

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: P1211165

Luminaire Tested: **ARCH4-190-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28878 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 190
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



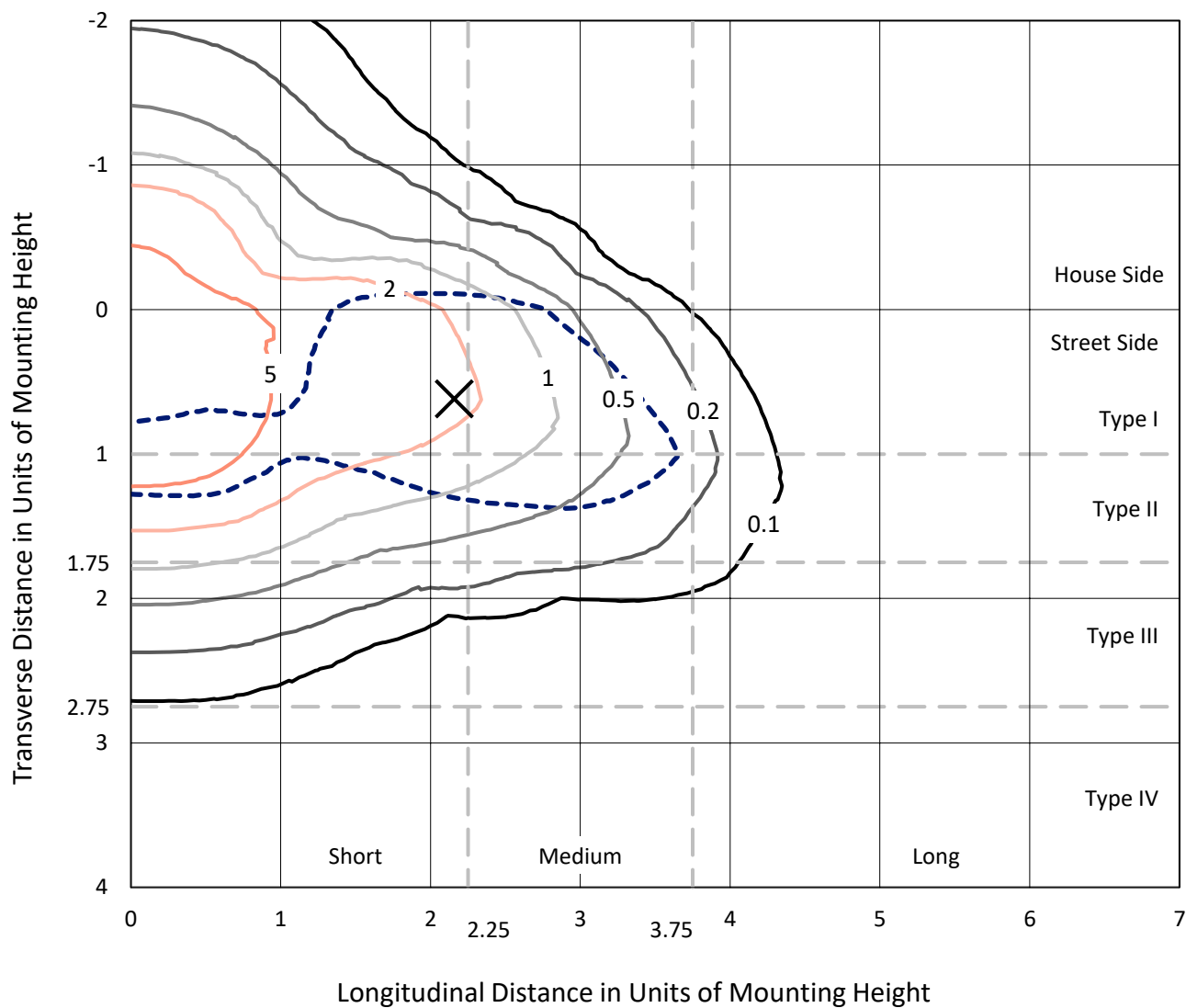
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

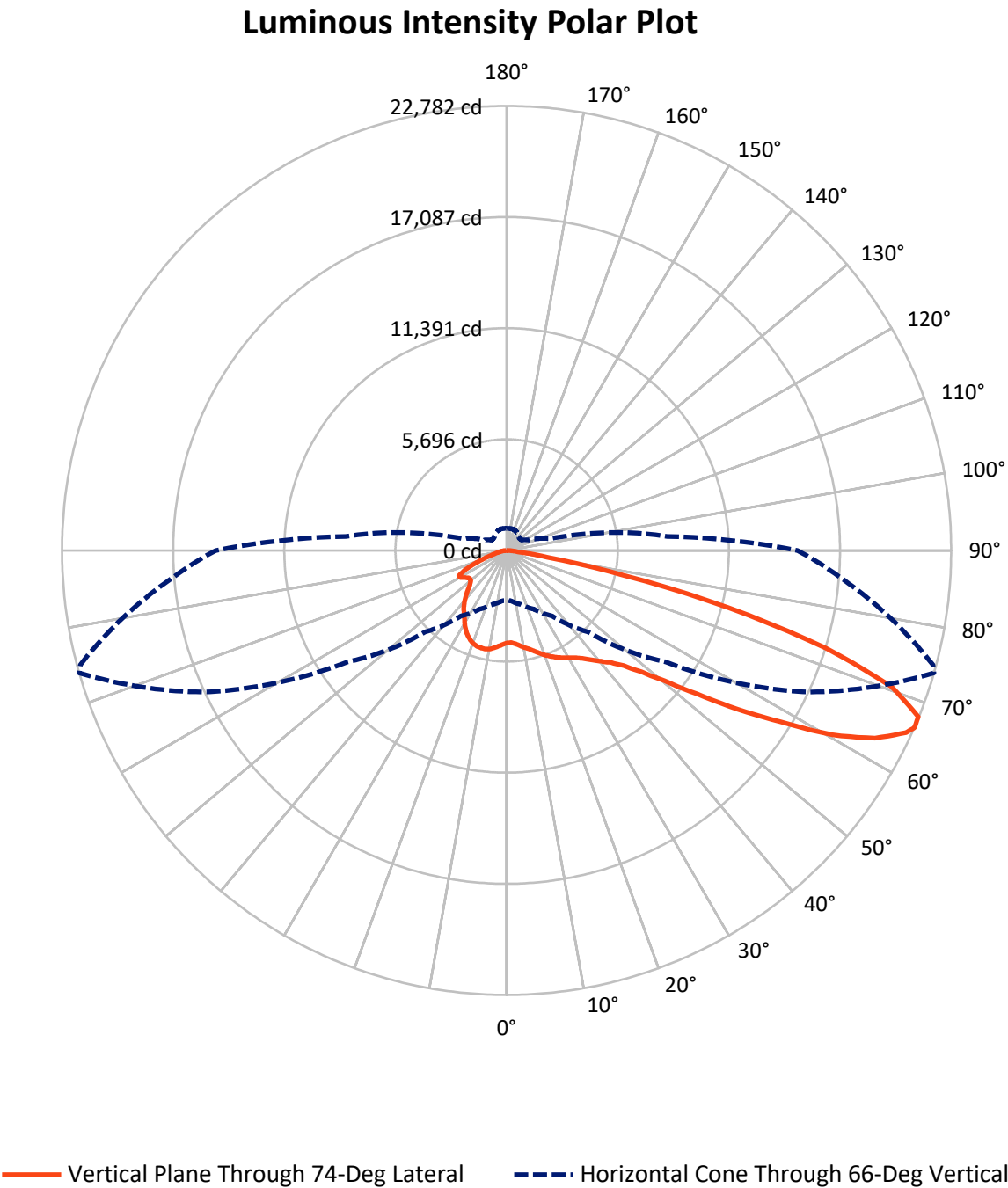
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7032.6	0.0	7032.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	21845.4	0.0	21845.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	28878.0	0.0	28878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	1.6
10°-20°	1388.7	4.8
20°-30°	2606.0	9.0
30°-40°	4008.6	13.9
40°-50°	5391.9	18.7
50°-60°	6376.5	22.1
60°-70°	5898.6	20.4
70°-80°	2481.5	8.6
80°-90°	274.6	1.0
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°	28878.0	100.0
0°-180°	28878.0	100.0

Coefficient of Utilization



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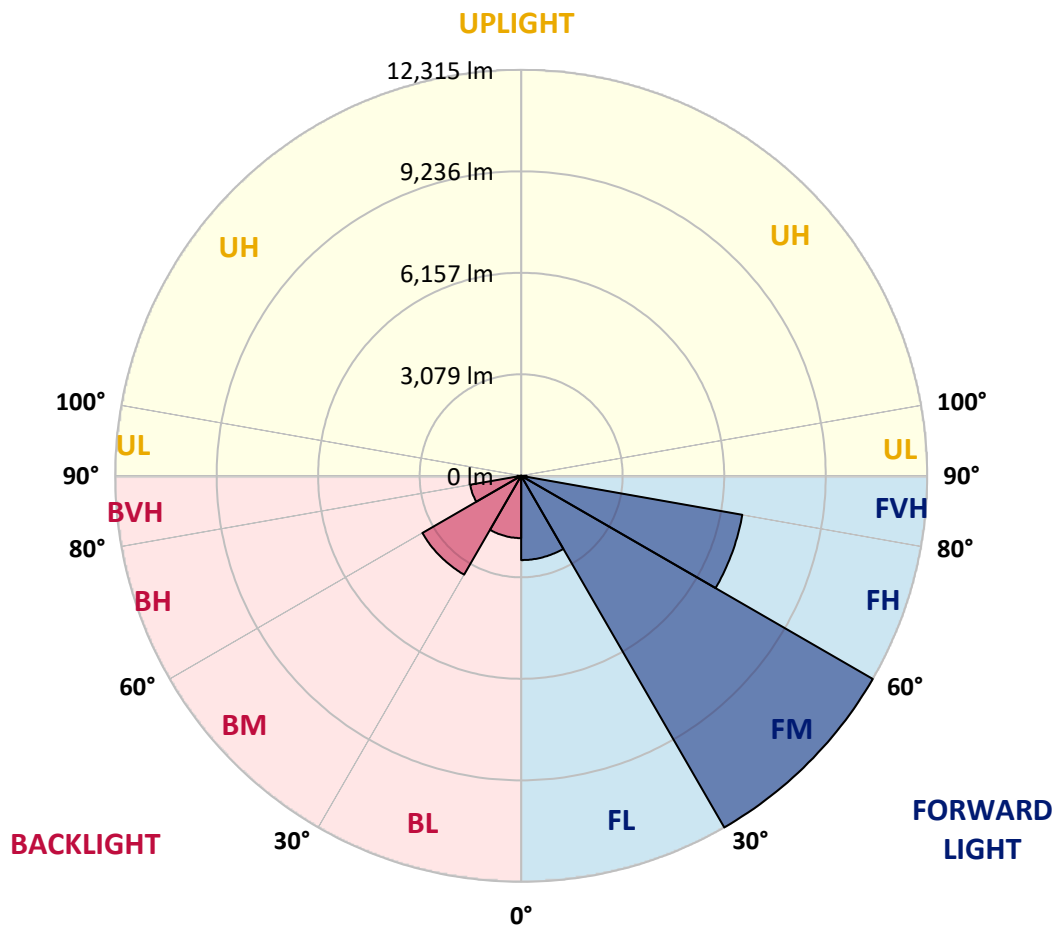
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2556.1	8.9			
FM	(30°-60°)	12314.8	42.6			
FH	(60°-80°)	6810.2	23.6			G3/7500
FVH	(80°-90°)	164.3	0.6			G2/225
BL	(0°-30°)	1890.2	6.5	B3/2500		
BM	(30°-60°)	3462.1	12.0	B3/5000		
BH	(60°-80°)	1569.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	110.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1
2.5°	4719.2	4711.8	4726.6	4748.9	4760.1	4741.5	4734.1	4730.3	4730.3	4719.2	4737.8
5°	4496.2	4492.5	4526.0	4566.8	4644.9	4700.6	4774.9	4819.5	4804.7	4782.4	4797.2
7.5°	4206.4	4199.0	4239.8	4317.9	4425.6	4548.3	4730.3	4871.6	4927.3	4919.9	4916.1
10°	4317.9	4310.5	4306.7	4284.4	4321.6	4440.5	4630.0	4879.0	5068.5	5072.2	5075.9
12.5°	4704.3	4722.9	4704.3	4633.7	4552.0	4507.4	4618.9	4897.6	5187.4	5209.7	5302.6
15°	5232.0	5213.4	5176.3	5094.5	4968.2	4834.4	4752.6	4983.0	5358.3	5376.9	5581.3
17.5°	5696.5	5711.3	5689.1	5611.0	5462.4	5287.7	5038.8	5131.7	5540.4	5592.4	5878.6
20°	6201.8	6261.3	6231.6	6135.0	6012.3	5752.2	5440.1	5347.2	5741.1	5778.2	6187.0
22.5°	6785.2	6848.4	6792.7	6699.8	6599.4	6279.9	5878.6	5611.0	5908.3	5986.3	6484.3
25°	7483.8	7543.3	7491.3	7346.3	7220.0	6829.8	6350.5	5908.3	6071.8	6157.3	6725.8
27.5°	8037.5	8082.1	8130.4	8044.9	7851.7	7446.7	6841.0	6216.7	6235.3	6324.5	6948.7
30°	8531.7	8643.2	8684.1	8695.2	8531.7	8078.4	7342.6	6536.3	6376.5	6469.4	7171.7
32.5°	9208.0	9375.2	9308.3	9375.2	9278.6	8672.9	7862.9	6867.0	6558.6	6644.0	7383.5
35°	10196.4	10330.2	10155.6	10103.5	9947.5	9274.9	8364.5	7208.9	6800.1	6893.0	7584.2
37.5°	11259.2	11411.5	11158.9	10950.8	10653.5	9869.4	8795.5	7658.5	7134.5	7208.9	7770.0
40°	12188.2	12314.5	12095.3	11820.3	11322.4	10393.4	9167.1	7974.3	7469.0	7561.9	7985.5
42.5°	13046.5	13128.3	12883.0	12619.2	11954.1	10865.3	9568.5	8308.8	7859.1	7948.3	8160.1
45°	13916.1	13979.2	13637.4	13262.1	12481.7	11296.4	10010.7	8777.0	8431.4	8550.3	8442.5
47.5°	14072.1	14090.7	14031.3	13778.6	12897.9	11708.8	10556.9	9405.0	9304.6	9434.7	8929.3
50°	12990.8	13158.0	13525.9	13774.9	13065.1	12054.4	11103.1	10304.2	10508.6	10675.8	9940.0
52.5°	10891.3	11051.1	11902.0	12845.9	12663.8	12132.4	11690.2	11445.0	12206.8	12407.4	11314.9
55°	8676.6	8817.8	9717.1	11077.1	11367.0	11775.7	12318.2	12901.6	14373.1	14506.9	12823.6
57.5°	7145.7	7223.7	7866.6	9174.6	9639.1	10634.9	12656.4	14633.2	16576.7	16781.0	14135.3
60°	5860.0	5945.4	6424.8	7502.4	8119.3	9003.6	12388.8	16342.6	19207.5	19207.5	15818.6
62.5°	4410.8	4485.1	4931.0	5774.5	6811.3	7621.3	11534.2	17475.9	21191.8	21102.6	17037.4
65°	3028.5	3087.9	3411.2	3972.3	4905.0	6495.4	10367.4	17490.8	22507.2	22388.3	17557.7
66°	2541.7	2593.7	2868.7	3322.0	4106.1	5893.4	9954.9	17174.9	22782.2	22615.0	17338.4
67.5°	2006.6	2043.7	2225.8	2493.4	3009.9	4771.2	9304.6	16279.4	22756.2	22655.9	16781.0
70°	1434.3	1460.4	1594.1	1649.9	1779.9	2760.9	7390.9	14257.9	20931.7	20961.4	14588.6
72.5°	1111.1	1151.9	1233.7	1244.8	1215.1	1467.8	4485.1	11894.6	17122.9	17111.7	10828.2
75°	895.5	917.8	958.7	981.0	973.6	947.6	1898.8	8873.6	11786.9	11924.3	6064.4
77.5°	706.0	702.3	739.5	769.2	791.5	743.2	869.5	5202.3	6179.6	6004.9	2277.9
80°	520.2	520.2	572.2	583.4	616.8	624.3	579.7	2006.6	2121.8	1928.6	590.8
82.5°	341.9	341.9	397.6	405.0	438.5	486.8	419.9	602.0	587.1	557.4	267.5
85°	185.8	178.4	196.9	223.0	241.5	286.1	252.7	301.0	308.4	304.7	178.4
87.5°	37.2	33.4	52.0	59.5	66.9	89.2	81.7	122.6	170.9	167.2	78.0
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°	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1	4734.1
2.5°	4763.8	4760.1	4801.0	4849.3	4905.0	4938.4	4953.3	4979.3	4960.7	4968.2	4990.5
5°	4834.4	4845.5	4905.0	4968.2	4994.2	4975.6	4934.7	4919.9	4886.4	4879.0	4871.6
7.5°	4938.4	4957.0	5016.5	5031.3	4953.3	4823.2	4730.3	4678.3	4622.6	4607.7	4600.3
10°	5109.4	5120.5	5135.4	4983.0	4789.8	4615.2	4500.0	4451.7	4414.5	4384.8	4392.2
12.5°	5324.9	5317.5	5202.3	4886.4	4611.4	4433.1	4355.0	4325.3	4299.3	4280.7	4277.0
15°	5596.2	5544.1	5213.4	4752.6	4444.2	4295.6	4239.8	4228.7	4199.0	4199.0	4195.3
17.5°	5871.1	5737.4	5206.0	4611.4	4284.4	4202.7	4169.2	4161.8	4154.4	4150.7	4161.8
20°	6146.1	5908.3	5146.5	4436.8	4173.0	4124.7	4117.2	4120.9	4113.5	4124.7	4117.2
22.5°	6387.6	6019.8	5035.1	4251.0	4094.9	4091.2	4072.6	4080.1	4106.1	4109.8	4120.9
25°	6573.4	6060.6	4871.6	4080.1	4039.2	4031.8	4054.1	4083.8	4106.1	4109.8	4128.4
27.5°	6725.8	6038.3	4667.2	3946.3	3942.6	3983.5	4050.3	4061.5	4065.2	4065.2	4050.3
30°	6841.0	5990.0	4407.1	3797.7	3816.2	3916.6	3979.7	3979.7	3950.0	3942.6	3964.9
32.5°	6867.0	5926.9	4124.7	3645.3	3675.0	3793.9	3872.0	3846.0	3812.5	3812.5	3827.4
35°	6889.3	5841.4	3898.0	3437.2	3481.8	3623.0	3697.3	3645.3	3608.1	3597.0	3593.3
37.5°	6881.9	5808.0	3693.6	3173.4	3232.8	3370.3	3418.6	3370.3	3314.6	3288.6	3322.0
40°	6889.3	5785.7	3437.2	2883.5	2943.0	3024.7	3087.9	3050.8	2998.7	2931.8	2965.3
42.5°	6933.9	5815.4	3154.8	2601.1	2601.1	2645.7	2753.5	2727.5	2601.1	2575.1	2604.9
45°	7171.7	5975.2	2872.4	2318.7	2277.9	2307.6	2419.1	2307.6	2229.5	2229.5	2255.6
47.5°	7747.7	6272.4	2623.4	2069.8	1973.1	2032.6	2062.3	1958.3	1898.8	1884.0	1910.0
50°	8921.9	6867.0	2474.8	1865.4	1746.5	1791.1	1772.5	1768.8	1709.3	1716.7	1731.6
52.5°	10705.5	8026.4	2430.2	1765.1	1616.4	1627.6	1609.0	1616.4	1605.3	1642.4	1653.6
55°	12648.9	9248.9	2485.9	1779.9	1527.2	1449.2	1456.6	1493.8	1538.4	1597.8	1609.0
57.5°	14101.9	9862.0	2630.9	1880.2	1415.8	1296.9	1315.4	1386.0	1471.5	1519.8	1545.8
60°	15183.2	9787.7	2842.7	1906.3	1282.0	1159.4	1192.8	1296.9	1371.2	1412.0	1438.1
62.5°	15536.2	9323.2	2894.7	1716.7	1107.3	1029.3	1111.1	1218.8	1252.3	1296.9	1315.4
65°	15246.4	8665.5	2515.7	1393.5	973.6	932.7	1051.6	1133.4	1177.9	1200.2	1204.0
66°	14904.5	8271.6	2311.3	1267.1	925.3	903.0	1029.3	1096.2	1140.8	1137.1	1140.8
67.5°	14153.9	7446.7	1980.6	1088.8	854.7	858.4	992.1	1036.7	1051.6	1040.5	1040.5
70°	11601.1	5243.1	1419.5	824.9	750.6	802.6	891.8	903.0	936.4	921.5	921.5
72.5°	7153.1	2575.1	951.3	631.7	668.9	750.6	746.9	784.1	862.1	884.4	899.2
75°	3515.2	1044.2	628.0	535.1	598.3	628.0	620.6	713.5	824.9	921.5	955.0
77.5°	1334.0	520.2	438.5	468.2	483.1	471.9	494.2	646.6	824.9	999.6	1033.0
80°	412.5	360.4	345.6	386.5	364.2	345.6	371.6	535.1	698.6	758.0	758.0
82.5°	249.0	282.4	267.5	263.8	245.2	249.0	267.5	382.7	538.8	564.8	564.8
85°	174.6	185.8	152.4	144.9	141.2	137.5	137.5	223.0	319.6	315.9	327.0
87.5°	66.9	74.3	55.7	55.7	52.0	37.2	29.7	37.2	37.2	26.0	18.6
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)