

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: P836068

Luminaire Tested: **ARCH3-130-750-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836068
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: ARCH3-130-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20357 lumens
Efficiency: N/A
Efficacy: 153.5 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): 132.6
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

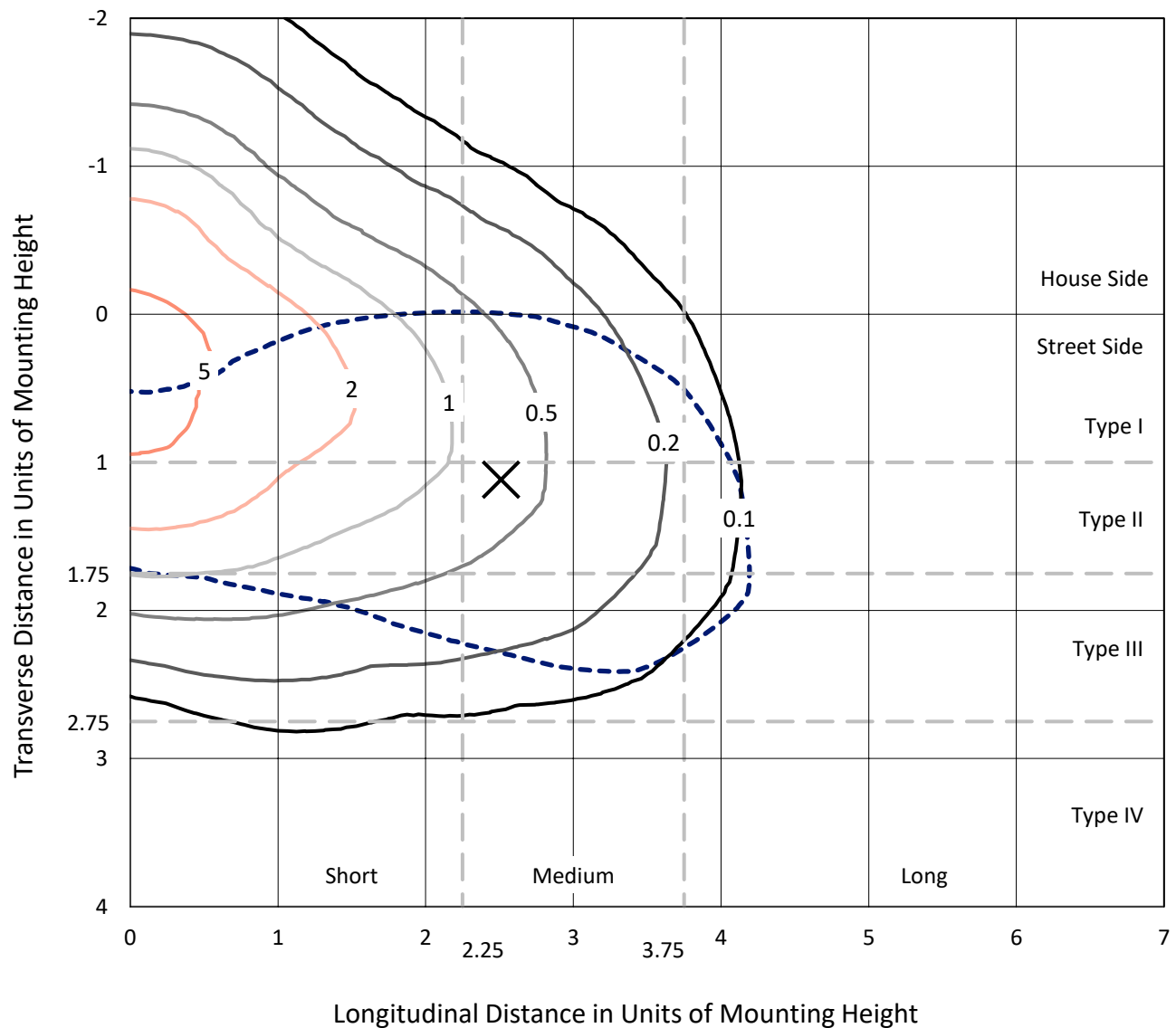


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Iso-Footcandle Lines of Horizontal Illumination

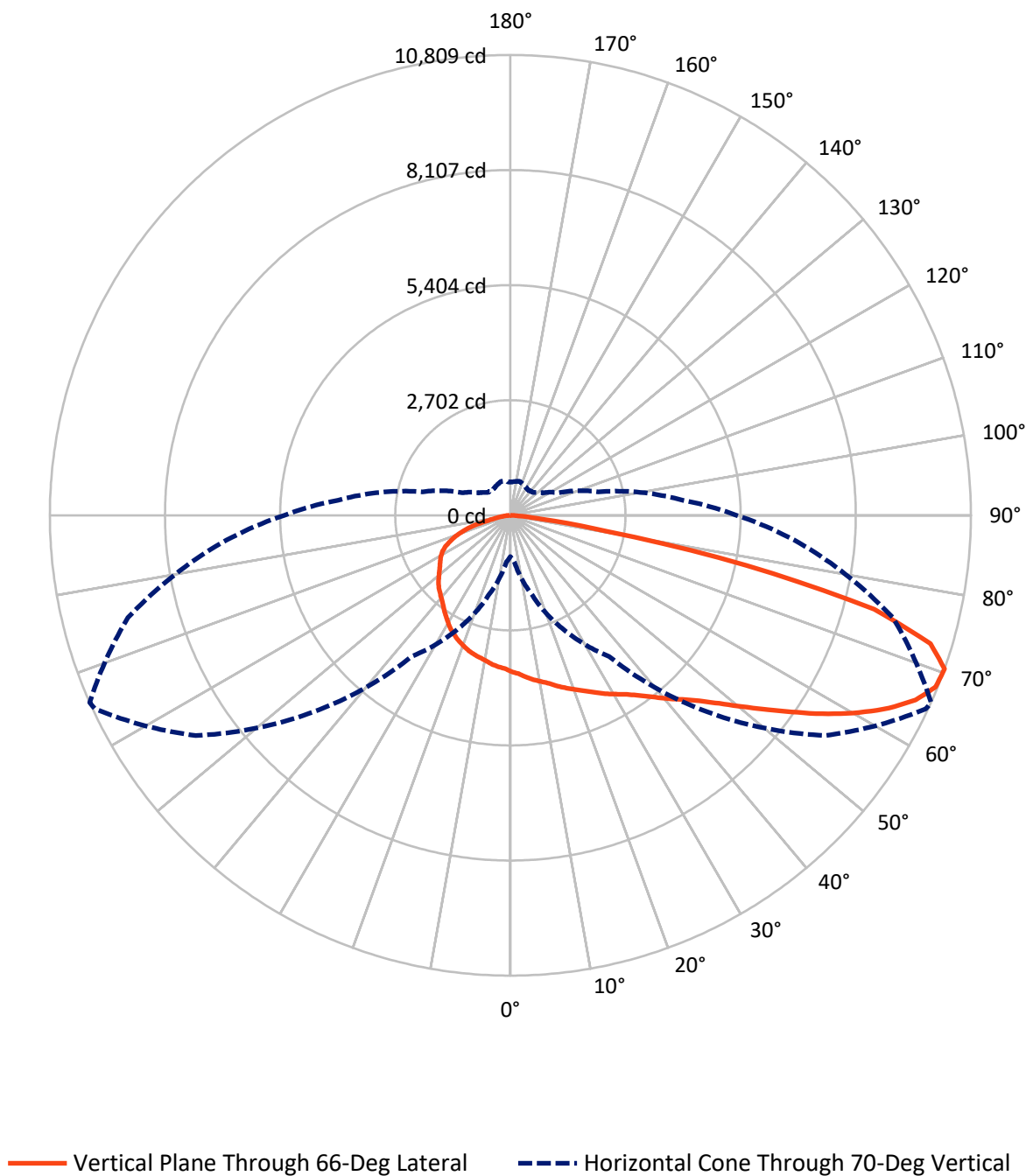
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5394.1	0.0	5394.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14962.9	0.0	14962.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	20357.0	0.0	20357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	1.7
10°-20°	1059.0	5.2
20°-30°	1775.2	8.7
30°-40°	2658.0	13.1
40°-50°	3553.8	17.5
50°-60°	4149.2	20.4
60°-70°	4125.7	20.3
70°-80°	2442.5	12.0
80°-90°	240.7	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°	20357.0	100.0
0°-180°	20357.0	100.0

Coefficient of Utilization



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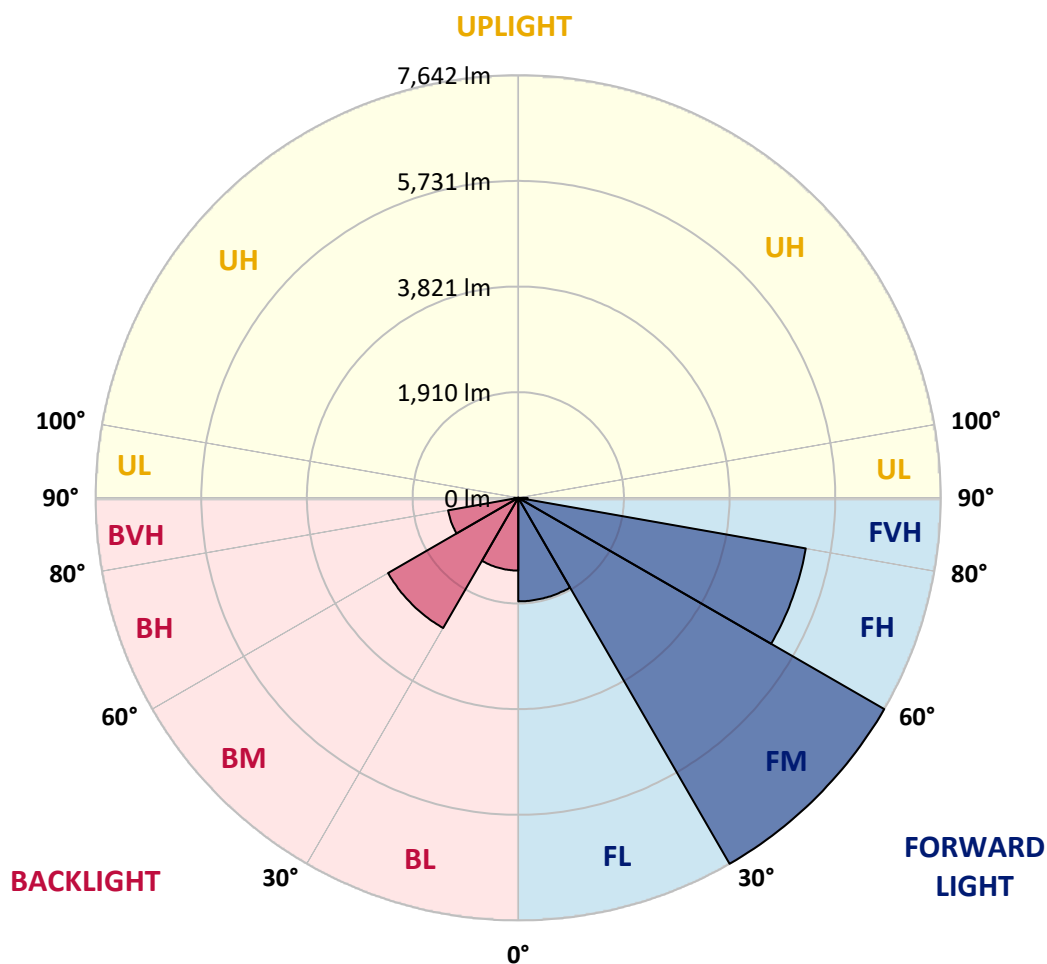
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1872.3	9.2			
FM	(30°-60°)	7641.7	37.5			
FH	(60°-80°)	5279.6	25.9			G3/7500
FVH	(80°-90°)	169.2	0.8			G2/225
BL	(0°-30°)	1314.9	6.5	B3/2500		
BM	(30°-60°)	2719.2	13.4	B3/5000		
BH	(60°-80°)	1288.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	71.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0
2.5°	3809.0	3803.0	3800.0	3788.0	3761.0	3773.0	3746.0	3728.0	3725.0	3683.0	3659.0
5°	3965.1	3962.1	3956.1	3938.1	3896.1	3902.1	3857.1	3824.1	3815.1	3749.0	3698.0
7.5°	4097.2	4091.2	4088.2	4064.2	4019.2	4016.2	3962.1	3914.1	3899.1	3809.0	3731.0
10°	4199.3	4190.3	4196.3	4172.2	4124.2	4115.2	4046.2	3983.1	3968.1	3854.1	3746.0
12.5°	4286.3	4280.3	4289.3	4268.3	4229.3	4220.3	4151.2	4070.2	4052.2	3920.1	3779.0
15°	4382.4	4361.3	4379.4	4370.3	4343.3	4340.3	4277.3	4187.3	4163.2	4004.2	3830.1
17.5°	4433.4	4421.4	4442.4	4445.4	4433.4	4454.4	4394.4	4286.3	4265.3	4082.2	3875.1
20°	4469.4	4451.4	4475.4	4493.4	4502.4	4544.4	4496.4	4391.4	4367.3	4157.2	3917.1
22.5°	4592.5	4553.4	4556.4	4568.5	4574.5	4634.5	4604.5	4502.4	4478.4	4250.3	3968.1
25°	4901.6	4823.6	4772.6	4736.5	4694.5	4745.6	4727.5	4628.5	4607.5	4361.3	4031.2
27.5°	5381.9	5282.8	5180.8	5075.7	4910.6	4889.6	4859.6	4769.6	4745.6	4472.4	4094.2
30°	5928.2	5829.1	5709.1	5541.0	5231.8	5069.7	5000.7	4901.6	4874.6	4571.5	4154.2
32.5°	6471.5	6384.4	6264.4	6060.3	5619.0	5288.8	5141.8	5039.7	5012.7	4679.5	4226.3
35°	6894.7	6840.7	6762.6	6507.5	6003.2	5547.0	5345.9	5222.8	5192.8	4850.6	4358.3
37.5°	7236.9	7197.9	7131.8	6864.7	6282.4	5805.1	5580.0	5438.9	5405.9	5036.7	4499.4
40°	7741.2	7639.1	7585.1	7197.9	6525.5	6039.2	5844.1	5697.1	5661.0	5234.8	4613.5
42.5°	8170.4	8095.4	8029.3	7495.0	6756.6	6240.4	6093.3	5958.2	5910.2	5429.9	4736.5
45°	8242.4	8272.4	8239.4	7642.1	7122.8	6438.5	6345.4	6258.4	6213.3	5694.1	4922.6
47.5°	8245.4	8245.4	8050.3	7726.2	7576.1	6660.6	6615.6	6645.6	6597.5	6030.2	5144.8
50°	8029.3	8068.3	7966.3	7747.2	7696.1	6882.7	6945.7	7107.8	7059.8	6387.4	5384.9
52.5°	7582.1	7711.1	7708.1	7714.1	7522.0	7071.8	7293.9	7663.1	7582.1	6789.6	5640.0
55°	6792.7	7050.8	7281.9	7480.0	7372.0	7185.9	7720.1	8254.4	8170.4	7239.9	5898.2
57.5°	6117.3	6282.4	6570.5	7131.8	7194.9	7284.9	8119.4	8872.8	8797.7	7738.2	6168.3
60°	5345.9	5574.0	5862.2	6660.6	6978.8	7414.0	8557.6	9476.1	9404.1	8242.4	6429.5
62.5°	4160.2	4454.4	5030.7	5937.2	6663.6	7495.0	8902.8	10007.4	9974.4	8719.7	6663.6
65°	2899.6	3160.7	3968.1	5048.7	6162.3	7459.0	9178.9	10481.6	10451.6	9109.9	6828.7
67.5°	1692.9	1996.1	2908.6	4064.2	5276.8	7209.9	9269.0	10760.8	10760.8	9347.0	6873.7
70°	966.5	1107.6	1918.0	2962.6	4046.2	6522.5	9016.8	10757.8	10808.8	9293.0	6687.6
72.5°	675.4	738.4	1290.7	1993.1	2743.5	5276.8	8356.5	10238.5	10307.5	8782.7	6051.3
75°	525.3	570.3	909.5	1359.7	1728.9	3583.9	6912.7	8632.6	8815.7	7486.0	4892.6
77.5°	399.2	432.2	531.3	849.5	1107.6	2059.1	4562.5	5661.0	5673.0	4583.5	2623.4
80°	291.2	324.2	354.2	519.3	588.3	963.5	1722.9	2365.3	2299.2	2218.2	1419.8
82.5°	174.1	207.1	216.1	282.2	288.2	411.2	603.3	762.4	732.4	975.5	666.4
85°	75.0	105.1	111.1	129.1	123.1	168.1	240.1	201.1	180.1	207.1	144.1
87.5°	18.0	30.0	30.0	33.0	27.0	42.0	45.0	33.0	30.0	36.0	36.0
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°	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0	3674.0
2.5°	3653.0	3644.0	3647.0	3595.9	3580.9	3565.9	3556.9	3550.9	3544.9	3553.9	3562.9
5°	3680.0	3659.0	3635.0	3559.9	3529.9	3496.9	3472.9	3451.9	3442.9	3442.9	3451.9
7.5°	3701.0	3665.0	3613.9	3514.9	3460.9	3415.8	3376.8	3349.8	3334.8	3334.8	3343.8
10°	3704.0	3653.0	3571.9	3451.9	3379.8	3313.8	3268.8	3238.7	3217.7	3217.7	3223.7
12.5°	3722.0	3653.0	3547.9	3403.8	3313.8	3232.7	3178.7	3133.7	3124.7	3124.7	3130.7
15°	3752.0	3668.0	3532.9	3361.8	3253.7	3160.7	3100.7	3052.6	3034.6	3046.6	3049.6
17.5°	3779.0	3677.0	3505.9	3307.8	3178.7	3076.7	3010.6	2968.6	2944.6	2971.6	2971.6
20°	3797.0	3677.0	3466.9	3238.7	3097.7	2983.6	2920.6	2869.5	2851.5	2884.6	2887.6
22.5°	3824.1	3674.0	3424.8	3169.7	3010.6	2890.6	2827.5	2788.5	2779.5	2815.5	2827.5
25°	3854.1	3680.0	3379.8	3091.7	2914.6	2797.5	2749.5	2731.5	2737.5	2782.5	2797.5
27.5°	3887.1	3692.0	3334.8	3004.6	2809.5	2704.5	2677.4	2686.4	2710.5	2767.5	2785.5
30°	3917.1	3695.0	3271.8	2902.6	2689.4	2590.4	2602.4	2641.4	2677.4	2734.5	2755.5
32.5°	3956.1	3698.0	3205.7	2791.5	2560.4	2488.3	2542.4	2605.4	2641.4	2695.4	2719.5
35°	4052.2	3749.0	3154.7	2683.4	2440.3	2401.3	2491.3	2572.4	2593.4	2641.4	2662.4
37.5°	4163.2	3833.1	3127.7	2572.4	2323.2	2314.2	2428.3	2509.3	2515.4	2545.4	2566.4
40°	4232.3	3869.1	3097.7	2479.3	2218.2	2224.2	2341.3	2404.3	2392.3	2413.3	2428.3
42.5°	4301.3	3881.1	3034.6	2401.3	2119.1	2125.1	2215.2	2260.2	2266.2	2311.2	2332.3
45°	4418.4	3914.1	2965.6	2329.3	2029.1	2008.1	2062.1	2122.1	2200.2	2287.2	2311.2
47.5°	4574.5	3983.1	2893.6	2242.2	1942.0	1873.0	1894.0	1999.1	2080.1	2161.2	2176.2
50°	4733.5	4052.2	2827.5	2137.1	1855.0	1728.9	1737.9	1834.0	1900.0	1963.1	1972.1
52.5°	4889.6	4112.2	2770.5	2038.1	1755.9	1557.8	1593.9	1692.9	1737.9	1768.0	1777.0
55°	5045.7	4163.2	2719.5	1954.1	1641.9	1422.8	1455.8	1548.8	1593.9	1608.9	1614.9
57.5°	5207.8	4223.3	2680.4	1882.0	1512.8	1302.7	1323.7	1389.7	1431.8	1449.8	1443.8
60°	5342.9	4274.3	2659.4	1807.0	1383.7	1191.6	1185.6	1245.7	1305.7	1323.7	1317.7
62.5°	5447.9	4307.3	2626.4	1710.9	1269.7	1080.6	1050.6	1128.6	1191.6	1203.6	1212.7
65°	5505.0	4310.3	2545.4	1587.9	1152.6	960.5	939.5	1017.5	1056.6	1068.6	1068.6
67.5°	5496.0	4262.3	2386.3	1422.8	1044.6	852.5	834.4	882.5	939.5	948.5	939.5
70°	5309.9	4064.2	2131.1	1248.7	915.5	756.4	723.4	771.4	825.4	792.4	777.4
72.5°	4781.6	3550.9	1755.9	1056.6	771.4	636.3	621.3	669.4	672.4	678.4	663.4
75°	3773.0	2644.4	1314.7	822.4	624.3	534.3	531.3	522.3	534.3	558.3	540.3
77.5°	1981.1	1320.7	711.4	504.3	453.2	429.2	408.2	405.2	441.2	456.2	438.2
80°	1074.6	741.4	408.2	303.2	276.1	279.2	306.2	300.2	339.2	348.2	333.2
82.5°	468.3	351.2	201.1	183.1	183.1	180.1	189.1	210.1	252.1	252.1	201.1
85°	102.1	87.0	78.0	90.0	102.1	102.1	102.1	102.1	72.0	39.0	27.0
87.5°	33.0	33.0	33.0	36.0	39.0	39.0	33.0	24.0	15.0	3.0	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)