	2804.4	2784.0	2763.6	2705.4	2658.8	2609.3	2594.7	2600.6	2769.5	3127.7
17.5°	3019.9	3011.2	3011.2	2961.7	2886.0	2813.2	2731.6	2720.0	2720.0	2868.5	3273.3
20°	3261.6	3270.4	3244.2	3177.2	3101.5	2987.9	2906.3	2853.9	2859.8	2982.1	3450.9
22.5°	3611.1	3625.7	3555.8	3459.7	3343.2	3212.1	3095.6	3011.2	3014.1	3130.6	3634.4
25°	3986.8	3992.6	3948.9	3820.8	3663.5	3477.1	3322.8	3215.0	3212.1	3296.6	3870.3
27.5°	4371.2	4397.4	4310.0	4187.7	4042.1	3809.1	3605.3	3459.7	3436.4	3549.9	4164.4
30°	4767.2	4799.3	4714.8	4595.4	4414.8	4216.8	3975.1	3806.2	3791.6	3943.1	4557.5
32.5°	5166.2	5174.9	5107.9	5008.9	4845.9	4659.5	4464.4	4278.0	4263.4	4511.0	5067.2
35°	5492.4	5518.6	5472.0	5448.7	5329.3	5157.5	4968.2	4860.4	4898.3	5215.7	5728.2
37.5°	5885.5	5911.7	5859.3	5853.5	5815.6	5667.1	5536.0	5544.8	5582.6	6013.6	6424.2
40°	6453.4	6482.5	6348.5	6290.3	6290.3	6144.7	6101.0	6307.8	6357.3	6799.9	7149.4
42.5°	6933.9	6980.5	6901.8	6864.0	6750.4	6648.5	6700.9	6992.1	7076.6	7551.3	7781.3
45°	7166.9	7201.8	7295.0	7405.6	7295.0	7117.3	7315.4	7644.4	7763.8	8244.4	8413.3
47.5°	7292.1	7324.1	7431.9	7728.9	7804.6	7656.1	7935.7	8346.3	8427.8	8931.6	9016.1
50°	7309.5	7411.5	7551.3	7848.3	8194.8	8215.2	8558.9	9059.8	9155.9	9607.2	9546.1
52.5°	7166.9	7207.6	7495.9	7996.8	8381.2	8730.7	9237.4	9744.1	9814.0	10242.1	10015.0
55°	6933.9	6992.1	7280.4	7961.9	8561.8	9219.9	9927.6	10416.8	10495.5	10859.5	10448.9
57.5°	6724.2	6753.3	7062.0	7859.9	8742.3	9709.2	10542.1	11118.7	11171.1	11401.1	10769.2
60°	6491.2	6523.3	6832.0	7641.5	8876.3	10079.0	11182.7	11826.3	11872.9	11971.9	11142.0
62.5°	5888.4	5972.9	6360.2	7280.4	8841.3	10501.3	11867.1	12525.2	12583.5	12475.7	11436.1
65°	4781.8	4901.2	5375.9	6462.1	8515.2	10775.0	12426.2	13168.8	13267.8	12854.3	11514.7
67.5°	3713.0	3797.5	4179.0	5128.3	7370.7	10638.2	12787.3	13611.5	13640.6	12793.2	11077.9
68°	3520.8	3605.3	3969.3	4848.8	7053.3	10475.1	12778.6	13623.1	13687.2	12726.2	10909.0
70°	2693.8	2789.9	3136.4	3841.2	5684.6	9438.3	12245.7	13343.6	13334.8	11916.6	9860.6
72.5°	1683.2	1738.6	1977.4	2422.9	3759.6	7181.4	10393.5	11768.1	11791.4	9715.0	7562.9
75°	1068.8	1068.8	1057.1	1173.6	1927.9	4091.6	7726.0	9059.8	9077.2	6802.8	4767.2
77.5°	929.0	902.8	777.5	658.2	768.8	1590.0	4572.1	5850.5	5754.4	3663.5	2262.8
80°	783.4	739.7	637.8	530.0	495.1	498.0	1756.0	2970.4	2842.3	1319.2	751.3
82.5°	565.0	527.1	480.5	416.4	381.5	297.0	366.9	859.1	838.7	381.5	244.6
85°	305.8	276.7	270.8	273.7	230.1	183.5	154.3	189.3	189.3	166.0	139.8
87.5°	107.8	78.6	93.2	104.8	90.3	75.7	61.2	72.8	75.7	72.8	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211007

CATALOG NUMBER: ARCH4-140-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0	2886.0
2.5°	2897.6	2926.7	2996.6	3057.8	3101.5	3139.3	3159.7	3168.4	3188.8	3191.7	3185.9
5°	2920.9	2996.6	3101.5	3191.7	3241.2	3261.6	3267.5	3270.4	3261.6	3267.5	3261.6
7.5°	2982.1	3078.2	3226.7	3305.3	3314.0	3282.0	3284.9	3273.3	3284.9	3296.6	3296.6
10°	3075.3	3197.6	3337.3	3366.5	3328.6	3311.1	3346.1	3416.0	3439.3	3471.3	3471.3
12.5°	3197.6	3343.2	3442.2	3416.0	3381.0	3439.3	3541.2	3611.1	3634.4	3646.0	3637.3
15°	3337.3	3494.6	3544.1	3456.7	3520.8	3646.0	3681.0	3640.2	3582.0	3555.8	3570.3
17.5°	3515.0	3646.0	3616.9	3558.7	3704.3	3721.8	3608.2	3477.1	3383.9	3349.0	3372.3
20°	3701.4	3814.9	3681.0	3707.2	3797.5	3611.1	3395.6	3226.7	3145.1	3130.6	3153.9
22.5°	3899.4	3972.2	3745.1	3879.0	3745.1	3366.5	3107.3	3019.9	2999.5	3022.8	3043.2
25°	4123.6	4114.9	3855.7	3931.4	3549.9	3066.5	2912.2	2906.3	2906.3	2920.9	2950.0
27.5°	4377.0	4240.1	3966.4	3861.5	3212.1	2819.0	2789.9	2792.8	2784.0	2786.9	2801.5
30°	4671.1	4409.0	4088.7	3631.5	2833.5	2632.6	2621.0	2612.2	2591.8	2586.0	2591.8
32.5°	5041.0	4586.7	4213.9	3252.9	2501.6	2440.4	2434.6	2388.0	2338.5	2332.6	2353.0
35°	5509.8	4909.9	4278.0	2778.2	2227.8	2224.9	2204.5	2131.7	2067.6	2067.6	2053.1
37.5°	6045.7	5326.4	4304.2	2315.2	2000.7	2015.2	1957.0	1863.8	1814.3	1785.2	1793.9
40°	6593.2	5801.0	4301.3	1910.4	1802.6	1805.5	1761.9	1648.3	1526.0	1453.2	1470.6
42.5°	7120.3	6232.0	4225.6	1694.9	1642.5	1633.7	1598.8	1444.4	1342.5	1284.3	1287.2
45°	7542.5	6677.6	4109.1	1566.7	1496.9	1511.4	1432.8	1339.6	1246.4	1194.0	1191.1
47.5°	7964.8	7015.4	3922.7	1488.1	1389.1	1362.9	1330.9	1266.8	1196.9	1138.7	1141.6
50°	8349.2	7303.7	3748.0	1435.7	1290.1	1223.1	1228.9	1191.1	1129.9	1077.5	1074.6
52.5°	8620.0	7493.0	3651.9	1406.6	1170.7	1097.9	1118.3	1097.9	1039.6	1001.8	998.9
55°	8890.9	7638.6	3683.9	1368.7	1039.6	981.4	1016.3	1010.5	978.5	966.8	969.8
57.5°	9109.3	7749.3	3797.5	1298.8	914.4	879.5	937.7	920.2	896.9	899.9	899.9
60°	9321.9	7892.0	3931.4	1138.7	806.7	809.6	864.9	832.9	818.3	844.5	847.4
62.5°	9543.2	8046.3	3820.8	905.7	713.5	733.9	797.9	771.7	777.5	815.4	827.1
65°	9517.0	8031.8	3113.1	742.6	631.9	672.7	768.8	760.1	763.0	777.5	783.4
67.5°	8981.1	7519.2	2140.4	631.9	573.7	623.2	745.5	710.6	713.5	704.7	707.7
68°	8800.6	7338.7	1887.1	614.5	562.0	611.6	733.9	701.8	704.7	696.0	693.1
70°	7816.3	6284.5	1194.0	541.7	521.3	579.5	675.6	664.0	661.1	655.2	655.2
72.5°	5958.3	4639.1	629.0	468.9	474.7	530.0	602.8	626.1	611.6	614.5	631.9
75°	3946.0	2789.9	436.8	401.9	416.4	454.3	535.8	582.4	567.9	576.6	567.9
77.5°	2088.0	1502.7	349.5	340.7	340.7	366.9	442.6	515.5	515.5	509.6	500.9
80°	684.4	530.0	279.6	267.9	273.7	288.3	355.3	422.3	431.0	419.4	413.5
82.5°	230.1	244.6	209.7	195.1	200.9	212.6	267.9	323.3	326.2	302.9	297.0
85°	142.7	163.1	131.0	128.1	128.1	131.0	163.1	177.6	163.1	145.6	151.4
87.5°	67.0	81.5	61.2	52.4	43.7	37.9	29.1	11.6	11.6	5.8	5.8
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)