

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: P1211019

Luminaire Tested: **ARCH4-140-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211019
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: ARCH4-140-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23713 lumens
Efficiency: N/A
Efficacy: 167.8 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

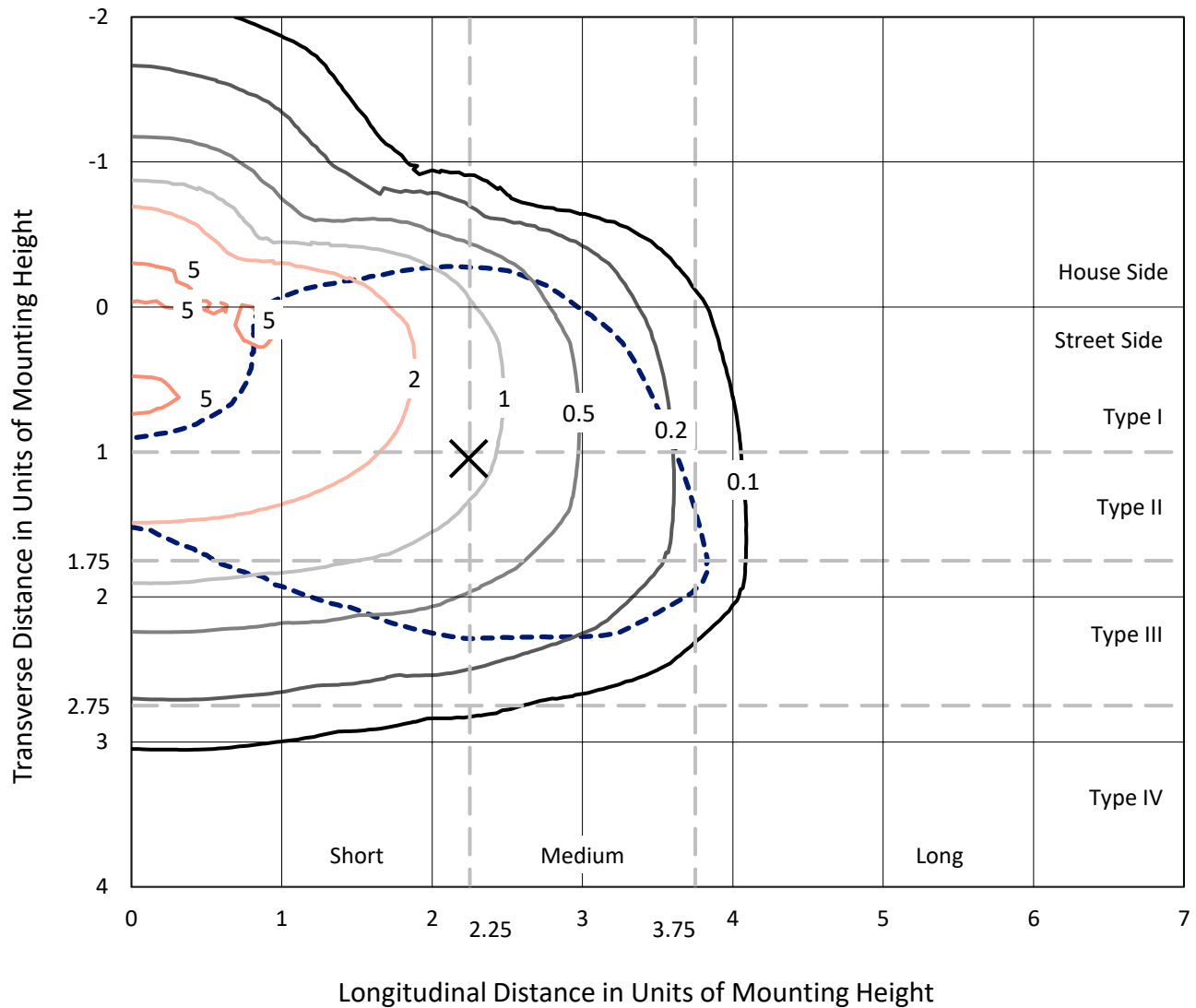


REPORT NUMBER: P1211019

CATALOG NUMBER: ARCH4-140-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

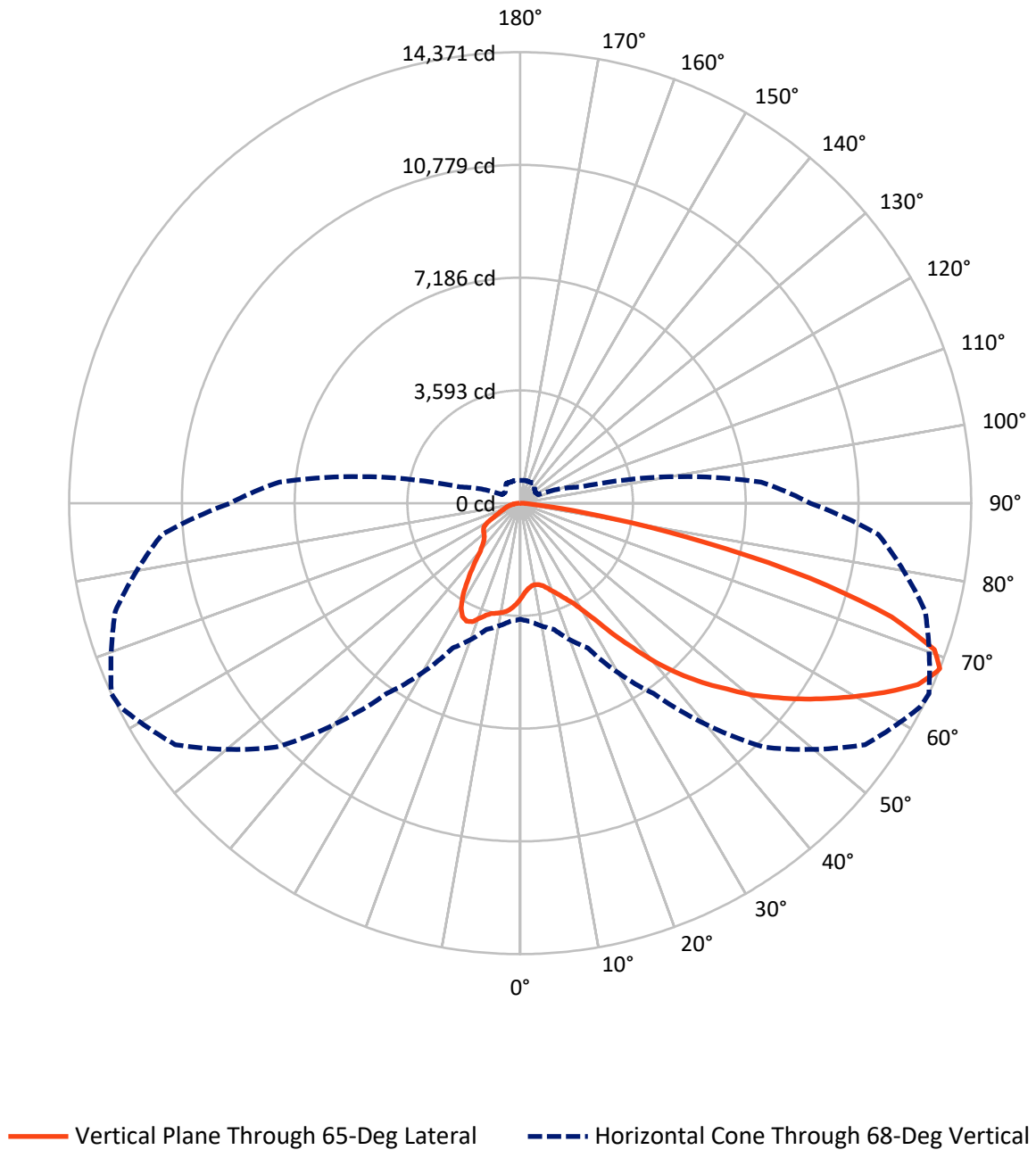


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Short - N/A

REPORT NUMBER: P1211019

CATALOG NUMBER: ARCH4-140-750-U-T3RE

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5813.7	0.0	5813.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	17899.3	0.0	17899.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	23713.0	0.0	23713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	1.2
10°-20°	942.9	4.0
20°-30°	1706.6	7.2
30°-40°	2684.7	11.3
40°-50°	3998.6	16.9
50°-60°	5245.3	22.1
60°-70°	5736.1	24.2
70°-80°	2838.4	12.0
80°-90°	270.7	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°	23713.0	100.0
0°-180°	23713.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211019

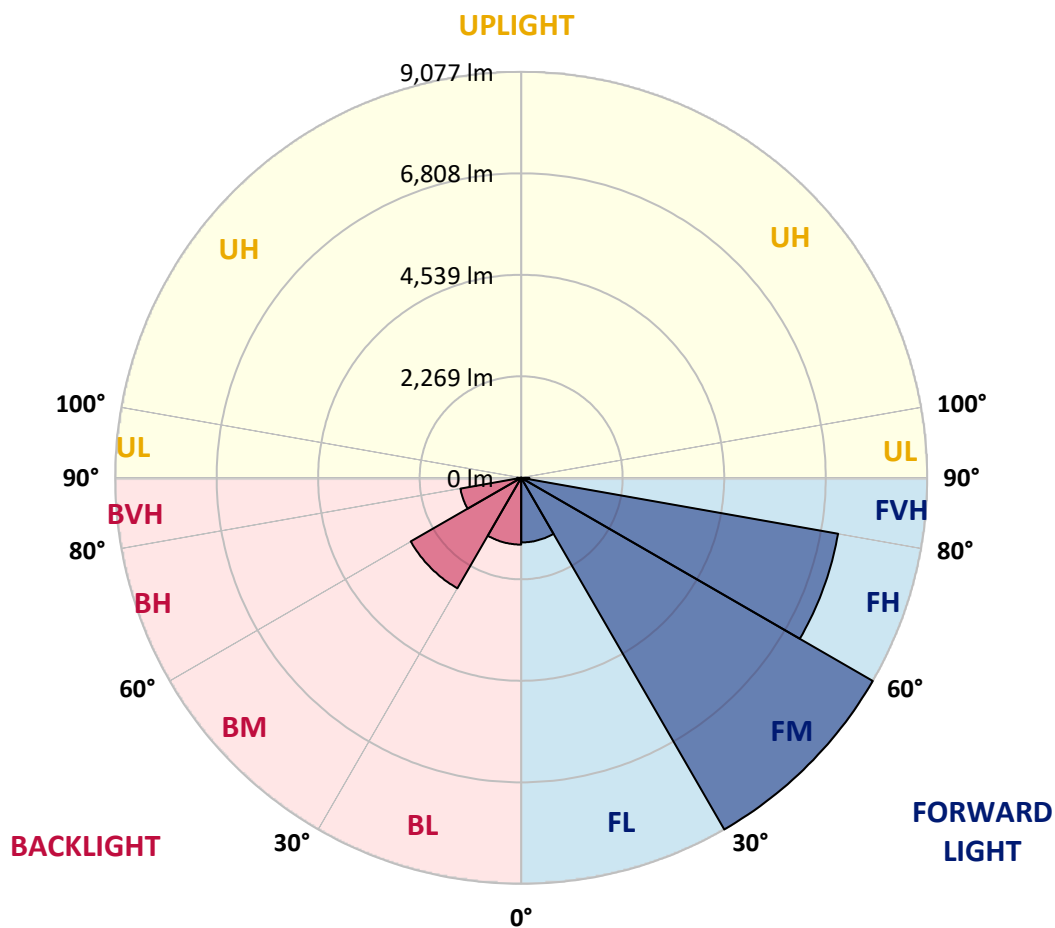
CATALOG NUMBER: ARCH4-140-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.6	6.1			
FM	(30°-60°)	9077.0	38.3			
FH	(60°-80°)	7194.6	30.3			G3/7500
FVH	(80°-90°)	182.1	0.8			G2/225
BL	(0°-30°)	1493.6	6.3	B3/2500		
BM	(30°-60°)	2851.6	12.0	B3/5000		
BH	(60°-80°)	1379.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	88.6	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: P1211019

CATALOG NUMBER: ARCH4-140-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2
2.5°	2645.0	2638.8	2654.1	2669.4	2703.1	2742.8	2797.8	2843.7	2849.8	2935.4	3002.7
5°	2489.0	2479.8	2495.1	2513.5	2528.8	2577.7	2635.8	2703.1	2730.6	2855.9	2999.7
7.5°	2504.3	2501.2	2507.4	2501.2	2501.2	2522.6	2562.4	2629.7	2660.2	2810.1	3014.9
10°	2593.0	2599.1	2602.1	2583.8	2565.5	2556.3	2568.5	2614.4	2635.8	2813.1	3082.2
12.5°	2739.7	2748.9	2752.0	2718.3	2693.9	2654.1	2632.7	2651.1	2666.4	2843.7	3177.0
15°	2938.5	2944.6	2923.2	2901.8	2840.7	2791.7	2739.7	2724.5	2730.6	2907.9	3284.0
17.5°	3170.9	3161.7	3161.7	3109.7	3030.2	2953.8	2868.2	2855.9	2855.9	3011.9	3436.9
20°	3424.7	3433.9	3406.3	3336.0	3256.5	3137.3	3051.6	2996.6	3002.7	3131.1	3623.4
22.5°	3791.6	3806.9	3733.5	3632.6	3510.3	3372.7	3250.4	3161.7	3164.8	3287.1	3816.1
25°	4186.1	4192.2	4146.3	4011.8	3846.7	3651.0	3488.9	3375.8	3372.7	3461.4	4063.8
27.5°	4589.7	4617.2	4525.5	4397.0	4244.2	3999.5	3785.5	3632.6	3608.1	3727.4	4372.6
30°	5005.5	5039.2	4950.5	4825.1	4635.6	4427.6	4173.8	3996.5	3981.2	4140.2	4785.4
32.5°	5424.5	5433.6	5363.3	5259.3	5088.1	4892.4	4687.5	4491.8	4476.6	4736.5	5320.5
35°	5766.9	5794.4	5745.5	5721.1	5595.7	5415.3	5216.5	5103.4	5143.1	5476.4	6014.6
37.5°	6179.7	6207.2	6152.2	6146.1	6106.3	5950.4	5812.8	5822.0	5861.7	6314.3	6745.4
40°	6776.0	6806.6	6665.9	6604.7	6604.7	6451.9	6406.0	6623.1	6675.1	7139.9	7506.8
42.5°	7280.5	7329.4	7246.9	7207.1	7087.9	6980.8	7035.9	7341.7	7430.3	7928.8	8170.3
45°	7525.1	7561.8	7659.7	7775.9	7659.7	7473.1	7681.1	8026.6	8152.0	8656.5	8833.8
47.5°	7656.6	7690.2	7803.4	8115.3	8194.8	8038.8	8332.4	8763.5	8849.1	9378.1	9466.8
50°	7675.0	7782.0	7928.8	8240.6	8604.5	8625.9	8986.7	9512.7	9613.6	10087.5	10023.3
52.5°	7525.1	7567.9	7870.7	8396.6	8800.2	9167.1	9699.2	10231.2	10304.6	10754.1	10515.6
55°	7280.5	7341.7	7644.4	8359.9	8989.8	9680.8	10423.9	10937.6	11020.1	11402.4	10971.2
57.5°	7060.4	7090.9	7415.1	8252.9	9179.4	10194.5	11069.1	11674.5	11729.5	11971.1	11307.6
60°	6815.7	6849.4	7173.5	8023.5	9320.0	10582.9	11741.8	12417.5	12466.5	12570.4	11699.0
62.5°	6182.8	6271.5	6678.1	7644.4	9283.3	11026.3	12460.3	13151.4	13212.6	13099.4	12007.8
65°	5020.8	5146.2	5644.6	6785.2	8940.9	11313.7	13047.4	13827.2	13931.1	13496.9	12090.4
67.5°	3898.6	3987.3	4387.9	5384.7	7739.2	11170.0	13426.6	14291.9	14322.5	13432.7	11631.7
68°	3696.8	3785.5	4167.7	5091.2	7405.9	10998.7	13417.4	14304.2	14371.4	13362.4	11454.3
70°	2828.4	2929.3	3293.2	4033.2	5968.7	9910.2	12857.9	14010.6	14001.5	12512.3	10353.6
72.5°	1767.4	1825.5	2076.2	2544.1	3947.6	7540.4	10913.1	12356.4	12380.8	10200.7	7941.0
75°	1122.2	1122.2	1110.0	1232.3	2024.2	4296.1	8112.2	9512.7	9531.0	7142.9	5005.5
77.5°	975.4	947.9	816.4	691.1	807.2	1669.5	4800.7	6143.0	6042.1	3846.7	2375.9
80°	822.5	776.7	669.6	556.5	519.8	522.9	1843.8	3118.9	2984.4	1385.2	788.9
82.5°	593.2	553.5	504.5	437.3	400.6	311.9	385.3	902.0	880.6	400.6	256.9
85°	321.1	290.5	284.4	287.4	241.6	192.6	162.1	198.8	198.8	174.3	146.8
87.5°	113.1	82.6	97.8	110.1	94.8	79.5	64.2	76.4	79.5	76.4	70.3
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: P1211019

CATALOG NUMBER: ARCH4-140-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2
2.5°	3042.5	3073.0	3146.4	3210.6	3256.5	3296.3	3317.7	3326.8	3348.2	3351.3	3345.2
5°	3066.9	3146.4	3256.5	3351.3	3403.3	3424.7	3430.8	3433.9	3424.7	3430.8	3424.7
7.5°	3131.1	3232.0	3388.0	3470.5	3479.7	3446.1	3449.1	3436.9	3449.1	3461.4	3461.4
10°	3229.0	3357.4	3504.2	3534.8	3495.0	3476.7	3513.4	3586.7	3611.2	3644.8	3644.8
12.5°	3357.4	3510.3	3614.3	3586.7	3550.1	3611.2	3718.2	3791.6	3816.1	3828.3	3819.1
15°	3504.2	3669.3	3721.3	3629.6	3696.8	3828.3	3865.0	3822.2	3761.0	3733.5	3748.8
17.5°	3690.7	3828.3	3797.7	3736.6	3889.5	3907.8	3788.6	3651.0	3553.1	3516.4	3540.9
20°	3886.4	4005.7	3865.0	3892.5	3987.3	3791.6	3565.3	3388.0	3302.4	3287.1	3311.5
22.5°	4094.3	4170.8	3932.3	4072.9	3932.3	3534.8	3262.6	3170.9	3149.5	3173.9	3195.4
25°	4329.8	4320.6	4048.5	4128.0	3727.4	3219.8	3057.8	3051.6	3051.6	3066.9	3097.5
27.5°	4595.8	4452.1	4164.7	4054.6	3372.7	2959.9	2929.3	2932.4	2923.2	2926.3	2941.6
30°	4904.6	4629.4	4293.1	3813.0	2975.2	2764.2	2752.0	2742.8	2721.4	2715.3	2721.4
32.5°	5293.0	4816.0	4424.6	3415.5	2626.6	2562.4	2556.3	2507.4	2455.4	2449.3	2470.7
35°	5785.3	5155.4	4491.8	2917.1	2339.2	2336.1	2314.7	2238.3	2171.0	2171.0	2155.7
37.5°	6347.9	5592.6	4519.4	2430.9	2100.7	2116.0	2054.8	1957.0	1905.0	1874.4	1883.6
40°	6922.8	6091.0	4516.3	2005.9	1892.7	1895.8	1849.9	1730.7	1602.3	1525.8	1544.2
42.5°	7476.2	6543.6	4436.8	1779.6	1724.6	1715.4	1678.7	1516.6	1409.6	1348.5	1351.5
45°	7919.6	7011.4	4314.5	1645.1	1571.7	1587.0	1504.4	1406.6	1308.7	1253.7	1250.6
47.5°	8363.0	7366.1	4118.8	1562.5	1458.5	1431.0	1397.4	1330.1	1256.7	1195.6	1198.6
50°	8766.6	7668.8	3935.3	1507.5	1354.6	1284.3	1290.4	1250.6	1186.4	1131.4	1128.3
52.5°	9050.9	7867.6	3834.4	1476.9	1229.2	1152.8	1174.2	1152.8	1091.6	1051.9	1048.8
55°	9335.3	8020.5	3868.1	1437.1	1091.6	1030.5	1067.2	1061.0	1027.4	1015.2	1018.2
57.5°	9564.7	8136.7	3987.3	1363.8	960.1	923.4	984.6	966.2	941.8	944.8	944.8
60°	9787.9	8286.5	4128.0	1195.6	847.0	850.1	908.2	874.5	859.2	886.7	889.8
62.5°	10020.3	8448.6	4011.8	951.0	749.1	770.6	837.8	810.3	816.4	856.2	868.4
65°	9992.7	8433.3	3268.7	779.7	663.5	706.3	807.2	798.1	801.1	816.4	822.5
67.5°	9430.1	7895.1	2247.4	663.5	602.4	654.4	782.8	746.1	749.1	740.0	743.0
68°	9240.5	7705.5	1981.4	645.2	590.1	642.1	770.6	736.9	740.0	730.8	727.7
70°	8207.0	6598.6	1253.7	568.7	547.3	608.5	709.4	697.2	694.1	688.0	688.0
72.5°	6256.2	4871.0	660.5	492.3	498.4	556.5	633.0	657.4	642.1	645.2	663.5
75°	4143.3	2929.3	458.7	422.0	437.3	477.0	562.6	611.6	596.3	605.4	596.3
77.5°	2192.4	1577.8	366.9	357.8	357.8	385.3	464.8	541.2	541.2	535.1	525.9
80°	718.6	556.5	293.5	281.3	287.4	302.7	373.0	443.4	452.5	440.3	434.2
82.5°	241.6	256.9	220.2	204.9	211.0	223.2	281.3	339.4	342.5	318.0	311.9
85°	149.8	171.2	137.6	134.5	134.5	137.6	171.2	186.5	171.2	152.9	159.0
87.5°	70.3	85.6	64.2	55.0	45.9	39.8	30.6	12.2	12.2	6.1	6.1
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)