

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: P835897

Luminaire Tested: **ARCH3-110-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17018 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 111.9
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

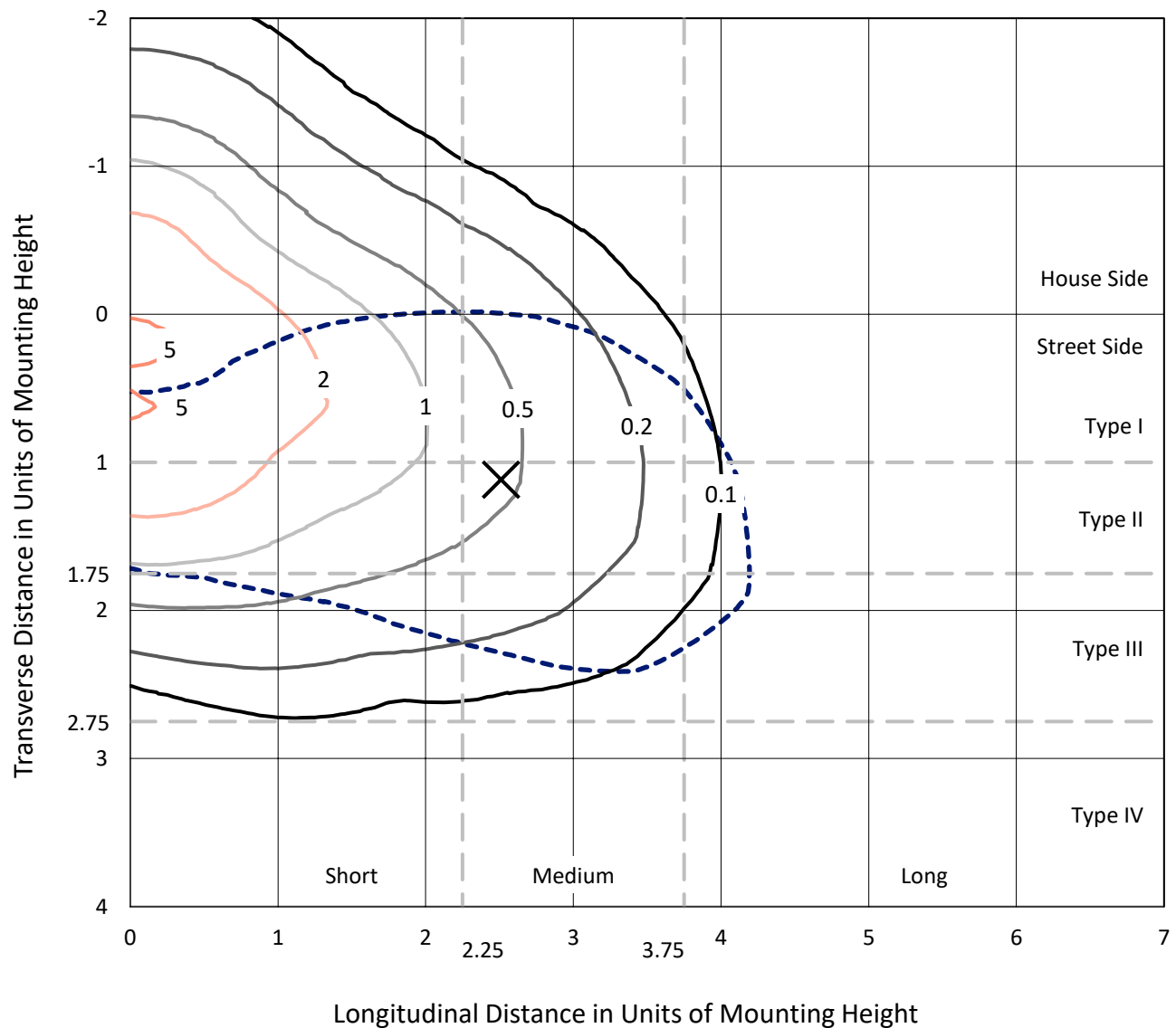


REPORT NUMBER: P835897

CATALOG NUMBER: ARCH3-110-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

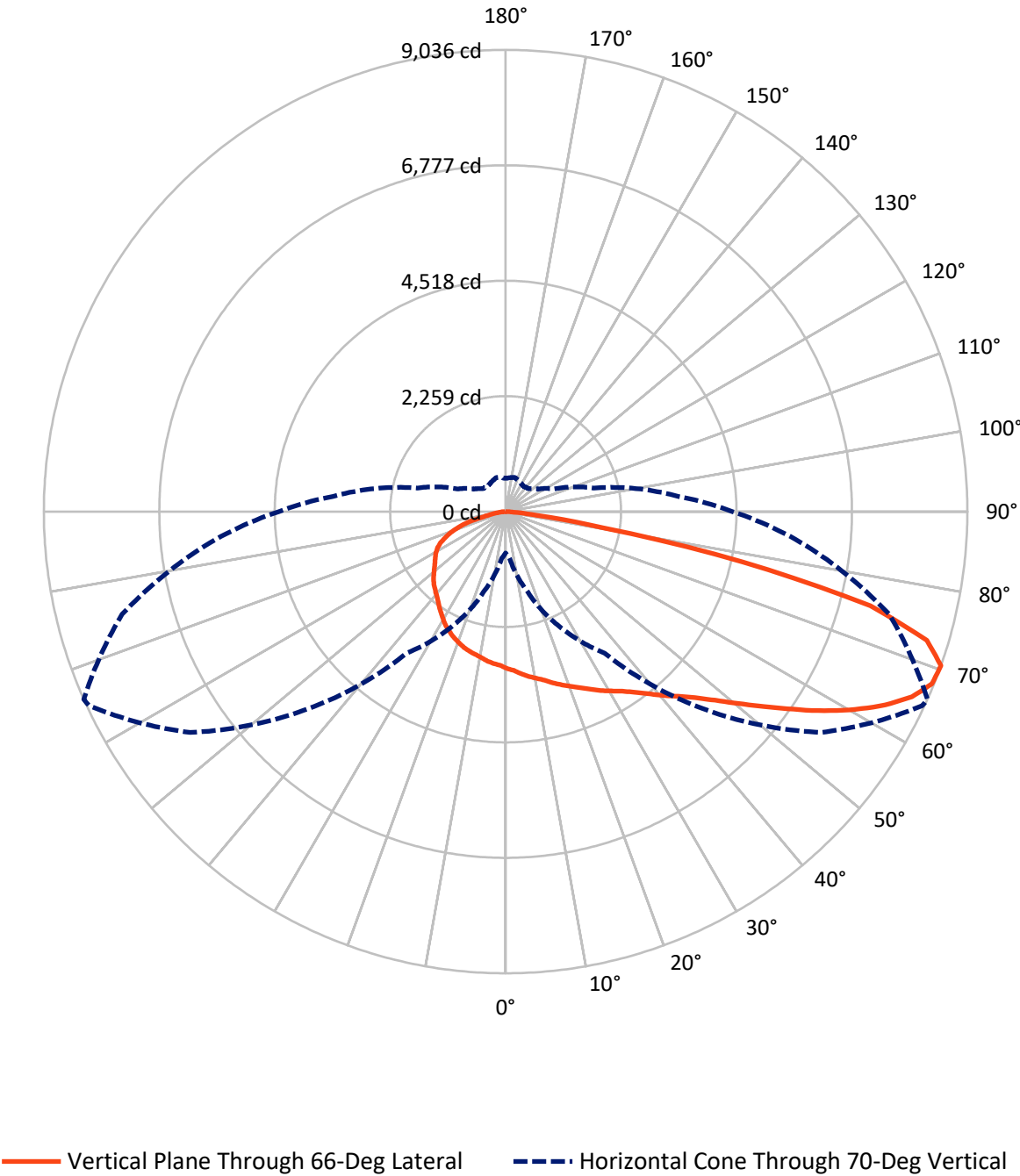
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P835897
CATALOG NUMBER: ARCH3-110-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P835897

CATALOG NUMBER: ARCH3-110-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4509.4	0.0	4509.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	12508.6	0.0	12508.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	17018.0	0.0	17018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	1.7
10°-20°	885.3	5.2
20°-30°	1484.0	8.7
30°-40°	2222.1	13.1
40°-50°	2970.9	17.5
50°-60°	3468.6	20.4
60°-70°	3449.0	20.3
70°-80°	2041.9	12.0
80°-90°	201.2	1.2
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°	17018.0	100.0
0°-180°	17018.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835897

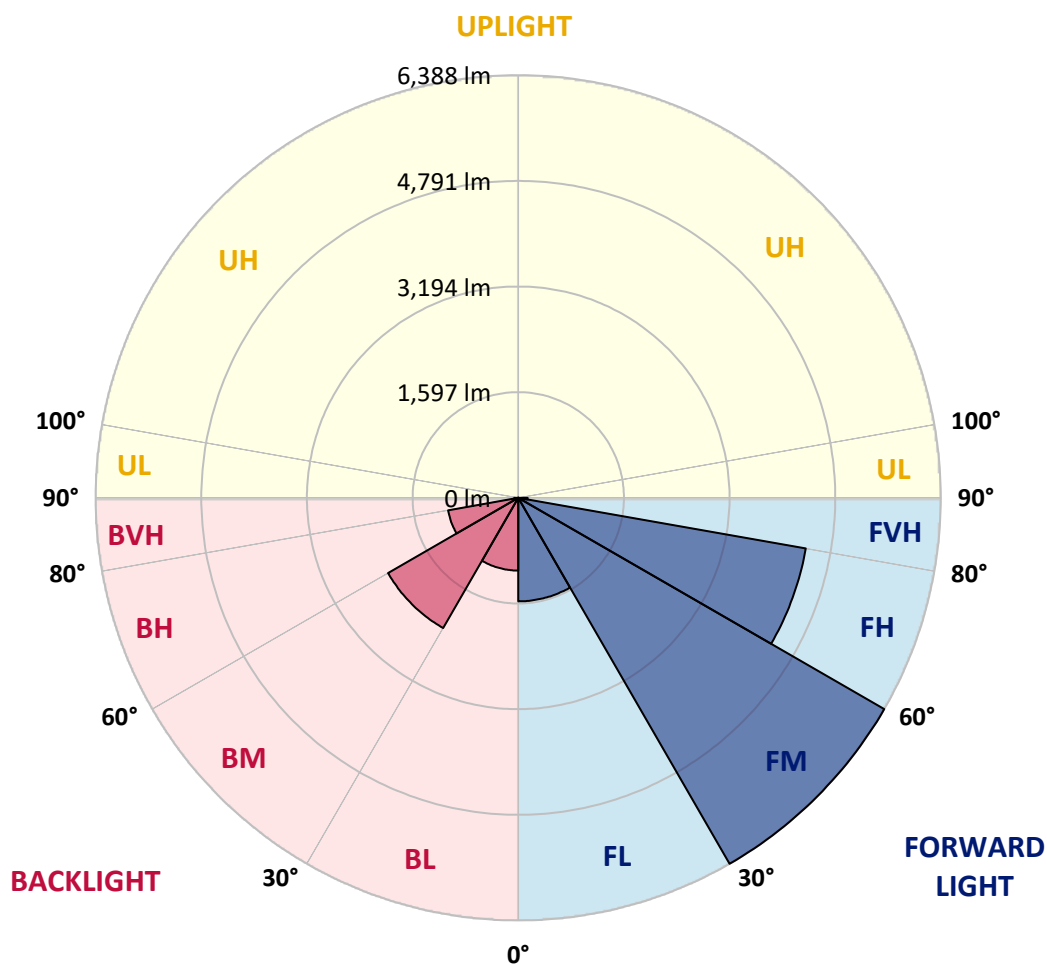
CATALOG NUMBER: ARCH3-110-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1565.2	9.2			
FM	(30°-60°)	6388.3	37.5			
FH	(60°-80°)	4413.7	25.9			G2/5000
FVH	(80°-90°)	141.4	0.8			G2/225
BL	(0°-30°)	1099.2	6.5	B3/2500		
BM	(30°-60°)	2273.2	13.4	B2/2500		
BH	(60°-80°)	1077.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	59.8	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 Medium



REPORT NUMBER: P835897

CATALOG NUMBER: ARCH3-110-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4
2.5°	3184.3	3179.3	3176.8	3166.7	3144.1	3154.2	3131.6	3116.5	3114.0	3078.9	3058.8
5°	3314.8	3312.3	3307.2	3292.2	3257.0	3262.1	3224.4	3196.8	3189.3	3134.1	3091.4
7.5°	3425.2	3420.2	3417.6	3397.6	3359.9	3357.4	3312.3	3272.1	3259.6	3184.3	3119.0
10°	3510.5	3503.0	3508.0	3487.9	3447.8	3440.2	3382.5	3329.8	3317.3	3221.9	3131.6
12.5°	3583.3	3578.2	3585.8	3568.2	3535.6	3528.1	3470.3	3402.6	3387.5	3277.1	3159.2
15°	3663.6	3646.0	3661.0	3653.5	3630.9	3628.4	3575.7	3500.4	3480.4	3347.4	3201.8
17.5°	3706.2	3696.2	3713.7	3716.2	3706.2	3723.8	3673.6	3583.3	3565.7	3412.6	3239.5
20°	3736.3	3721.3	3741.3	3756.4	3763.9	3799.1	3758.9	3671.1	3651.0	3475.4	3274.6
22.5°	3839.2	3806.6	3809.1	3819.1	3824.1	3874.3	3849.2	3763.9	3743.8	3553.1	3317.3
25°	4097.7	4032.4	3989.8	3959.6	3924.5	3967.2	3952.1	3869.3	3851.7	3646.0	3370.0
27.5°	4499.1	4416.3	4331.0	4243.2	4105.2	4087.6	4062.5	3987.2	3967.2	3738.8	3422.7
30°	4955.8	4873.0	4772.7	4632.1	4373.7	4238.2	4180.5	4097.7	4075.1	3821.6	3472.8
32.5°	5410.0	5337.2	5236.9	5066.2	4697.4	4421.4	4298.4	4213.1	4190.5	3912.0	3533.1
35°	5763.8	5718.7	5653.4	5440.1	5018.6	4637.2	4469.0	4366.2	4341.1	4055.0	3643.5
37.5°	6049.9	6017.3	5962.1	5738.7	5251.9	4853.0	4664.8	4546.8	4519.2	4210.6	3761.4
40°	6471.4	6386.1	6341.0	6017.3	5455.2	5048.7	4885.6	4762.6	4732.5	4376.2	3856.8
42.5°	6830.3	6767.5	6712.3	6265.7	5648.4	5216.8	5093.8	4980.9	4940.8	4539.3	3959.6
45°	6890.5	6915.6	6888.0	6388.6	5954.5	5382.4	5304.6	5231.9	5194.2	4760.1	4115.2
47.5°	6893.0	6893.0	6729.9	6458.9	6333.4	5568.1	5530.5	5555.6	5515.4	5041.1	4300.9
50°	6712.3	6745.0	6659.6	6476.5	6433.8	5753.8	5806.5	5942.0	5901.8	5339.8	4501.7
52.5°	6338.4	6446.3	6443.8	6448.9	6288.3	5911.9	6097.6	6406.2	6338.4	5676.0	4714.9
55°	5678.5	5894.3	6087.5	6253.1	6162.8	6007.2	6453.9	6900.5	6830.3	6052.4	4930.7
57.5°	5113.9	5251.9	5492.8	5962.1	6014.7	6090.0	6787.6	7417.4	7354.7	6468.9	5156.6
60°	4469.0	4659.7	4900.6	5568.1	5834.1	6197.9	7154.0	7921.8	7861.6	6890.5	5374.9
62.5°	3477.9	3723.8	4205.6	4963.4	5570.6	6265.7	7442.5	8365.9	8338.3	7289.5	5570.6
65°	2424.0	2642.3	3317.3	4220.6	5151.6	6235.6	7673.4	8762.4	8737.3	7615.7	5708.6
67.5°	1415.2	1668.7	2431.5	3397.6	4411.3	6027.3	7748.7	8995.8	8995.8	7813.9	5746.3
70°	808.0	925.9	1603.4	2476.7	3382.5	5452.7	7537.9	8993.3	9035.9	7768.7	5590.7
72.5°	564.6	617.3	1079.0	1666.2	2293.5	4411.3	6985.8	8559.2	8616.9	7342.2	5058.7
75°	439.1	476.8	760.3	1136.7	1445.3	2996.1	5778.9	7216.7	7369.8	6258.1	4090.1
77.5°	333.7	361.3	444.1	710.1	925.9	1721.4	3814.1	4732.5	4742.5	3831.7	2193.1
80°	243.4	271.0	296.1	434.1	491.8	805.5	1440.3	1977.3	1922.1	1854.4	1186.9
82.5°	145.5	173.1	180.7	235.9	240.9	343.8	504.4	637.4	612.3	815.5	557.1
85°	62.7	87.8	92.8	107.9	102.9	140.5	200.7	168.1	150.6	173.1	120.4
87.5°	15.1	25.1	25.1	27.6	22.6	35.1	37.6	27.6	25.1	30.1	30.1
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: P835897

CATALOG NUMBER: ARCH3-110-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4	3071.4
2.5°	3053.8	3046.3	3048.8	3006.1	2993.6	2981.0	2973.5	2968.5	2963.5	2971.0	2978.5
5°	3076.4	3058.8	3038.7	2976.0	2950.9	2923.3	2903.2	2885.7	2878.1	2878.1	2885.7
7.5°	3093.9	3063.8	3021.2	2938.4	2893.2	2855.6	2822.9	2800.4	2787.8	2787.8	2795.3
10°	3096.5	3053.8	2986.0	2885.7	2825.5	2770.2	2732.6	2707.5	2690.0	2690.0	2695.0
12.5°	3111.5	3053.8	2966.0	2845.5	2770.2	2702.5	2657.3	2619.7	2612.2	2612.2	2617.2
15°	3136.6	3066.3	2953.4	2810.4	2720.1	2642.3	2592.1	2551.9	2536.9	2546.9	2549.4
17.5°	3159.2	3073.9	2930.8	2765.2	2657.3	2572.0	2516.8	2481.7	2461.6	2484.2	2484.2
20°	3174.2	3073.9	2898.2	2707.5	2589.6	2494.2	2441.5	2398.9	2383.8	2411.4	2413.9
22.5°	3196.8	3071.4	2863.1	2649.8	2516.8	2416.4	2363.7	2331.1	2323.6	2353.7	2363.7
25°	3221.9	3076.4	2825.5	2584.6	2436.5	2338.7	2298.5	2283.4	2288.5	2326.1	2338.7
27.5°	3249.5	3086.4	2787.8	2511.8	2348.7	2260.9	2238.3	2245.8	2265.9	2313.6	2328.6
30°	3274.6	3088.9	2735.1	2426.5	2248.3	2165.5	2175.5	2208.2	2238.3	2286.0	2303.5
32.5°	3307.2	3091.4	2679.9	2333.6	2140.4	2080.2	2125.4	2178.1	2208.2	2253.3	2273.4
35°	3387.5	3134.1	2637.3	2243.3	2040.0	2007.4	2082.7	2150.5	2168.0	2208.2	2225.7
37.5°	3480.4	3204.4	2614.7	2150.5	1942.2	1934.7	2030.0	2097.8	2102.8	2127.9	2145.4
40°	3538.1	3234.5	2589.6	2072.7	1854.4	1859.4	1957.2	2009.9	1999.9	2017.5	2030.0
42.5°	3595.8	3244.5	2536.9	2007.4	1771.6	1776.6	1851.9	1889.5	1894.5	1932.1	1949.7
45°	3693.7	3272.1	2479.2	1947.2	1696.3	1678.7	1723.9	1774.1	1839.3	1912.1	1932.1
47.5°	3824.1	3329.8	2418.9	1874.4	1623.5	1565.8	1583.4	1671.2	1738.9	1806.7	1819.2
50°	3957.1	3387.5	2363.7	1786.6	1550.7	1445.3	1452.9	1533.2	1588.4	1641.1	1648.6
52.5°	4087.6	3437.7	2316.1	1703.8	1467.9	1302.3	1332.4	1415.2	1452.9	1478.0	1485.5
55°	4218.1	3480.4	2273.4	1633.5	1372.6	1189.4	1217.0	1294.8	1332.4	1345.0	1350.0
57.5°	4353.6	3530.6	2240.8	1573.3	1264.7	1089.0	1106.6	1161.8	1196.9	1212.0	1207.0
60°	4466.5	3573.2	2223.2	1510.6	1156.8	996.2	991.2	1041.4	1091.5	1106.6	1101.6
62.5°	4554.3	3600.8	2195.6	1430.3	1061.4	903.3	878.2	943.5	996.2	1006.2	1013.8
65°	4602.0	3603.3	2127.9	1327.4	963.6	803.0	785.4	850.6	883.3	893.3	893.3
67.5°	4594.5	3563.2	1994.9	1189.4	873.2	712.6	697.6	737.7	785.4	792.9	785.4
70°	4438.9	3397.6	1781.6	1043.9	765.3	632.3	604.7	644.9	690.1	662.5	649.9
72.5°	3997.3	2968.5	1467.9	883.3	644.9	532.0	519.4	559.6	562.1	567.1	554.6
75°	3154.2	2210.7	1099.1	687.5	521.9	446.7	444.1	436.6	446.7	466.7	451.7
77.5°	1656.1	1104.1	594.7	421.6	378.9	358.8	341.3	338.8	368.9	381.4	366.4
80°	898.3	619.8	341.3	253.4	230.9	233.4	255.9	250.9	283.5	291.1	278.5
82.5°	391.4	293.6	168.1	153.1	153.1	150.6	158.1	175.6	210.8	210.8	168.1
85°	85.3	72.8	65.2	75.3	85.3	85.3	85.3	85.3	60.2	32.6	22.6
87.5°	27.6	27.6	27.6	30.1	32.6	32.6	27.6	20.1	12.5	2.5	0.0
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)