

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: P841291

Luminaire Tested: **ARCH4-160-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15918 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

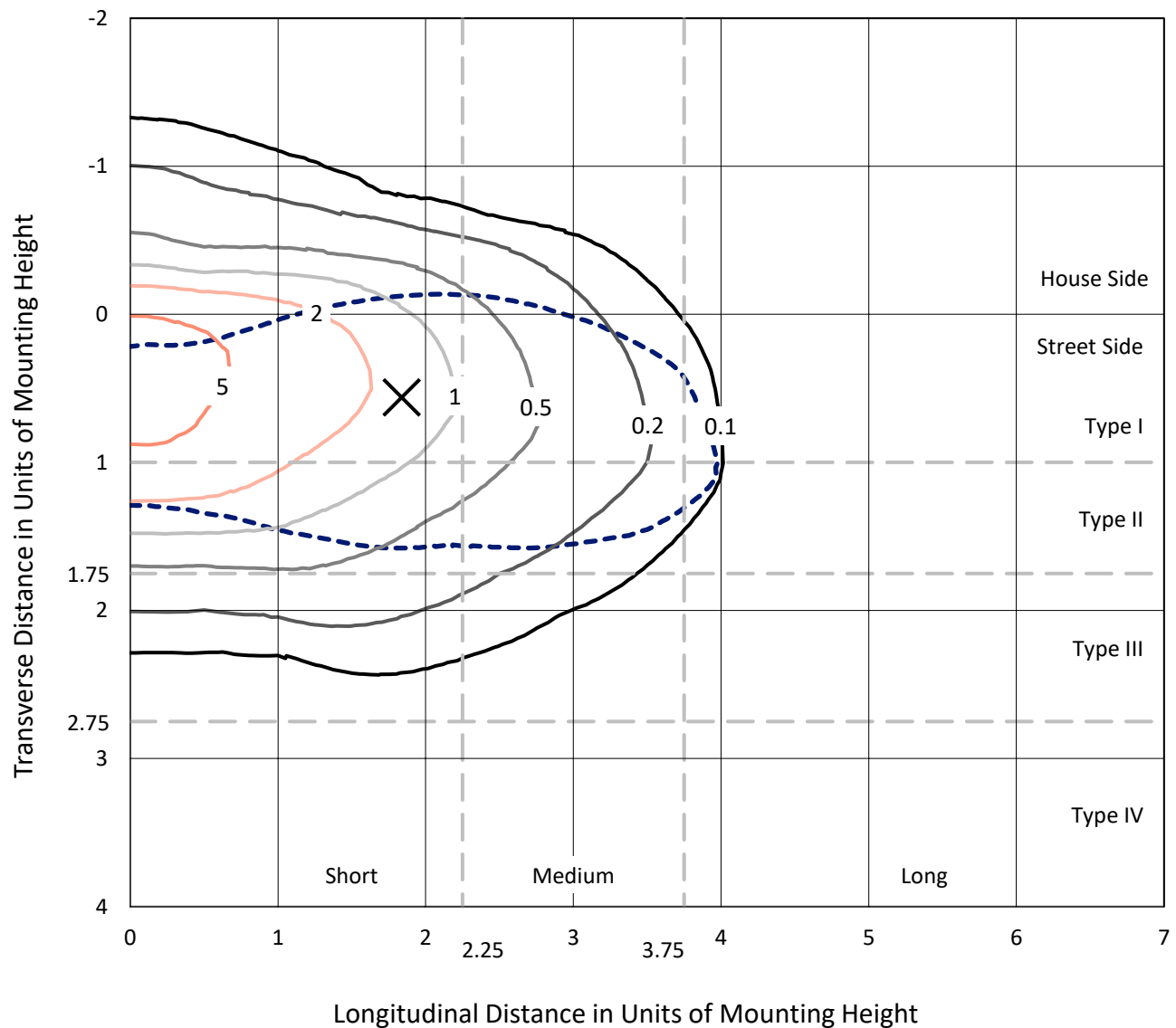
Input Watts (W): 160.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

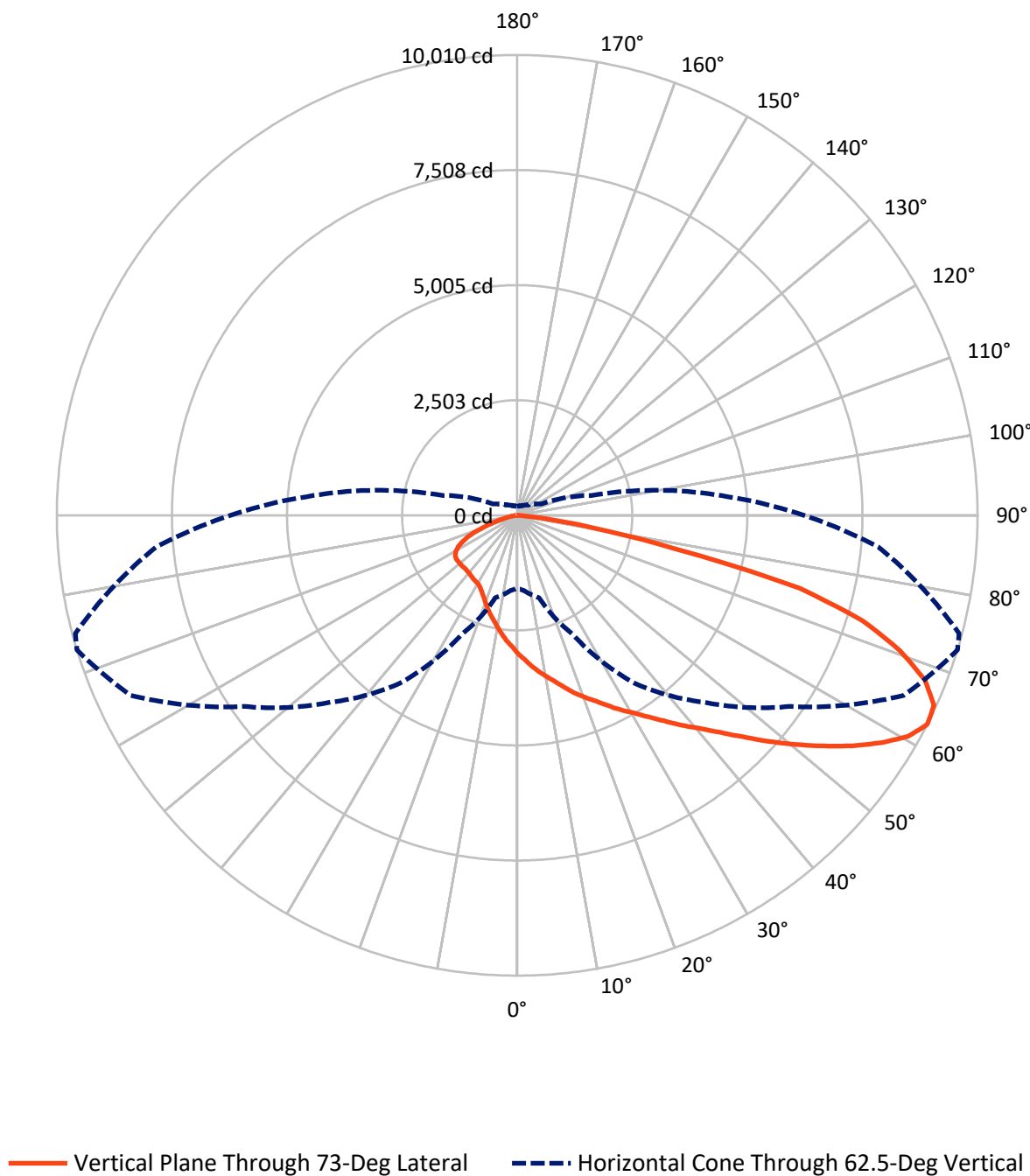
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2467.5	0.0	2467.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13450.5	0.0	13450.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	15918.0	0.0	15918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.8
10°-20°	878.7	5.5
20°-30°	1462.5	9.2
30°-40°	2206.7	13.9
40°-50°	3084.4	19.4
50°-60°	3407.0	21.4
60°-70°	2967.9	18.6
70°-80°	1499.2	9.4
80°-90°	120.3	0.8
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°	15918.0	100.0
0°-180°	15918.0	100.0

Coefficient of Utilization



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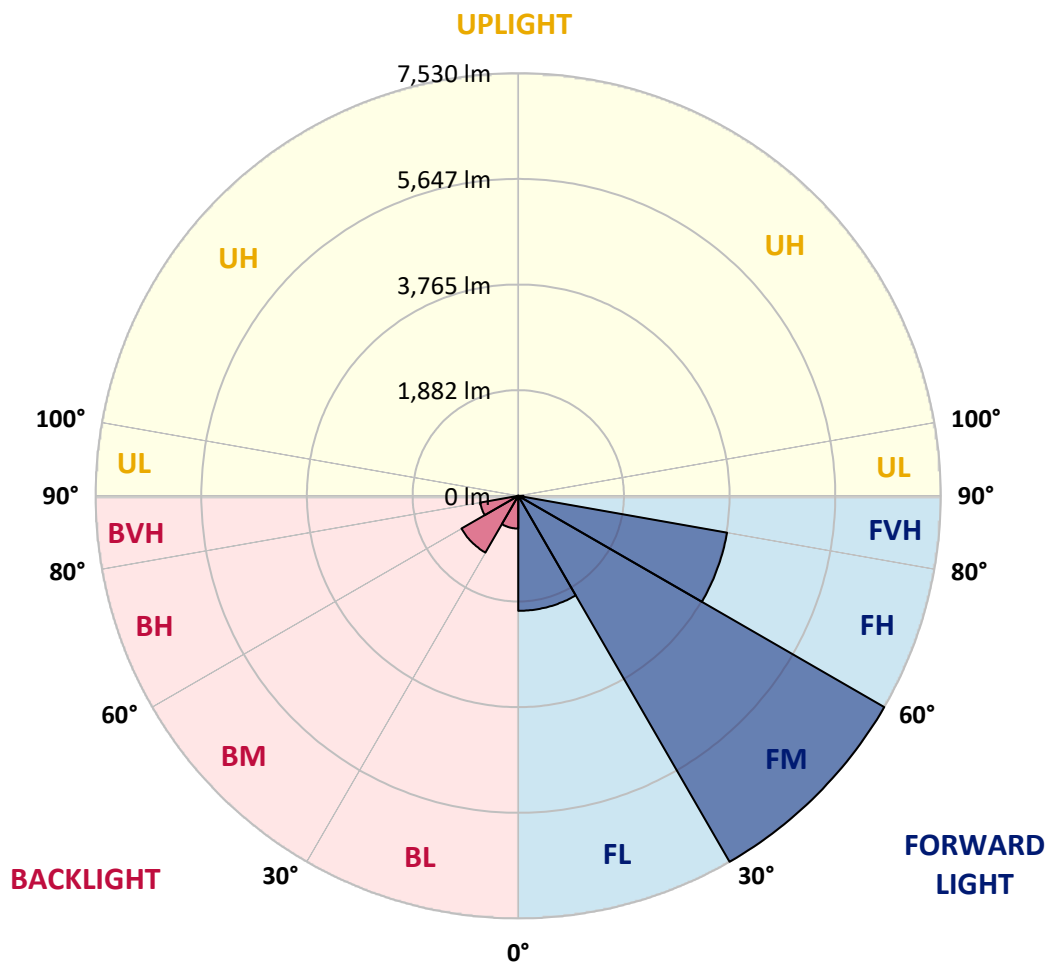
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2049.1	12.9			
FM	(30°-60°)	7529.8	47.3			
FH	(60°-80°)	3778.4	23.7			G2/5000
FVH	(80°-90°)	93.1	0.6			G1/100
BL	(0°-30°)	583.2	3.7	B2/1000		
BM	(30°-60°)	1168.4	7.3	B2/2500		
BH	(60°-80°)	688.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3430.3	3468.5	3447.7	3461.5	3392.2	3347.1	3295.1	3194.5	3139.0	3132.0	3066.1
5°	3933.3	3974.9	3940.2	3929.8	3808.4	3704.3	3586.4	3409.5	3291.6	3270.8	3125.1
7.5°	4436.2	4474.3	4432.7	4401.5	4238.5	4054.7	3881.2	3621.1	3437.3	3402.6	3173.7
10°	4790.0	4824.7	4793.4	4762.2	4592.3	4405.0	4158.7	3818.8	3569.1	3513.6	3204.9
12.5°	5057.0	5077.9	5064.0	5036.2	4876.7	4675.5	4439.7	4040.8	3718.2	3648.8	3253.4
15°	5275.6	5310.2	5292.9	5272.1	5119.5	4918.3	4692.9	4273.2	3891.6	3804.9	3326.3
17.5°	5421.2	5445.5	5449.0	5449.0	5313.7	5116.0	4897.5	4484.7	4065.1	3954.1	3395.6
20°	5487.1	5514.9	5532.2	5560.0	5449.0	5279.0	5057.0	4665.1	4228.1	4103.2	3461.5
22.5°	5518.3	5542.6	5587.7	5650.2	5560.0	5417.8	5213.1	4831.6	4391.1	4259.3	3537.8
25°	5542.6	5573.8	5639.7	5757.7	5695.2	5573.8	5397.0	5022.4	4585.3	4450.1	3648.8
27.5°	5608.5	5646.7	5709.1	5851.3	5775.0	5716.1	5591.2	5227.0	4790.0	4651.2	3784.1
30°	5837.4	5868.7	5865.2	5955.4	5861.7	5844.4	5757.7	5424.7	4987.7	4848.9	3943.7
32.5°	6253.7	6284.9	6208.6	6173.9	5969.2	5972.7	5938.0	5636.3	5223.5	5081.3	4127.5
35°	6701.1	6735.8	6635.2	6576.2	6232.9	6132.3	6149.6	5899.9	5487.1	5344.9	4356.4
37.5°	7100.0	7141.6	7054.9	6968.2	6621.3	6388.9	6385.5	6194.7	5788.9	5643.2	4609.6
40°	7318.5	7367.0	7419.1	7370.5	7006.3	6749.7	6638.7	6496.5	6087.2	5938.0	4883.6
42.5°	7422.5	7557.8	7651.5	7620.2	7322.0	7061.8	6930.0	6812.1	6451.4	6305.7	5209.7
45°	7131.2	7134.7	7332.4	7502.3	7446.8	7273.4	7249.1	7165.9	6867.6	6728.8	5577.3
47.5°	6767.0	6739.3	6878.0	7179.7	7335.8	7380.9	7523.1	7557.8	7342.8	7204.0	5951.9
50°	5892.9	5910.3	6361.2	6794.7	7100.0	7391.3	7717.4	7960.2	7831.8	7700.0	6347.3
52.5°	4793.4	4835.1	5351.9	6305.7	6787.8	7287.3	7831.8	8362.5	8331.3	8206.4	6742.7
55°	3843.1	3909.0	4457.0	5490.6	6388.9	7054.9	7880.4	8730.2	8848.1	8733.6	7131.2
57.5°	2937.8	3007.2	3468.5	4529.8	5879.1	6676.8	7845.7	9052.7	9330.2	9257.4	7488.4
60°	2212.9	2282.3	2577.1	3673.1	5240.9	6253.7	7672.3	9264.3	9763.8	9687.5	7748.6
62.5°	1585.1	1640.6	1859.1	2858.0	4463.9	5750.7	7245.6	9267.8	10010.0	9947.6	7873.4
65°	1141.1	1141.1	1318.0	2039.5	3735.6	5147.2	6600.5	8841.1	9958.0	9940.7	7786.7
67.5°	822.0	829.0	971.2	1425.5	2979.4	4415.4	5764.6	8081.6	9555.7	9642.4	7474.6
70°	582.7	600.0	665.9	995.5	2251.0	3485.8	4869.7	7086.1	8830.7	8983.4	6871.1
72.5°	450.9	461.3	506.4	693.7	1644.1	2591.0	3881.2	5976.2	7863.0	8036.5	6049.0
75°	346.8	357.3	391.9	509.9	1179.3	1817.5	2757.4	4637.4	6340.4	6649.1	4859.3
77.5°	253.2	267.1	291.4	371.1	686.8	1155.0	1671.8	2608.3	3499.7	3645.4	2545.9
80°	117.9	135.3	170.0	239.3	371.1	544.6	593.1	1005.9	1682.2	1758.5	1380.5
82.5°	65.9	83.2	97.1	145.7	187.3	194.2	201.2	253.2	634.7	700.6	579.2
85°	31.2	41.6	45.1	62.4	62.4	55.5	65.9	48.6	104.1	124.9	121.4
87.5°	0.0	3.5	6.9	17.3	13.9	10.4	10.4	10.4	10.4	13.9	10.4
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°	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3034.9	2989.8	2885.8	2795.6	2736.6	2684.6	2615.2	2584.0	2528.5	2538.9	2507.7
5°	3052.3	2969.0	2785.2	2615.2	2490.4	2379.4	2258.0	2188.6	2112.3	2105.4	2081.1
7.5°	3062.7	2934.3	2670.7	2431.4	2240.6	2070.7	1907.7	1817.5	1723.8	1703.0	1682.2
10°	3052.3	2882.3	2552.8	2240.6	1987.4	1775.9	1592.0	1477.6	1380.5	1356.2	1335.4
12.5°	3062.7	2854.6	2441.8	2063.7	1762.0	1522.7	1314.6	1196.6	1106.4	1082.2	1068.3
15°	3086.9	2837.2	2348.2	1904.2	1560.8	1293.7	1089.1	988.5	915.7	891.4	884.5
17.5°	3107.8	2819.9	2247.6	1748.1	1359.6	1092.6	915.7	832.4	770.0	745.7	738.8
20°	3135.5	2795.6	2147.0	1599.0	1182.8	933.0	776.9	704.1	655.5	638.2	634.7
22.5°	3159.8	2778.3	2053.3	1449.8	1019.7	804.7	672.9	613.9	579.2	561.9	561.9
25°	3222.2	2785.2	1973.6	1311.1	898.3	704.1	593.1	548.0	520.3	509.9	509.9
27.5°	3295.1	2812.9	1911.1	1193.2	794.3	627.8	537.6	499.5	485.6	471.7	475.2
30°	3399.1	2868.4	1869.5	1096.0	718.0	568.8	492.5	464.8	450.9	447.4	447.4
32.5°	3530.9	2958.6	1866.0	1033.6	662.5	523.7	461.3	437.0	430.1	426.6	426.6
35°	3687.0	3038.4	1845.2	1005.9	627.8	492.5	437.0	419.7	416.2	416.2	416.2
37.5°	3874.3	3170.2	1831.4	967.7	610.5	475.2	419.7	405.8	405.8	405.8	405.8
40°	4068.5	3277.7	1810.5	933.0	603.5	464.8	409.3	391.9	391.9	391.9	391.9
42.5°	4300.9	3433.8	1803.6	915.7	593.1	457.8	395.4	374.6	378.1	378.1	381.5
45°	4581.9	3610.7	1800.1	898.3	589.6	450.9	381.5	357.3	360.7	357.3	357.3
47.5°	4866.3	3815.3	1810.5	887.9	586.2	444.0	371.1	339.9	339.9	336.4	336.4
50°	5164.6	4002.6	1817.5	877.5	579.2	430.1	353.8	326.0	319.1	312.2	315.6
52.5°	5445.5	4176.0	1821.0	860.2	558.4	409.3	339.9	308.7	298.3	287.9	291.4
55°	5726.5	4342.5	1827.9	839.4	530.7	388.5	322.6	291.4	277.5	263.6	263.6
57.5°	5979.7	4488.2	1810.5	787.3	499.5	367.7	305.2	270.5	249.7	235.9	235.9
60°	6153.1	4592.3	1758.5	711.0	457.8	343.4	287.9	249.7	225.5	215.0	215.0
62.5°	6236.3	4609.6	1664.9	586.2	405.8	319.1	267.1	228.9	208.1	201.2	201.2
65°	6156.5	4533.3	1519.2	440.5	350.3	291.4	246.3	211.6	190.8	173.4	173.4
67.5°	5879.1	4318.3	1318.0	333.0	298.3	263.6	225.5	194.2	170.0	156.1	156.1
70°	5320.6	3870.8	1019.7	267.1	253.2	228.9	204.6	173.4	152.6	135.3	135.3
72.5°	4588.8	3281.2	718.0	215.0	215.0	194.2	173.4	152.6	131.8	117.9	117.9
75°	3520.5	2427.9	482.1	173.4	176.9	163.0	142.2	124.9	111.0	100.6	100.6
77.5°	1921.5	1200.1	294.8	128.3	131.8	124.9	111.0	100.6	93.6	83.2	83.2
80°	933.0	527.2	170.0	90.2	93.6	90.2	83.2	72.8	72.8	65.9	65.9
82.5°	391.9	197.7	90.2	62.4	62.4	55.5	52.0	52.0	52.0	48.6	48.6
85°	97.1	38.2	38.2	34.7	34.7	34.7	31.2	31.2	31.2	24.3	27.7
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	10.4	3.5	0.0	0.0	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)