

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: P1211095

Luminaire Tested: **ARCH4-170-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211095
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: ARCH4-170-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23076 lumens
Efficiency: N/A
Efficacy: 135.9 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): 169.8
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

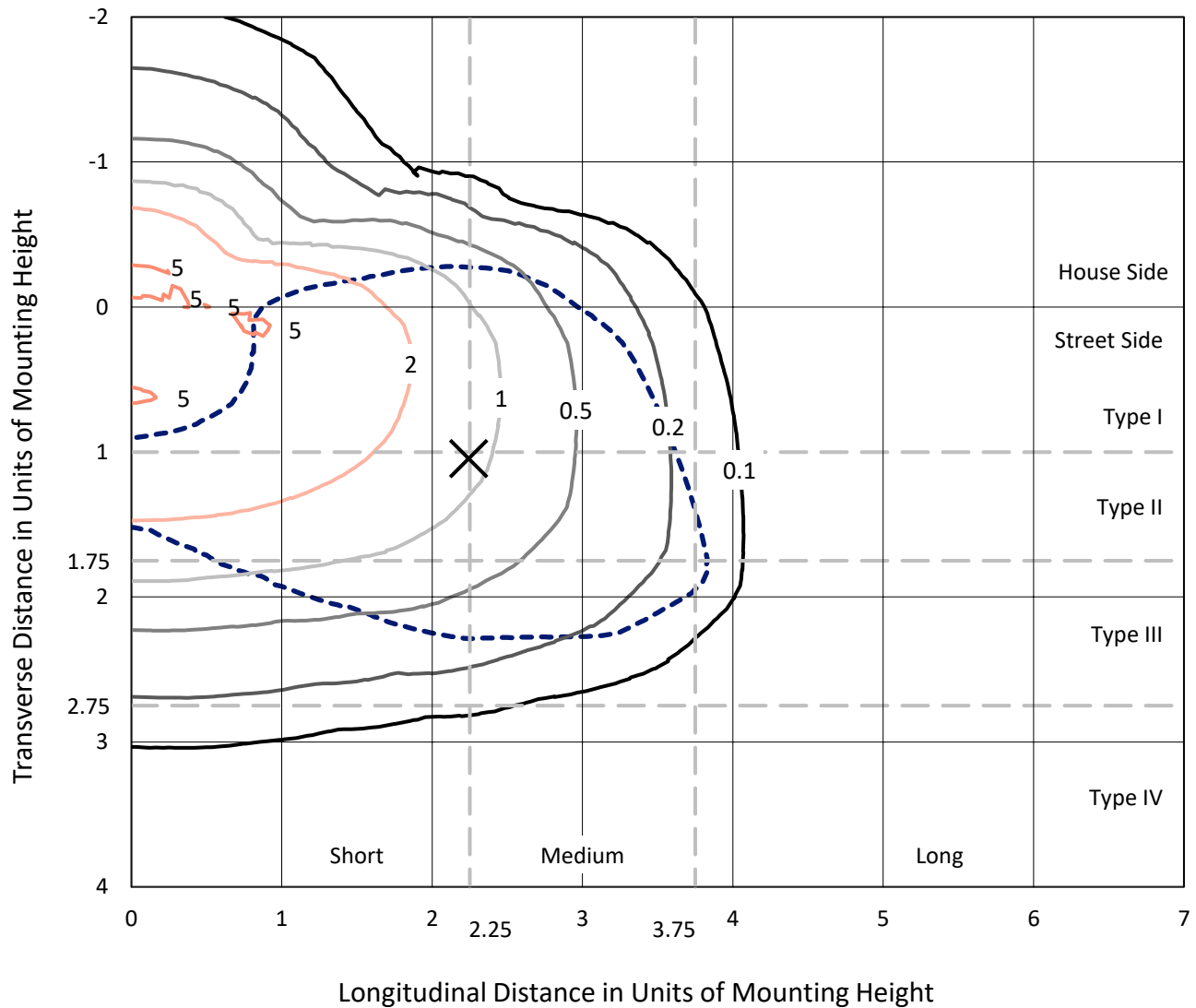


REPORT NUMBER: P1211095

CATALOG NUMBER: ARCH4-170-722-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

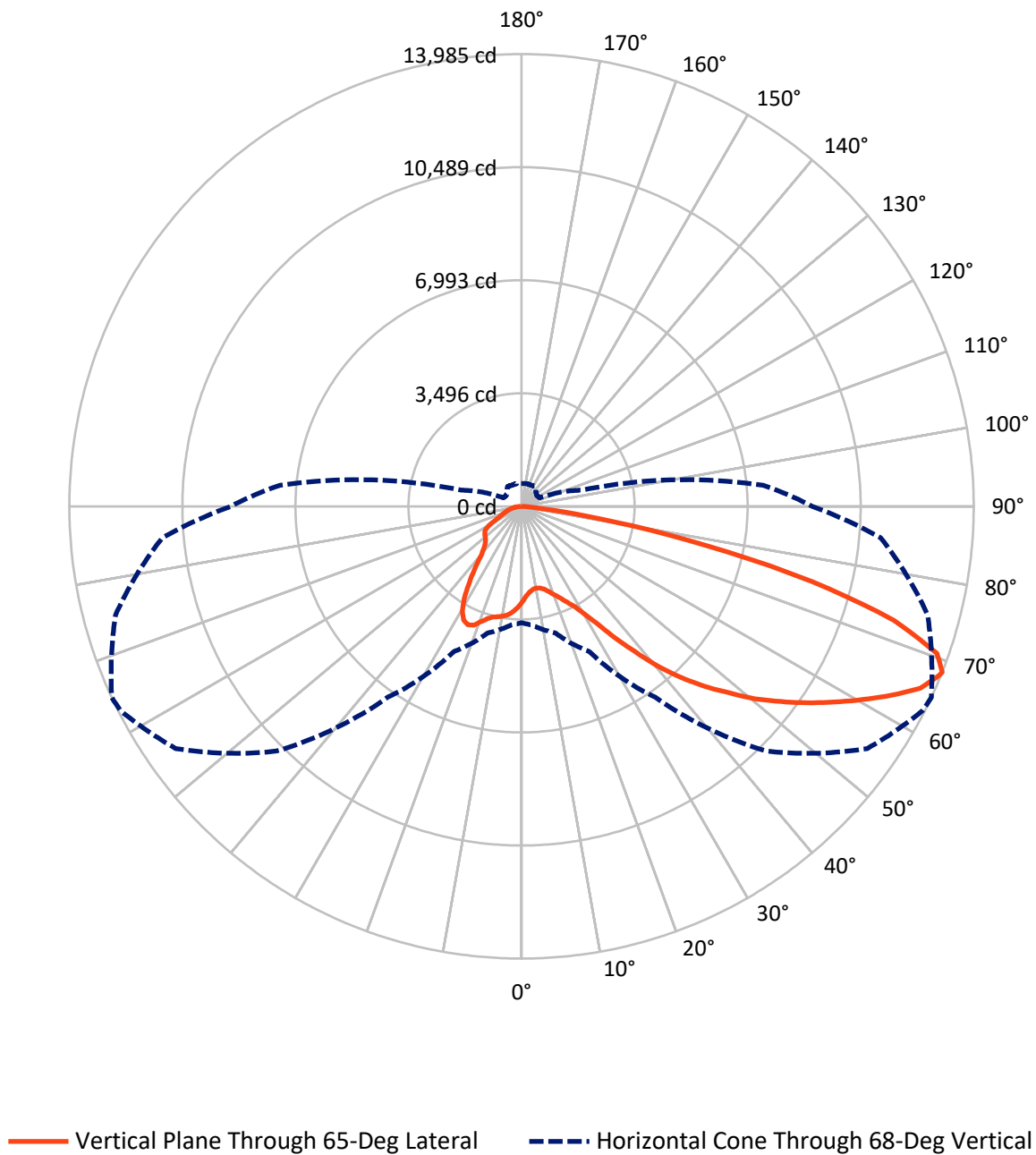


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

REPORT NUMBER: P1211095

CATALOG NUMBER: ARCH4-170-722-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211095

CATALOG NUMBER: ARCH4-170-722-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5657.6	0.0	5657.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	17418.4	0.0	17418.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	23076.0	0.0	23076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.2
10°-20°	917.6	4.0
20°-30°	1660.8	7.2
30°-40°	2612.6	11.3
40°-50°	3891.2	16.9
50°-60°	5104.4	22.1
60°-70°	5582.0	24.2
70°-80°	2762.1	12.0
80°-90°	263.5	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°	23076.0	100.0
0°-180°	23076.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211095

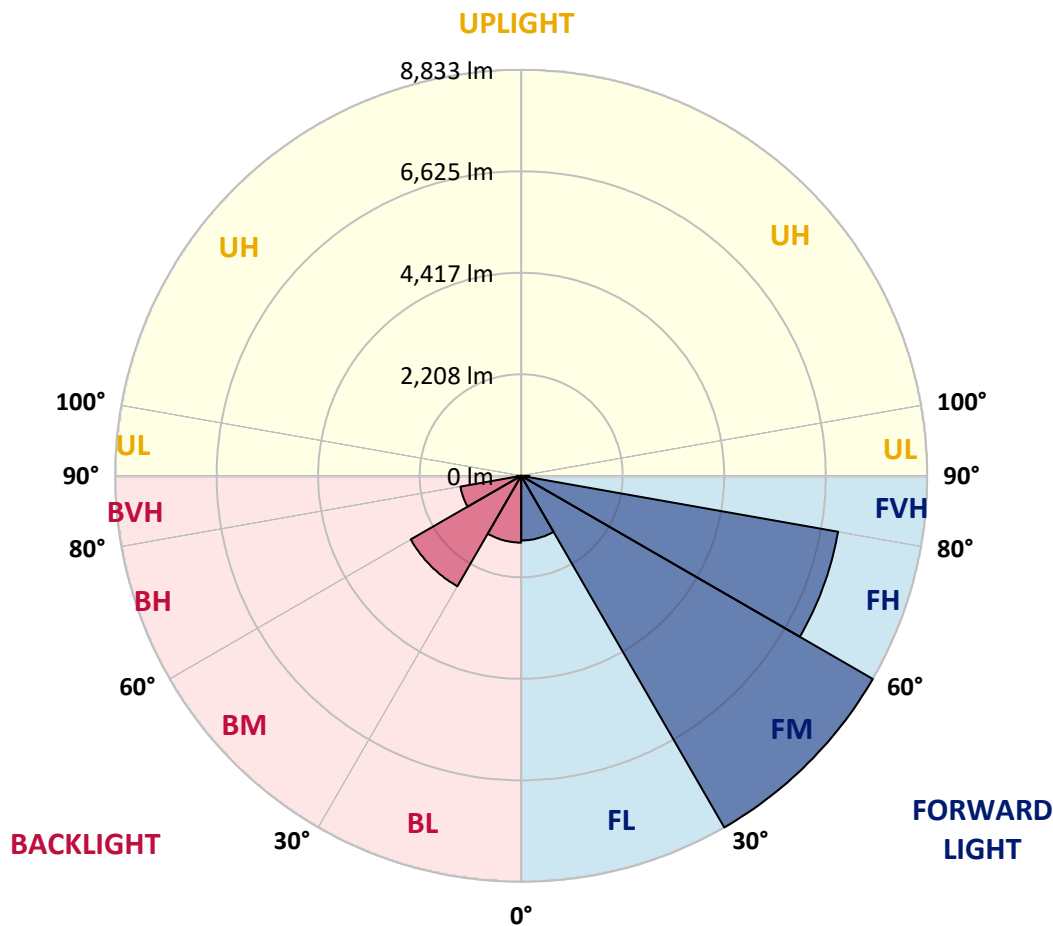
CATALOG NUMBER: ARCH4-170-722-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1406.7	6.1			
FM	(30°-60°)	8833.2	38.3			
FH	(60°-80°)	7001.3	30.3			G3/7500
FVH	(80°-90°)	177.2	0.8			G2/225
BL	(0°-30°)	1453.5	6.3	B3/2500		
BM	(30°-60°)	2775.0	12.0	B3/5000		
BH	(60°-80°)	1342.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	86.3	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: P1211095

CATALOG NUMBER: ARCH4-170-722-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8
2.5°	2573.9	2568.0	2582.8	2597.7	2630.4	2669.1	2722.7	2767.3	2773.3	2856.6	2922.1
5°	2422.1	2413.2	2428.1	2446.0	2460.8	2508.4	2565.0	2630.4	2657.2	2779.2	2919.1
7.5°	2437.0	2434.1	2440.0	2434.1	2434.1	2454.9	2493.6	2559.0	2588.8	2734.6	2934.0
10°	2523.3	2529.3	2532.2	2514.4	2496.5	2487.6	2499.5	2544.1	2565.0	2737.6	2999.4
12.5°	2666.1	2675.1	2678.1	2645.3	2621.5	2582.8	2562.0	2579.9	2594.7	2767.3	3091.7
15°	2859.6	2865.5	2844.7	2823.9	2764.3	2716.7	2666.1	2651.3	2657.2	2829.8	3195.8
17.5°	3085.7	3076.8	3076.8	3026.2	2948.8	2874.4	2791.1	2779.2	2779.2	2931.0	3344.6
20°	3332.7	3341.6	3314.8	3246.4	3169.0	3053.0	2969.7	2916.1	2922.1	3047.0	3526.1
22.5°	3689.8	3704.6	3633.2	3535.0	3416.0	3282.1	3163.1	3076.8	3079.8	3198.8	3713.6
25°	4073.6	4079.6	4034.9	3904.0	3743.3	3552.9	3395.2	3285.1	3282.1	3368.4	3954.6
27.5°	4466.4	4493.2	4403.9	4278.9	4130.2	3892.1	3683.8	3535.0	3511.2	3627.3	4255.1
30°	4871.1	4903.8	4817.5	4695.5	4511.0	4308.7	4061.7	3889.1	3874.2	4029.0	4656.8
32.5°	5278.7	5287.7	5219.2	5118.1	4951.4	4761.0	4561.6	4371.2	4356.3	4609.2	5177.6
35°	5612.0	5638.8	5591.2	5567.4	5445.4	5269.8	5076.4	4966.3	5005.0	5329.3	5853.0
37.5°	6013.7	6040.5	5986.9	5981.0	5942.3	5790.5	5656.6	5665.6	5704.2	6144.6	6564.2
40°	6594.0	6623.7	6486.8	6427.3	6427.3	6278.5	6233.9	6445.2	6495.8	6948.1	7305.1
42.5°	7084.9	7132.5	7052.2	7013.5	6897.5	6793.3	6846.9	7144.4	7230.7	7715.8	7950.8
45°	7323.0	7358.7	7453.9	7567.0	7453.9	7272.4	7474.7	7811.0	7933.0	8424.0	8596.5
47.5°	7450.9	7483.7	7593.8	7897.3	7974.6	7822.9	8108.5	8528.1	8611.4	9126.2	9212.5
50°	7468.8	7572.9	7715.8	8019.3	8373.4	8394.2	8745.3	9257.1	9355.3	9816.5	9754.1
52.5°	7323.0	7364.6	7659.2	8171.0	8563.8	8920.9	9438.6	9956.4	10027.8	10465.2	10233.1
55°	7084.9	7144.4	7439.0	8135.3	8748.3	9420.8	10143.9	10643.8	10724.1	11096.1	10676.5
57.5°	6870.7	6900.4	7215.9	8031.2	8932.8	9920.7	10771.7	11360.9	11414.5	11649.5	11003.8
60°	6632.6	6665.4	6980.8	7808.0	9069.7	10298.6	11426.4	12084.0	12131.6	12232.7	11384.7
62.5°	6016.7	6103.0	6498.7	7439.0	9034.0	10730.1	12125.6	12798.1	12857.6	12747.5	11685.2
65°	4886.0	5008.0	5493.0	6602.9	8700.7	11009.8	12696.9	13455.7	13556.9	13134.4	11765.6
67.5°	3793.9	3880.2	4270.0	5240.1	7531.3	10869.9	13065.9	13908.0	13937.8	13071.9	11319.2
68°	3597.5	3683.8	4055.8	4954.4	7206.9	10703.3	13057.0	13919.9	13985.4	13003.4	11146.6
70°	2752.4	2850.6	3204.7	3924.8	5808.4	9644.0	12512.5	13634.3	13625.3	12176.2	10075.4
72.5°	1719.9	1776.4	2020.4	2475.7	3841.5	7337.9	10620.0	12024.5	12048.3	9926.6	7727.7
75°	1092.0	1092.0	1080.1	1199.2	1969.9	4180.7	7894.3	9257.1	9275.0	6951.0	4871.1
77.5°	949.2	922.4	794.5	672.5	785.6	1624.7	4671.7	5978.0	5879.8	3743.3	2312.1
80°	800.4	755.8	651.7	541.6	505.9	508.8	1794.3	3035.1	2904.2	1348.0	767.7
82.5°	577.3	538.6	491.0	425.5	389.8	303.5	374.9	877.8	857.0	389.8	250.0
85°	312.4	282.7	276.7	279.7	235.1	187.5	157.7	193.4	193.4	169.6	142.8
87.5°	110.1	80.3	95.2	107.1	92.2	77.4	62.5	74.4	77.4	74.4	68.4
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: P1211095

CATALOG NUMBER: ARCH4-170-722-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8	2948.8
2.5°	2960.7	2990.5	3061.9	3124.4	3169.0	3207.7	3228.5	3237.5	3258.3	3261.3	3255.3
5°	2984.5	3061.9	3169.0	3261.3	3311.9	3332.7	3338.6	3341.6	3332.7	3338.6	3332.7
7.5°	3047.0	3145.2	3297.0	3377.3	3386.2	3353.5	3356.5	3344.6	3356.5	3368.4	3368.4
10°	3142.2	3267.2	3410.1	3439.8	3401.1	3383.3	3419.0	3490.4	3514.2	3546.9	3546.9
12.5°	3267.2	3416.0	3517.2	3490.4	3454.7	3514.2	3618.3	3689.8	3713.6	3725.5	3716.5
15°	3410.1	3570.7	3621.3	3532.1	3597.5	3725.5	3761.2	3719.5	3660.0	3633.2	3648.1
17.5°	3591.6	3725.5	3695.7	3636.2	3785.0	3802.8	3686.8	3552.9	3457.7	3422.0	3445.8
20°	3782.0	3898.1	3761.2	3788.0	3880.2	3689.8	3469.6	3297.0	3213.7	3198.8	3222.6
22.5°	3984.3	4058.7	3826.6	3963.5	3826.6	3439.8	3175.0	3085.7	3064.9	3088.7	3109.5
25°	4213.5	4204.5	3939.7	4017.1	3627.3	3133.3	2975.6	2969.7	2969.7	2984.5	3014.3
27.5°	4472.3	4332.5	4052.8	3945.7	3282.1	2880.4	2850.6	2853.6	2844.7	2847.7	2862.5
30°	4772.9	4505.1	4177.8	3710.6	2895.3	2690.0	2678.1	2669.1	2648.3	2642.3	2648.3
32.5°	5150.8	4686.6	4305.7	3323.8	2556.1	2493.6	2487.6	2440.0	2389.4	2383.5	2404.3
35°	5629.9	5016.9	4371.2	2838.7	2276.3	2273.4	2252.5	2178.1	2112.7	2112.7	2097.8
37.5°	6177.4	5442.4	4398.0	2365.6	2044.2	2059.1	1999.6	1904.4	1853.8	1824.1	1833.0
40°	6736.8	5927.4	4395.0	1952.0	1841.9	1844.9	1800.2	1684.2	1559.2	1484.8	1502.7
42.5°	7275.4	6367.8	4317.6	1731.8	1678.2	1669.3	1633.6	1475.9	1371.8	1312.2	1315.2
45°	7706.8	6823.1	4198.6	1600.9	1529.5	1544.3	1464.0	1368.8	1273.6	1220.0	1217.0
47.5°	8138.3	7168.3	4008.2	1520.5	1419.4	1392.6	1359.9	1294.4	1223.0	1163.5	1166.4
50°	8531.1	7462.8	3829.6	1467.0	1318.2	1249.8	1255.7	1217.0	1154.5	1101.0	1098.0
52.5°	8807.8	7656.3	3731.4	1437.2	1196.2	1121.8	1142.6	1121.8	1062.3	1023.6	1020.6
55°	9084.5	7805.0	3764.2	1398.5	1062.3	1002.8	1038.5	1032.5	999.8	987.9	990.9
57.5°	9307.7	7918.1	3880.2	1327.1	934.3	898.6	958.1	940.3	916.5	919.5	919.5
60°	9524.9	8063.9	4017.1	1163.5	824.2	827.2	883.8	851.0	836.1	862.9	865.9
62.5°	9751.1	8221.6	3904.0	925.4	729.0	749.9	815.3	788.5	794.5	833.2	845.1
65°	9724.3	8206.7	3180.9	758.8	645.7	687.4	785.6	776.6	779.6	794.5	800.4
67.5°	9176.8	7683.0	2187.1	645.7	586.2	636.8	761.8	726.0	729.0	720.1	723.1
68°	8992.3	7498.5	1928.2	627.9	574.3	624.9	749.9	717.1	720.1	711.2	708.2
70°	7986.5	6421.4	1220.0	553.5	532.6	592.1	690.3	678.4	675.5	669.5	669.5
72.5°	6088.1	4740.2	642.7	479.1	485.0	541.6	616.0	639.8	624.9	627.9	645.7
75°	4032.0	2850.6	446.3	410.6	425.5	464.2	547.5	595.1	580.2	589.2	580.2
77.5°	2133.5	1535.4	357.1	348.1	348.1	374.9	452.3	526.7	526.7	520.7	511.8
80°	699.3	541.6	285.7	273.8	279.7	294.6	363.0	431.5	440.4	428.5	422.5
82.5°	235.1	250.0	214.2	199.4	205.3	217.2	273.8	330.3	333.3	309.5	303.5
85°	145.8	166.6	133.9	130.9	130.9	133.9	166.6	181.5	166.6	148.8	154.7
87.5°	68.4	83.3	62.5	53.6	44.6	38.7	29.8	11.9	11.9	6.0	6.0
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)