

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: P836113

Luminaire Tested: **ARCH3-140-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836113
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: ARCH3-140-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20475 lumens
Efficiency: N/A
Efficacy: 143.7 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): 142.5
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



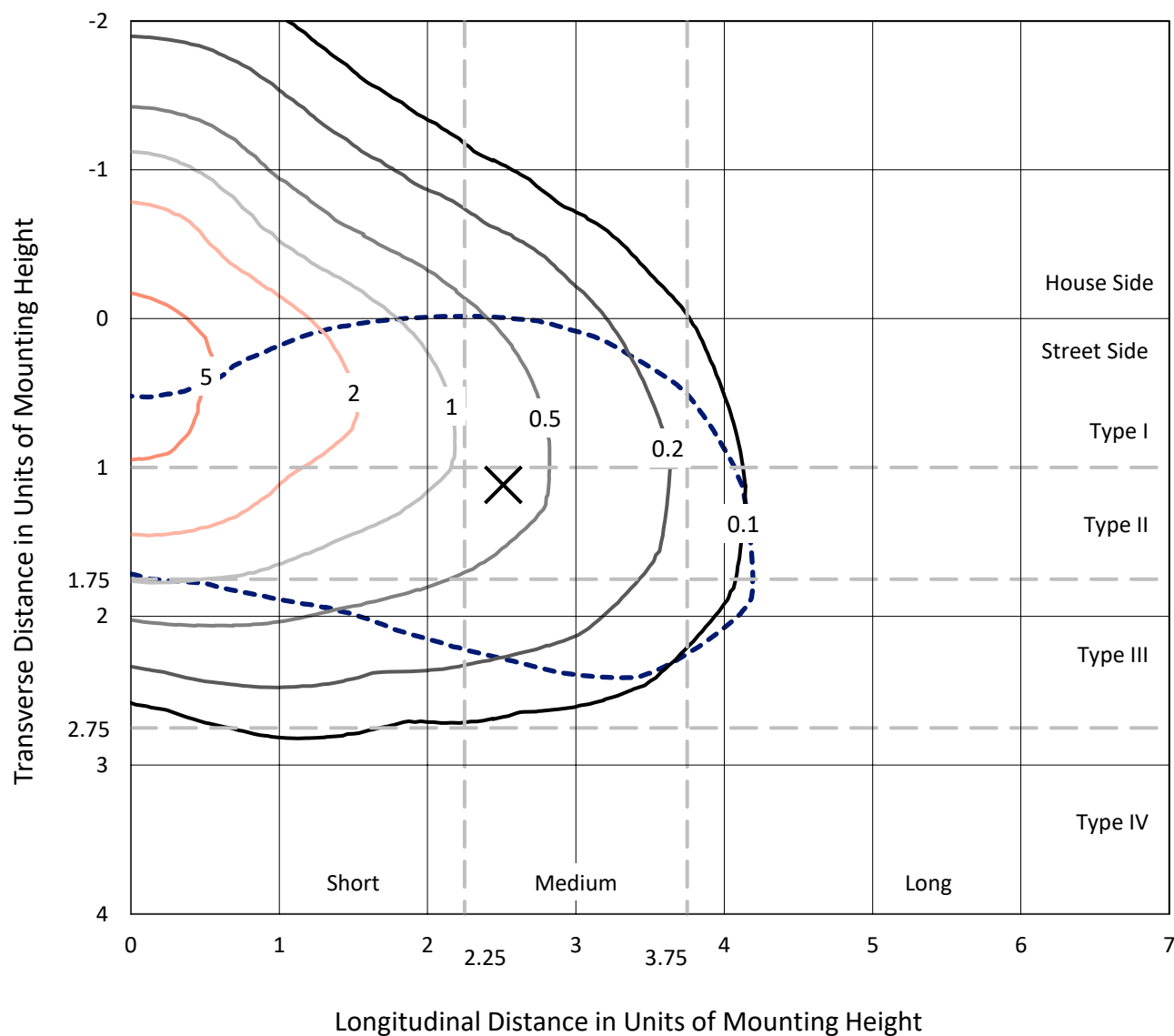
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

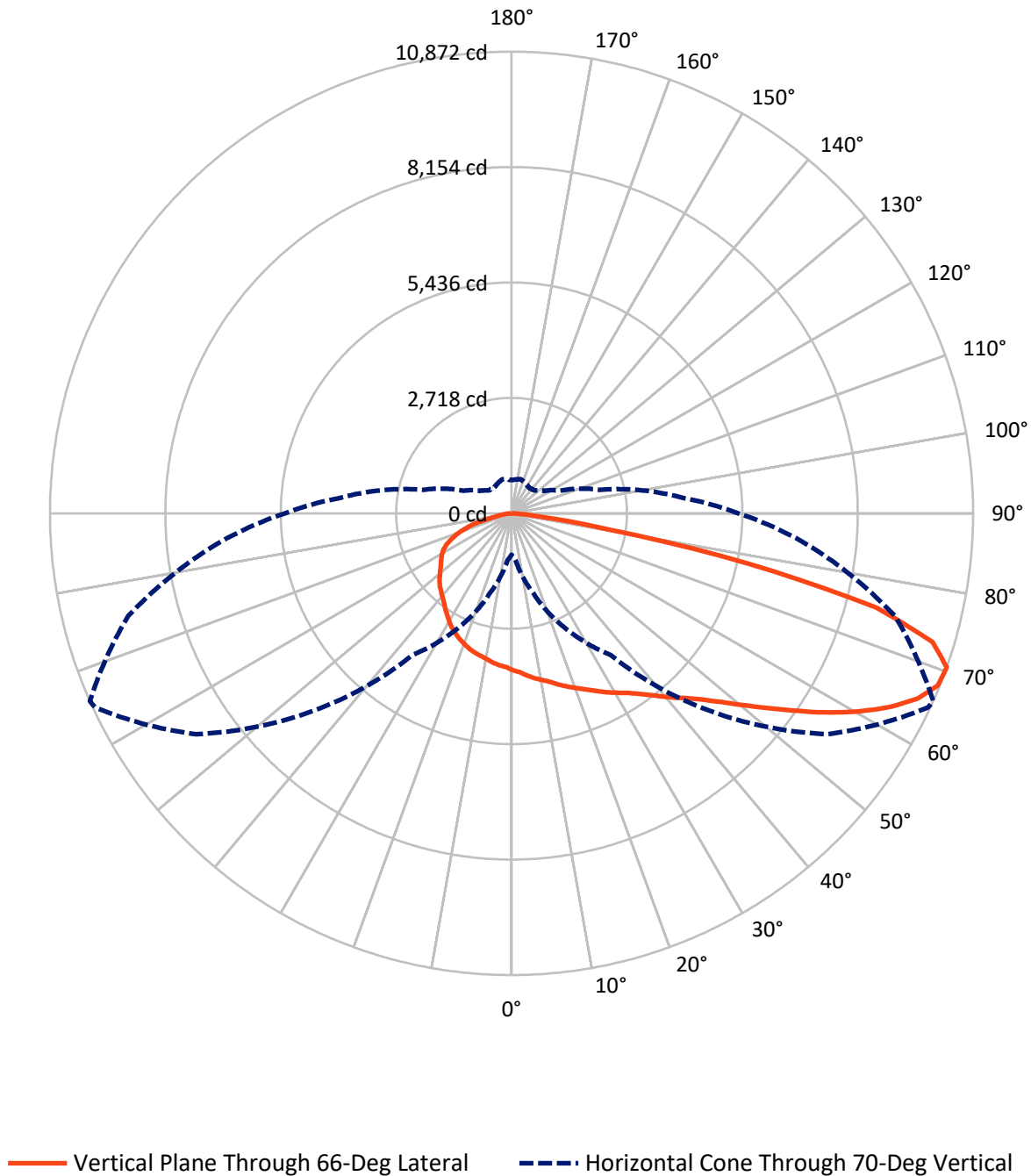
--- 1/2 Max cd



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	5425.4	0.0	5425.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15049.6	0.0	15049.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	20475.0	0.0	20475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	1.7
10°-20°	1065.1	5.2
20°-30°	1785.5	8.7
30°-40°	2673.4	13.1
40°-50°	3574.4	17.5
50°-60°	4173.2	20.4
60°-70°	4149.6	20.3
70°-80°	2456.6	12.0
80°-90°	242.1	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°	20475.0	100.0
0°-180°	20475.0	100.0

Coefficient of Utilization



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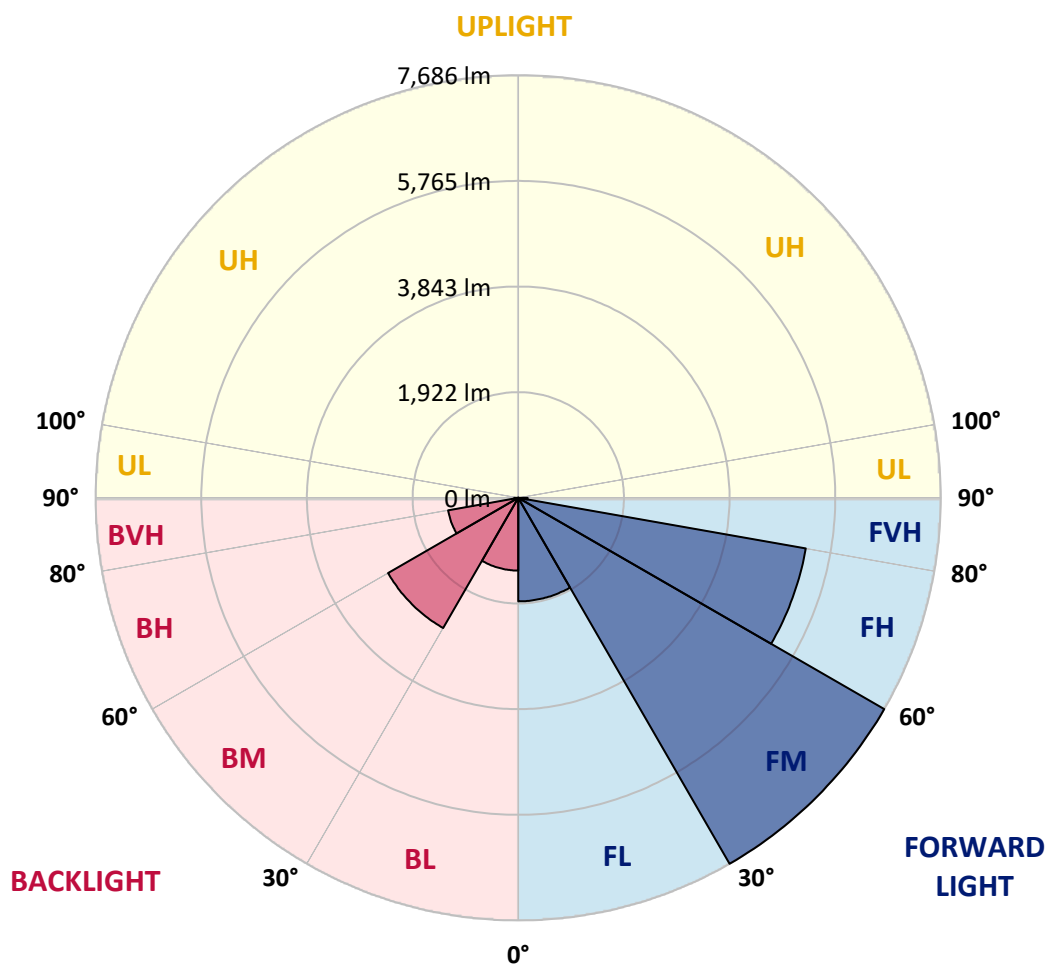
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1883.2	9.2			
FM	(30°-60°)	7686.0	37.5			
FH	(60°-80°)	5310.2	25.9			G3/7500
FVH	(80°-90°)	170.2	0.8			G2/225
BL	(0°-30°)	1322.5	6.5	B3/2500		
BM	(30°-60°)	2735.0	13.4	B3/5000		
BH	(60°-80°)	1296.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	72.0	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°	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3
2.5°	3831.1	3825.1	3822.1	3810.0	3782.8	3794.9	3767.7	3749.6	3746.6	3704.3	3680.2
5°	3988.1	3985.1	3979.1	3960.9	3918.7	3924.7	3879.4	3846.2	3837.2	3770.7	3719.4
7.5°	4121.0	4114.9	4111.9	4087.7	4042.5	4039.4	3985.1	3936.8	3921.7	3831.1	3752.6
10°	4223.6	4214.5	4220.6	4196.4	4148.1	4139.1	4069.6	4006.2	3991.1	3876.4	3767.7
12.5°	4311.1	4305.1	4314.2	4293.0	4253.8	4244.7	4175.3	4093.8	4075.7	3942.8	3800.9
15°	4407.8	4386.6	4404.7	4395.7	4368.5	4365.5	4302.1	4211.5	4187.4	4027.4	3852.3
17.5°	4459.1	4447.0	4468.1	4471.2	4459.1	4480.2	4419.8	4311.1	4290.0	4105.9	3897.5
20°	4495.3	4477.2	4501.3	4519.5	4528.5	4570.8	4522.5	4416.8	4392.7	4181.3	3939.8
22.5°	4619.1	4579.8	4582.9	4594.9	4601.0	4661.4	4631.2	4528.5	4504.4	4274.9	3991.1
25°	4930.0	4851.6	4800.2	4764.0	4721.7	4773.1	4754.9	4655.3	4634.2	4386.6	4054.5
27.5°	5413.1	5313.5	5210.8	5105.2	4939.1	4918.0	4887.8	4797.2	4773.1	4498.3	4117.9
30°	5962.5	5862.9	5742.2	5573.1	5262.1	5099.1	5029.7	4930.0	4902.9	4598.0	4178.3
32.5°	6509.0	6421.4	6300.7	6095.4	5651.6	5319.5	5171.6	5068.9	5041.8	4706.6	4250.8
35°	6934.7	6880.3	6801.8	6545.2	6038.0	5579.1	5376.9	5253.1	5222.9	4878.7	4383.6
37.5°	7278.8	7239.6	7173.2	6904.5	6318.8	5838.8	5612.3	5470.5	5437.2	5065.9	4525.5
40°	7786.0	7683.4	7629.0	7239.6	6563.3	6074.3	5878.0	5730.1	5693.9	5265.2	4640.2
42.5°	8217.8	8142.3	8075.9	7538.5	6795.8	6276.5	6128.6	5992.7	5944.4	5461.4	4764.0
45°	8290.2	8320.4	8287.2	7686.4	7164.1	6475.8	6382.2	6294.6	6249.4	5727.1	4951.2
47.5°	8293.2	8293.2	8097.0	7770.9	7620.0	6699.2	6653.9	6684.1	6635.8	6065.2	5174.6
50°	8075.9	8115.1	8012.5	7792.1	7740.7	6922.6	6986.0	7149.0	7100.7	6424.5	5416.1
52.5°	7626.0	7755.8	7752.8	7758.9	7565.6	7112.8	7336.2	7707.5	7626.0	6829.0	5672.7
55°	6832.0	7091.7	7324.1	7523.4	7414.7	7227.5	7764.9	8302.3	8217.8	7281.9	5932.4
57.5°	6152.7	6318.8	6608.6	7173.2	7236.6	7327.1	8166.4	8924.2	8848.7	7783.0	6204.1
60°	5376.9	5606.3	5896.1	6699.2	7019.2	7457.0	8607.2	9531.0	9458.6	8290.2	6466.7
62.5°	4184.4	4480.2	5059.9	5971.6	6702.2	7538.5	8954.4	10065.4	10032.2	8770.2	6702.2
65°	2916.4	3179.0	3991.1	5078.0	6198.0	7502.2	9232.1	10542.4	10512.2	9162.7	6868.3
67.5°	1702.7	2007.6	2925.4	4087.7	5307.4	7251.7	9322.7	10823.2	10823.2	9401.2	6913.5
70°	972.1	1114.0	1929.1	2979.8	4069.6	6560.3	9069.1	10820.1	10871.5	9346.9	6726.4
72.5°	679.3	742.7	1298.2	2004.6	2759.4	5307.4	8404.9	10297.9	10367.3	8833.6	6086.3
75°	528.3	573.6	914.8	1367.6	1739.0	3604.7	6952.8	8682.7	8866.8	7529.4	4921.0
77.5°	401.5	434.7	534.4	854.4	1114.0	2071.0	4588.9	5693.9	5705.9	4610.0	2638.6
80°	292.8	326.1	356.2	522.3	591.7	969.1	1732.9	2379.0	2312.6	2231.1	1428.0
82.5°	175.1	208.3	217.4	283.8	289.8	413.6	606.8	766.8	736.6	981.2	670.2
85°	75.5	105.7	111.7	129.8	123.8	169.1	241.5	202.3	181.1	208.3	144.9
87.5°	18.1	30.2	30.2	33.2	27.2	42.3	45.3	33.2	30.2	36.2	36.2
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°	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3	3695.3
2.5°	3674.1	3665.1	3668.1	3616.8	3601.7	3586.6	3577.5	3571.5	3565.5	3574.5	3583.6
5°	3701.3	3680.2	3656.0	3580.5	3550.4	3517.1	3493.0	3471.9	3462.8	3462.8	3471.9
7.5°	3722.4	3686.2	3634.9	3535.3	3480.9	3435.6	3396.4	3369.2	3354.1	3354.1	3363.2
10°	3725.5	3674.1	3592.6	3471.9	3399.4	3333.0	3287.7	3257.5	3236.4	3236.4	3242.4
12.5°	3743.6	3674.1	3568.5	3423.6	3333.0	3251.5	3197.1	3151.8	3142.8	3142.8	3148.8
15°	3773.8	3689.2	3553.4	3381.3	3272.6	3179.0	3118.6	3070.3	3052.2	3064.3	3067.3
17.5°	3800.9	3698.3	3526.2	3327.0	3197.1	3094.5	3028.1	2985.8	2961.7	2988.8	2988.8
20°	3819.1	3698.3	3487.0	3257.5	3115.6	3000.9	2937.5	2886.2	2868.1	2901.3	2904.3
22.5°	3846.2	3695.3	3444.7	3188.1	3028.1	2907.3	2843.9	2804.7	2795.6	2831.8	2843.9
25°	3876.4	3701.3	3399.4	3109.6	2931.5	2813.7	2765.4	2747.3	2753.3	2798.6	2813.7
27.5°	3909.6	3713.4	3354.1	3022.0	2825.8	2720.1	2693.0	2702.0	2726.2	2783.5	2801.6
30°	3939.8	3716.4	3290.7	2919.4	2705.0	2605.4	2617.5	2656.7	2693.0	2750.3	2771.5
32.5°	3979.1	3719.4	3224.3	2807.7	2575.2	2502.8	2557.1	2620.5	2656.7	2711.1	2735.2
35°	4075.7	3770.7	3173.0	2699.0	2454.5	2415.2	2505.8	2587.3	2608.4	2656.7	2677.9
37.5°	4187.4	3855.3	3145.8	2587.3	2336.7	2327.7	2442.4	2523.9	2529.9	2560.1	2581.3
40°	4256.8	3891.5	3115.6	2493.7	2231.1	2237.1	2354.8	2418.2	2406.2	2427.3	2442.4
42.5°	4326.2	3903.6	3052.2	2415.2	2131.4	2137.5	2228.0	2273.3	2279.4	2324.6	2345.8
45°	4444.0	3936.8	2982.8	2342.8	2040.9	2019.7	2074.1	2134.4	2212.9	2300.5	2324.6
47.5°	4601.0	4006.2	2910.3	2255.2	1953.3	1883.9	1905.0	2010.7	2092.2	2173.7	2188.8
50°	4761.0	4075.7	2843.9	2149.5	1865.7	1739.0	1748.0	1844.6	1911.0	1974.4	1983.5
52.5°	4918.0	4136.0	2786.5	2049.9	1766.1	1566.9	1603.1	1702.7	1748.0	1778.2	1787.3
55°	5075.0	4187.4	2735.2	1965.4	1651.4	1431.0	1464.2	1557.8	1603.1	1618.2	1624.2
57.5°	5238.0	4247.8	2696.0	1892.9	1521.6	1310.3	1331.4	1397.8	1440.1	1458.2	1452.1
60°	5373.8	4299.1	2674.8	1817.4	1391.8	1198.5	1192.5	1252.9	1313.3	1331.4	1325.3
62.5°	5479.5	4332.3	2641.6	1720.8	1277.0	1086.8	1056.7	1135.1	1198.5	1210.6	1219.7
65°	5536.9	4335.3	2560.1	1597.1	1159.3	966.1	945.0	1023.4	1062.7	1074.8	1074.8
67.5°	5527.8	4287.0	2400.1	1431.0	1050.6	857.4	839.3	887.6	945.0	954.0	945.0
70°	5340.6	4087.7	2143.5	1255.9	920.8	760.8	727.6	775.9	830.2	797.0	781.9
72.5°	4809.3	3571.5	1766.1	1062.7	775.9	640.0	624.9	673.2	676.3	682.3	667.2
75°	3794.9	2659.7	1322.3	827.2	628.0	537.4	534.4	525.3	537.4	561.5	543.4
77.5°	1992.5	1328.4	715.5	507.2	455.9	431.7	410.6	407.6	443.8	458.9	440.8
80°	1080.8	745.7	410.6	304.9	277.7	280.8	307.9	301.9	341.1	350.2	335.1
82.5°	471.0	353.2	202.3	184.2	184.2	181.1	190.2	211.3	253.6	253.6	202.3
85°	102.6	87.6	78.5	90.6	102.6	102.6	102.6	102.6	72.5	39.2	27.2
87.5°	33.2	33.2	33.2	36.2	39.2	39.2	33.2	24.2	15.1	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)