

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: P841024

Luminaire Tested: **ARCH4-120-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20565 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122
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



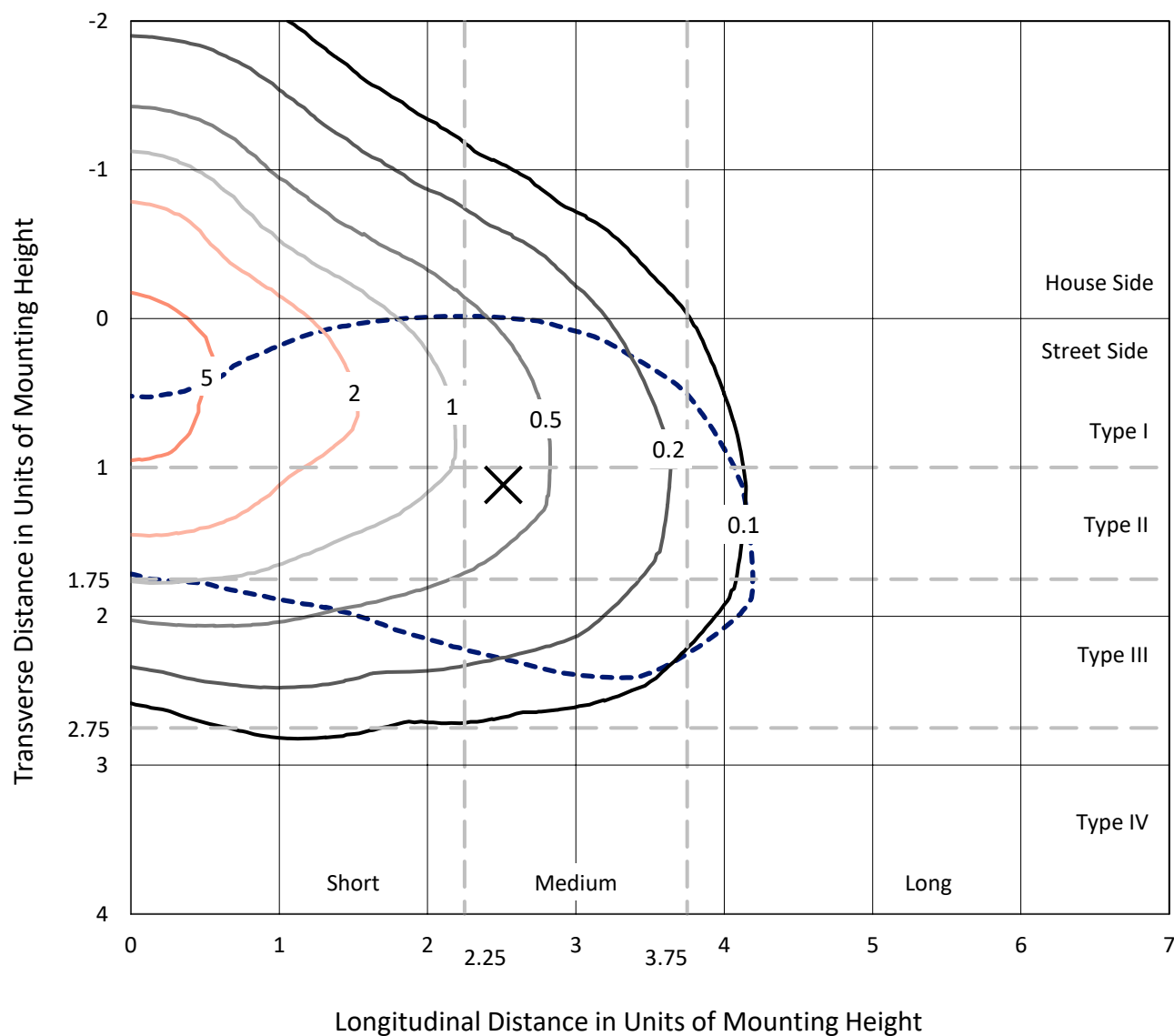
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

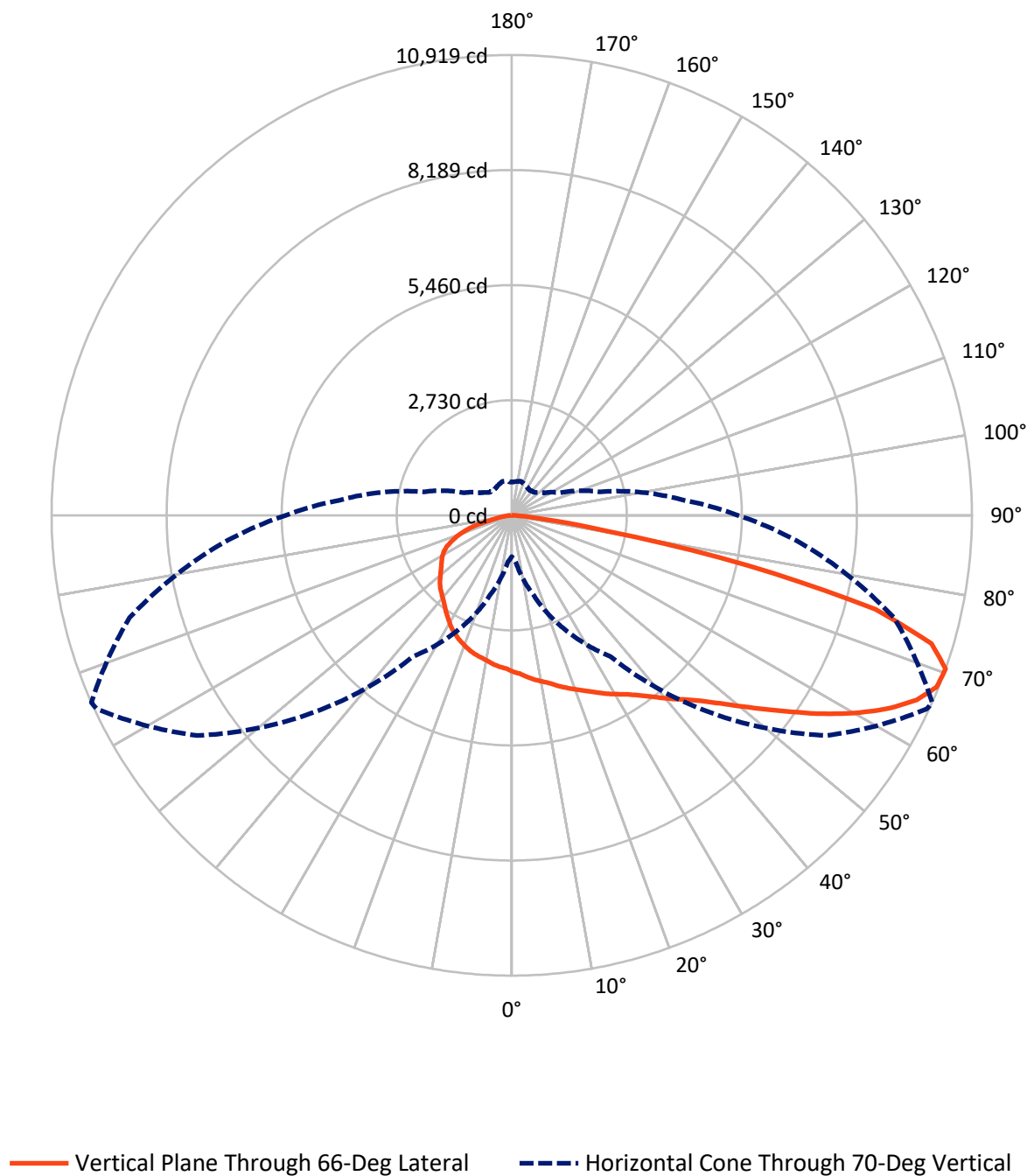
--- 1/2 Max cd



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	5449.3	0.0	5449.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15115.7	0.0	15115.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	20565.0	0.0	20565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.7
10°-20°	1069.8	5.2
20°-30°	1793.3	8.7
30°-40°	2685.2	13.1
40°-50°	3590.1	17.5
50°-60°	4191.5	20.4
60°-70°	4167.8	20.3
70°-80°	2467.4	12.0
80°-90°	243.2	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°	20565.0	100.0
0°-180°	20565.0	100.0

Coefficient of Utilization



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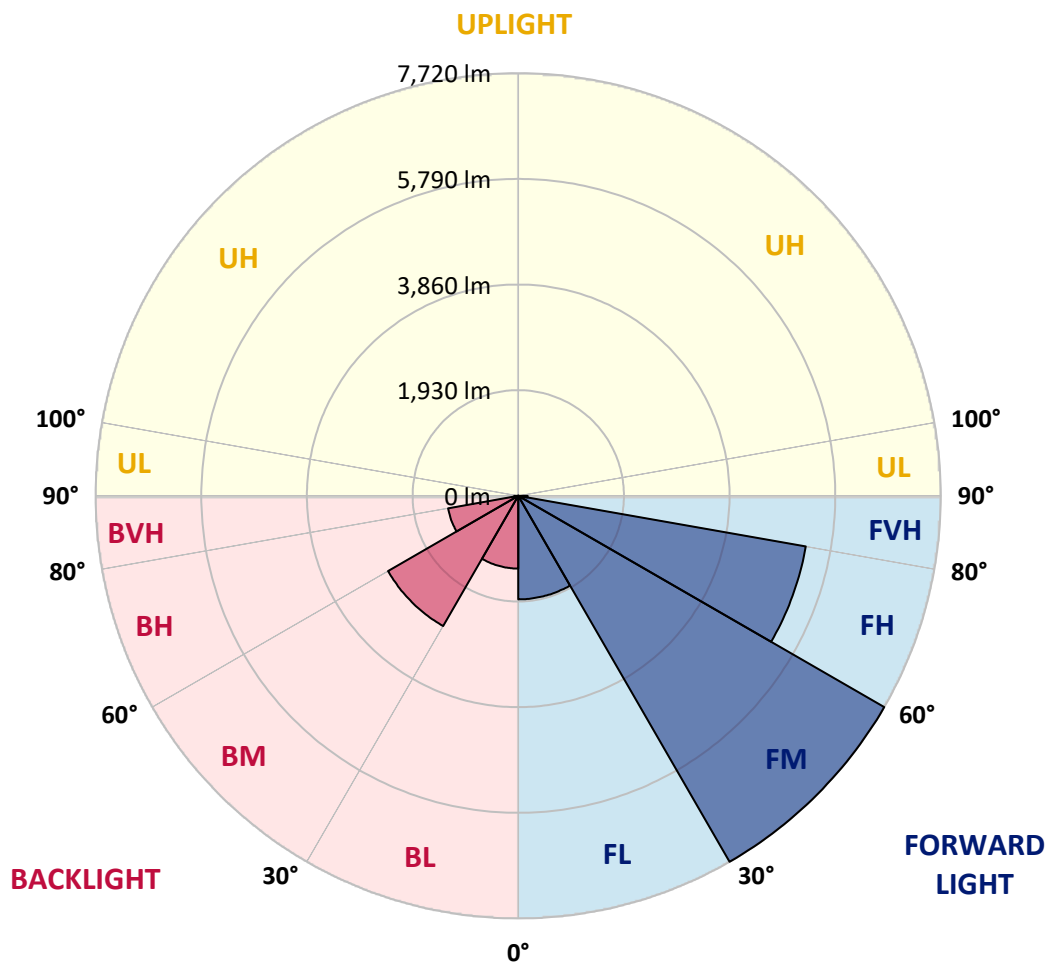
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1891.4	9.2			
FM	(30°-60°)	7719.8	37.5			
FH	(60°-80°)	5333.6	25.9			G3/7500
FVH	(80°-90°)	170.9	0.8			G2/225
BL	(0°-30°)	1328.3	6.5	B3/2500		
BM	(30°-60°)	2747.0	13.4	B3/5000		
BH	(60°-80°)	1301.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	72.3	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5
2.5°	3848.0	3841.9	3838.9	3826.7	3799.5	3811.6	3784.3	3766.1	3763.1	3720.6	3696.4
5°	4005.6	4002.6	3996.5	3978.4	3935.9	3942.0	3896.5	3863.1	3854.0	3787.3	3735.8
7.5°	4139.1	4133.0	4130.0	4105.7	4060.2	4057.2	4002.6	3954.1	3938.9	3848.0	3769.1
10°	4242.2	4233.1	4239.1	4214.9	4166.4	4157.3	4087.5	4023.8	4008.7	3893.5	3784.3
12.5°	4330.1	4324.0	4333.1	4311.9	4272.5	4263.4	4193.6	4111.8	4093.6	3960.2	3817.6
15°	4427.1	4405.9	4424.1	4415.0	4387.7	4384.7	4321.0	4230.0	4205.8	4045.1	3869.2
17.5°	4478.7	4466.6	4487.8	4490.8	4478.7	4499.9	4439.3	4330.1	4308.9	4123.9	3914.7
20°	4515.1	4496.9	4521.1	4539.3	4548.4	4590.9	4542.4	4436.2	4412.0	4199.7	3957.1
22.5°	4639.4	4600.0	4603.0	4615.1	4621.2	4681.8	4651.5	4548.4	4524.2	4293.7	4008.7
25°	4951.7	4872.9	4821.3	4784.9	4742.5	4794.0	4775.8	4675.8	4654.6	4405.9	4072.4
27.5°	5436.9	5336.8	5233.7	5127.6	4960.8	4939.6	4909.3	4818.3	4794.0	4518.1	4136.0
30°	5988.8	5888.7	5767.4	5597.6	5285.3	5121.5	5051.8	4951.7	4924.4	4618.2	4196.7
32.5°	6537.6	6449.7	6328.4	6122.2	5676.4	5342.9	5194.3	5091.2	5063.9	4727.3	4269.5
35°	6965.2	6910.6	6831.7	6574.0	6064.6	5603.7	5400.5	5276.2	5245.8	4900.2	4402.9
37.5°	7310.8	7271.4	7204.7	6934.8	6346.6	5864.4	5637.0	5494.5	5461.1	5088.2	4545.4
40°	7820.3	7717.2	7662.6	7271.4	6592.2	6101.0	5903.9	5755.3	5718.9	5288.3	4660.6
42.5°	8253.9	8178.1	8111.4	7571.6	6825.7	6304.1	6155.5	6019.1	5970.6	5485.4	4784.9
45°	8326.6	8357.0	8323.6	7720.2	7195.6	6504.2	6410.2	6322.3	6276.8	5752.2	4972.9
47.5°	8329.7	8329.7	8132.6	7805.1	7653.5	6728.6	6683.2	6713.5	6665.0	6091.9	5197.3
50°	8111.4	8150.8	8047.7	7826.3	7774.8	6953.0	7016.7	7180.4	7131.9	6452.7	5439.9
52.5°	7659.5	7789.9	7786.9	7793.0	7598.9	7144.1	7368.4	7741.4	7659.5	6859.0	5697.7
55°	6862.1	7122.8	7356.3	7556.4	7447.3	7259.3	7799.0	8338.8	8253.9	7313.9	5958.4
57.5°	6179.8	6346.6	6637.7	7204.7	7268.4	7359.4	8202.3	8963.4	8887.6	7817.2	6231.3
60°	5400.5	5630.9	5922.0	6728.6	7050.1	7489.7	8645.0	9572.9	9500.1	8326.6	6495.1
62.5°	4202.7	4499.9	5082.1	5997.9	6731.7	7571.6	8993.8	10109.6	10076.3	8808.8	6731.7
65°	2929.2	3193.0	4008.7	5100.3	6225.3	7535.2	9272.7	10588.7	10558.4	9203.0	6898.4
67.5°	1710.2	2016.5	2938.3	4105.7	5330.8	7283.5	9363.7	10870.7	10870.7	9442.5	6943.9
70°	976.4	1118.9	1937.6	2992.9	4087.5	6589.2	9109.0	10867.7	10919.3	9387.9	6755.9
72.5°	682.3	745.9	1303.9	2013.4	2771.5	5330.8	8441.9	10343.1	10412.9	8872.5	6113.1
75°	530.6	576.1	918.8	1373.6	1746.6	3620.5	6983.3	8720.8	8905.8	7562.5	4942.6
77.5°	403.3	436.6	536.7	858.1	1118.9	2080.1	4609.1	5718.9	5731.0	4630.3	2650.2
80°	294.1	327.5	357.8	524.6	594.3	973.4	1740.5	2389.4	2322.7	2240.9	1434.3
82.5°	175.9	209.2	218.3	285.0	291.1	415.4	609.5	770.2	739.9	985.5	673.2
85°	75.8	106.1	112.2	130.4	124.3	169.8	242.6	203.2	181.9	209.2	145.5
87.5°	18.2	30.3	30.3	33.4	27.3	42.5	45.5	33.4	30.3	36.4	36.4
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°	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5
2.5°	3690.3	3681.2	3684.2	3632.7	3617.5	3602.4	3593.3	3587.2	3581.1	3590.2	3599.3
5°	3717.6	3696.4	3672.1	3596.3	3566.0	3532.6	3508.4	3487.1	3478.0	3478.0	3487.1
7.5°	3738.8	3702.4	3650.9	3550.8	3496.2	3450.7	3411.3	3384.0	3368.9	3368.9	3378.0
10°	3741.8	3690.3	3608.4	3487.1	3414.4	3347.6	3302.2	3271.8	3250.6	3250.6	3256.7
12.5°	3760.0	3690.3	3584.2	3438.6	3347.6	3265.8	3211.2	3165.7	3156.6	3156.6	3162.7
15°	3790.4	3705.4	3569.0	3396.2	3287.0	3193.0	3132.3	3083.8	3065.6	3077.8	3080.8
17.5°	3817.6	3714.5	3541.7	3341.6	3211.2	3108.1	3041.4	2998.9	2974.7	3002.0	3002.0
20°	3835.8	3714.5	3502.3	3271.8	3129.3	3014.1	2950.4	2898.9	2880.7	2914.0	2917.1
22.5°	3863.1	3711.5	3459.8	3202.1	3041.4	2920.1	2856.4	2817.0	2807.9	2844.3	2856.4
25°	3893.5	3717.6	3414.4	3123.3	2944.3	2826.1	2777.6	2759.4	2765.4	2810.9	2826.1
27.5°	3926.8	3729.7	3368.9	3035.3	2838.2	2732.1	2704.8	2713.9	2738.2	2795.8	2814.0
30°	3957.1	3732.7	3305.2	2932.2	2716.9	2616.9	2629.0	2668.4	2704.8	2762.4	2783.6
32.5°	3996.5	3735.8	3238.5	2820.0	2586.5	2513.8	2568.3	2632.0	2668.4	2723.0	2747.2
35°	4093.6	3787.3	3186.9	2710.9	2465.2	2425.8	2516.8	2598.7	2619.9	2668.4	2689.6
37.5°	4205.8	3872.2	3159.6	2598.7	2347.0	2337.9	2453.1	2535.0	2541.1	2571.4	2592.6
40°	4275.5	3908.6	3129.3	2504.7	2240.9	2246.9	2365.2	2428.9	2416.7	2438.0	2453.1
42.5°	4345.3	3920.7	3065.6	2425.8	2140.8	2146.9	2237.8	2283.3	2289.4	2334.9	2356.1
45°	4463.5	3954.1	2995.9	2353.1	2049.8	2028.6	2083.2	2143.8	2222.7	2310.6	2334.9
47.5°	4621.2	4023.8	2923.1	2265.1	1961.9	1892.1	1913.4	2019.5	2101.4	2183.2	2198.4
50°	4781.9	4093.6	2856.4	2159.0	1874.0	1746.6	1755.7	1852.7	1919.4	1983.1	1992.2
52.5°	4939.6	4154.2	2798.8	2058.9	1773.9	1573.8	1610.1	1710.2	1755.7	1786.0	1795.1
55°	5097.3	4205.8	2747.2	1974.0	1658.7	1437.3	1470.7	1564.7	1610.1	1625.3	1631.4
57.5°	5261.0	4266.4	2707.8	1901.2	1528.3	1316.0	1337.2	1403.9	1446.4	1464.6	1458.5
60°	5397.5	4318.0	2686.6	1825.4	1397.9	1203.8	1197.8	1258.4	1319.0	1337.2	1331.2
62.5°	5503.6	4351.3	2653.2	1728.4	1282.7	1091.6	1061.3	1140.1	1203.8	1215.9	1225.0
65°	5561.2	4354.4	2571.4	1604.1	1164.4	970.3	949.1	1027.9	1067.4	1079.5	1079.5
67.5°	5552.1	4305.8	2410.7	1437.3	1055.2	861.2	843.0	891.5	949.1	958.2	949.1
70°	5364.1	4105.7	2152.9	1261.4	924.8	764.1	730.8	779.3	833.9	800.5	785.4
72.5°	4830.4	3587.2	1773.9	1067.4	779.3	642.8	627.7	676.2	679.2	685.3	670.1
75°	3811.6	2671.4	1328.1	830.8	630.7	539.7	536.7	527.6	539.7	564.0	545.8
77.5°	2001.3	1334.2	718.7	509.4	457.9	433.6	412.4	409.4	445.7	460.9	442.7
80°	1085.6	749.0	412.4	306.3	279.0	282.0	309.3	303.2	342.6	351.7	336.6
82.5°	473.0	354.8	203.2	185.0	185.0	181.9	191.0	212.3	254.7	254.7	203.2
85°	103.1	87.9	78.8	91.0	103.1	103.1	103.1	103.1	72.8	39.4	27.3
87.5°	33.4	33.4	33.4	36.4	39.4	39.4	33.4	24.3	15.2	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)