

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: P1211129

Luminaire Tested: **ARCH4-180-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211129
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: ARCH4-180-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26689 lumens
Efficiency: N/A
Efficacy: 148.3 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): 180
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



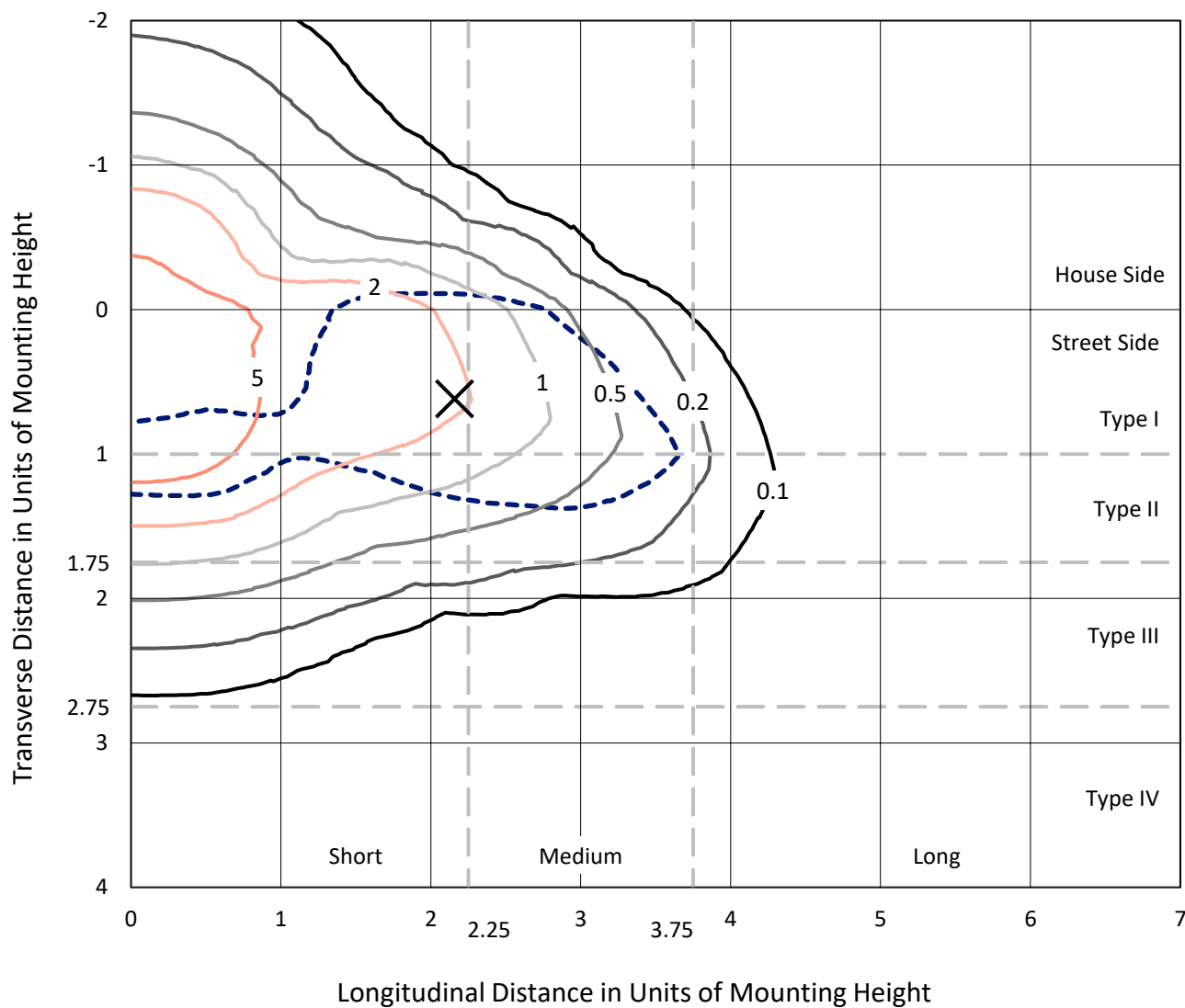
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Iso-Footcandle Lines of Horizontal Illumination

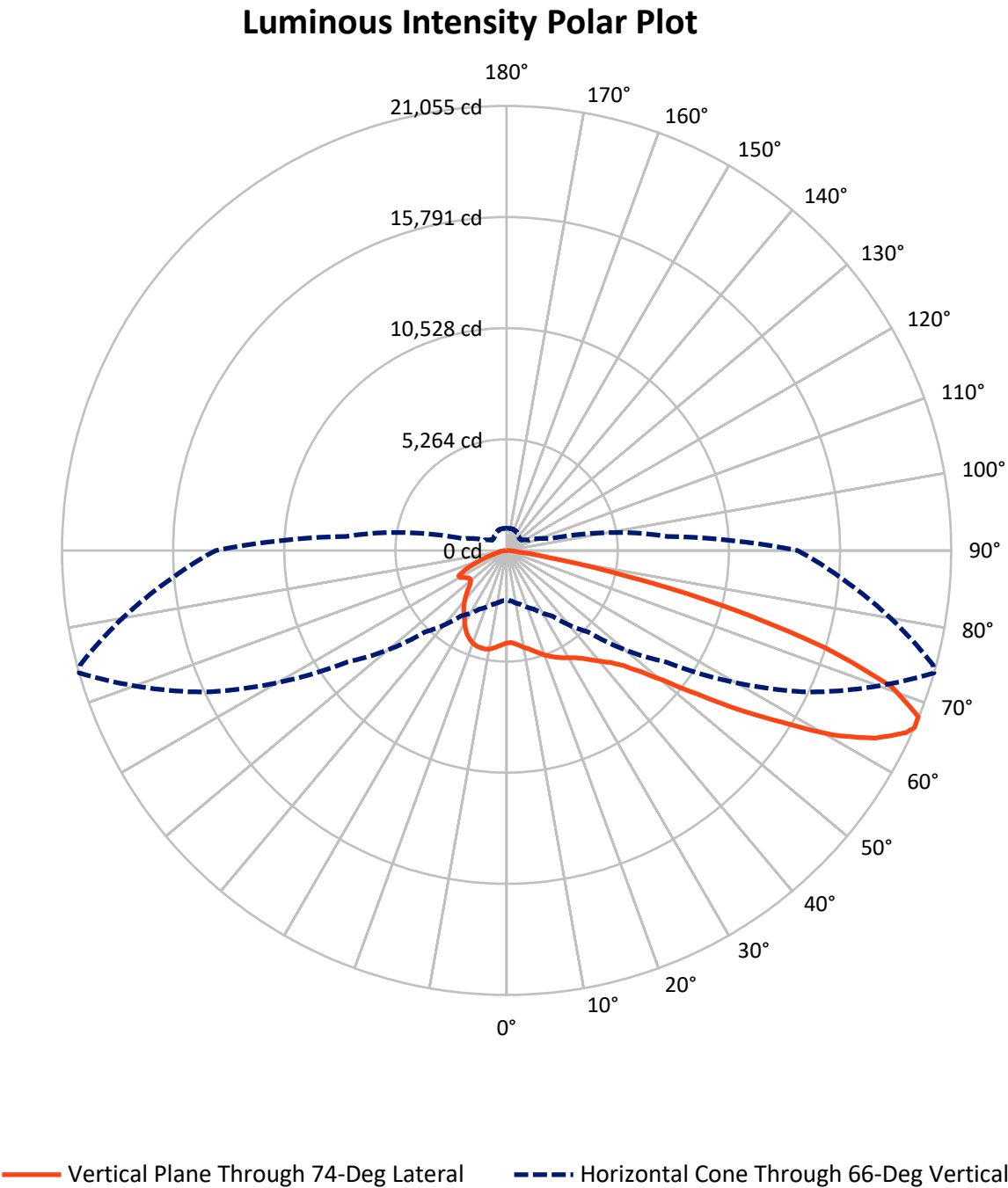
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6499.5	0.0	6499.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	20189.5	0.0	20189.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	26689.0	0.0	26689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	1.6
10°-20°	1283.5	4.8
20°-30°	2408.4	9.0
30°-40°	3704.7	13.9
40°-50°	4983.2	18.7
50°-60°	5893.2	22.1
60°-70°	5451.5	20.4
70°-80°	2293.4	8.6
80°-90°	253.8	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°	26689.0	100.0
0°-180°	26689.0	100.0

Coefficient of Utilization



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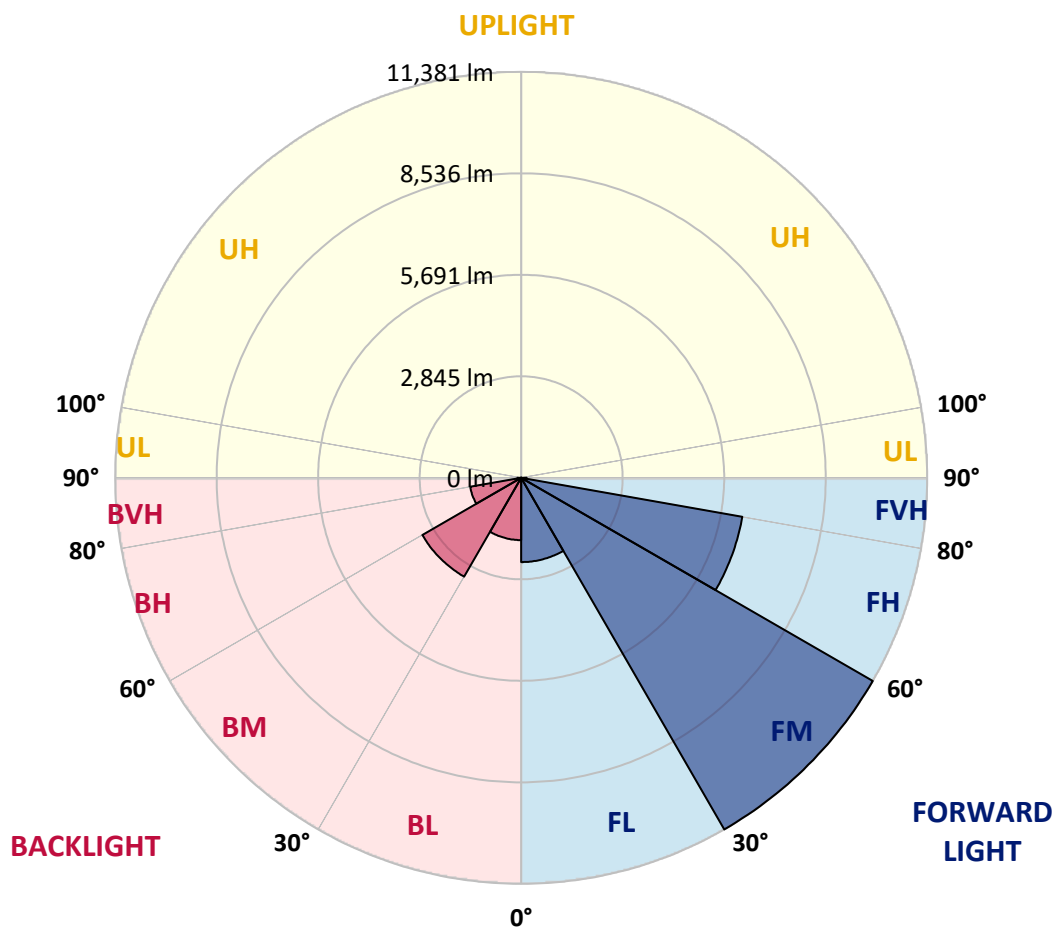
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2362.3	8.9			
FM	(30°-60°)	11381.4	42.6			
FH	(60°-80°)	6294.0	23.6			G3/7500
FVH	(80°-90°)	151.8	0.6			G2/225
BL	(0°-30°)	1746.9	6.5	B3/2500		
BM	(30°-60°)	3199.7	12.0	B3/5000		
BH	(60°-80°)	1450.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	101.9	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°	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2
2.5°	4361.5	4354.6	4368.3	4389.0	4399.3	4382.1	4375.2	4371.8	4371.8	4361.5	4378.6
5°	4155.4	4152.0	4182.9	4220.7	4292.8	4344.3	4413.0	4454.2	4440.5	4419.9	4433.6
7.5°	3887.6	3880.7	3918.5	3990.6	4090.2	4203.5	4371.8	4502.3	4553.8	4546.9	4543.5
10°	3990.6	3983.7	3980.3	3959.7	3994.0	4103.9	4279.1	4509.1	4684.3	4687.7	4691.2
12.5°	4347.7	4364.9	4347.7	4282.5	4206.9	4165.7	4268.8	4526.3	4794.2	4814.8	4900.7
15°	4835.4	4818.2	4783.9	4708.3	4591.6	4467.9	4392.4	4605.3	4952.2	4969.3	5158.2
17.5°	5264.7	5278.4	5257.8	5185.7	5048.3	4886.9	4656.8	4742.7	5120.4	5168.5	5433.0
20°	5731.7	5786.7	5759.2	5669.9	5556.6	5316.2	5027.7	4941.9	5305.9	5340.2	5718.0
22.5°	6270.9	6329.3	6277.8	6191.9	6099.2	5803.9	5433.0	5185.7	5460.4	5532.6	5992.7
25°	6916.5	6971.5	6923.4	6789.5	6672.7	6312.1	5869.1	5460.4	5611.5	5690.5	6216.0
27.5°	7428.2	7469.5	7514.1	7435.1	7256.5	6882.2	6322.4	5745.5	5762.6	5845.1	6422.0
30°	7885.0	7988.0	8025.8	8036.1	7885.0	7466.0	6786.0	6040.8	5893.1	5979.0	6628.1
32.5°	8510.0	8664.6	8602.8	8664.6	8575.3	8015.5	7266.8	6346.5	6061.4	6140.4	6823.8
35°	9423.5	9547.2	9385.8	9337.7	9193.4	8571.8	7730.5	6662.4	6284.6	6370.5	7009.3
37.5°	10405.7	10546.5	10313.0	10120.7	9845.9	9121.3	8128.8	7078.0	6593.7	6662.4	7181.0
40°	11264.3	11381.1	11178.4	10924.3	10464.1	9605.6	8472.3	7369.9	6902.8	6988.7	7380.2
42.5°	12057.6	12133.1	11906.5	11662.7	11047.9	10041.7	8843.2	7678.9	7263.4	7345.8	7541.6
45°	12861.2	12919.6	12603.6	12256.8	11535.6	10440.1	9251.8	8111.7	7792.3	7902.2	7802.6
47.5°	13005.4	13022.6	12967.7	12734.1	11920.2	10821.3	9756.7	8692.0	8599.3	8719.5	8252.5
50°	12006.1	12160.6	12500.6	12730.7	12074.8	11140.7	10261.5	9523.1	9712.0	9866.6	9186.6
52.5°	10065.7	10213.4	10999.9	11872.1	11703.9	11212.8	10804.1	10577.4	11281.5	11466.9	10457.2
55°	8018.9	8149.4	8980.5	10237.5	10505.3	10883.1	11384.5	11923.7	13283.6	13407.3	11851.5
57.5°	6604.0	6676.2	7270.3	8479.1	8908.4	9828.8	11697.0	13524.0	15320.1	15509.0	13063.8
60°	5415.8	5494.8	5937.8	6933.7	7503.8	8321.1	11449.7	15103.8	17751.6	17751.6	14619.5
62.5°	4076.4	4145.1	4557.2	5336.8	6295.0	7043.6	10659.9	16151.2	19585.4	19503.0	15746.0
65°	2798.9	2853.8	3152.6	3671.2	4533.2	6003.0	9581.5	16164.9	20801.2	20691.3	16226.8
66°	2349.0	2397.1	2651.2	3070.2	3794.8	5446.7	9200.3	15873.0	21055.3	20900.7	16024.1
67.5°	1854.5	1888.8	2057.1	2304.4	2781.7	4409.6	8599.3	15045.4	21031.3	20938.5	15509.0
70°	1325.6	1349.7	1473.3	1524.8	1645.0	2551.6	6830.7	13177.2	19345.0	19372.5	13482.8
72.5°	1026.8	1064.6	1140.2	1150.5	1123.0	1356.5	4145.1	10993.0	15825.0	15814.6	10007.4
75°	827.7	848.3	886.0	906.6	899.8	875.7	1754.9	8201.0	10893.4	11020.5	5604.7
77.5°	652.5	649.1	683.4	710.9	731.5	686.8	803.6	4807.9	5711.1	5549.7	2105.2
80°	480.8	480.8	528.9	539.2	570.1	577.0	535.7	1854.5	1960.9	1782.4	546.0
82.5°	315.9	315.9	367.5	374.3	405.2	449.9	388.1	556.3	542.6	515.1	247.3
85°	171.7	164.8	182.0	206.1	223.2	264.4	233.5	278.2	285.0	281.6	164.8
87.5°	34.3	30.9	48.1	54.9	61.8	82.4	75.6	113.3	158.0	154.5	72.1
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°	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2	4375.2
2.5°	4402.7	4399.3	4437.0	4481.7	4533.2	4564.1	4577.8	4601.9	4584.7	4591.6	4612.2
5°	4467.9	4478.2	4533.2	4591.6	4615.6	4598.4	4560.7	4546.9	4516.0	4509.1	4502.3
7.5°	4564.1	4581.3	4636.2	4650.0	4577.8	4457.6	4371.8	4323.7	4272.2	4258.5	4251.6
10°	4722.1	4732.4	4746.1	4605.3	4426.7	4265.3	4158.9	4114.2	4079.9	4052.4	4059.3
12.5°	4921.3	4914.4	4807.9	4516.0	4261.9	4097.0	4024.9	3997.4	3973.4	3956.2	3952.8
15°	5172.0	5123.9	4818.2	4392.4	4107.3	3970.0	3918.5	3908.2	3880.7	3880.7	3877.3
17.5°	5426.1	5302.5	4811.4	4261.9	3959.7	3884.1	3853.2	3846.3	3839.5	3836.0	3846.3
20°	5680.2	5460.4	4756.4	4100.5	3856.6	3812.0	3805.1	3808.6	3801.7	3812.0	3805.1
22.5°	5903.4	5563.5	4653.4	3928.8	3784.5	3781.1	3763.9	3770.8	3794.8	3798.3	3808.6
25°	6075.2	5601.2	4502.3	3770.8	3733.0	3726.1	3746.7	3774.2	3794.8	3798.3	3815.4
27.5°	6216.0	5580.6	4313.4	3647.2	3643.7	3681.5	3743.3	3753.6	3757.1	3757.1	3743.3
30°	6322.4	5536.0	4073.0	3509.8	3527.0	3619.7	3678.1	3678.1	3650.6	3643.7	3664.3
32.5°	6346.5	5477.6	3812.0	3369.0	3396.5	3506.4	3578.5	3554.4	3523.5	3523.5	3537.3
35°	6367.1	5398.6	3602.5	3176.7	3217.9	3348.4	3417.1	3369.0	3334.6	3324.3	3320.9
37.5°	6360.2	5367.7	3413.6	2932.8	2987.8	3114.9	3159.5	3114.9	3063.3	3039.3	3070.2
40°	6367.1	5347.1	3176.7	2665.0	2719.9	2795.5	2853.8	2819.5	2771.4	2709.6	2740.5
42.5°	6408.3	5374.6	2915.7	2404.0	2404.0	2445.2	2544.8	2520.7	2404.0	2379.9	2407.4
45°	6628.1	5522.2	2654.7	2143.0	2105.2	2132.7	2235.7	2132.7	2060.5	2060.5	2084.6
47.5°	7160.4	5797.0	2424.6	1912.9	1823.6	1878.5	1906.0	1809.8	1754.9	1741.2	1765.2
50°	8245.6	6346.5	2287.2	1724.0	1614.1	1655.3	1638.1	1634.7	1579.7	1586.6	1600.4
52.5°	9894.0	7417.9	2246.0	1631.3	1493.9	1504.2	1487.0	1493.9	1483.6	1517.9	1528.2
55°	11690.1	8547.8	2297.5	1645.0	1411.5	1339.4	1346.2	1380.6	1421.8	1476.7	1487.0
57.5°	13032.9	9114.5	2431.4	1737.7	1308.4	1198.5	1215.7	1281.0	1360.0	1404.6	1428.6
60°	14032.3	9045.8	2627.2	1761.8	1184.8	1071.5	1102.4	1198.5	1267.2	1305.0	1329.0
62.5°	14358.5	8616.5	2675.3	1586.6	1023.4	951.3	1026.8	1126.4	1157.3	1198.5	1215.7
65°	14090.7	8008.6	2325.0	1287.8	899.8	862.0	971.9	1047.4	1088.7	1109.3	1112.7
66°	13774.7	7644.6	2136.1	1171.1	855.1	834.5	951.3	1013.1	1054.3	1050.9	1054.3
67.5°	13081.0	6882.2	1830.4	1006.2	789.9	793.3	916.9	958.2	971.9	961.6	961.6
70°	10721.7	4845.7	1311.9	762.4	693.7	741.8	824.2	834.5	865.4	851.7	851.7
72.5°	6610.9	2379.9	879.2	583.8	618.2	693.7	690.3	724.6	796.7	817.3	831.1
75°	3248.8	965.0	580.4	494.5	552.9	580.4	573.5	659.4	762.4	851.7	882.6
77.5°	1232.9	480.8	405.2	432.7	446.5	436.1	456.8	597.6	762.4	923.8	954.7
80°	381.2	333.1	319.4	357.2	336.6	319.4	343.4	494.5	645.6	700.6	700.6
82.5°	230.1	261.0	247.3	243.8	226.7	230.1	247.3	353.7	498.0	522.0	522.0
85°	161.4	171.7	140.8	133.9	130.5	127.1	127.1	206.1	295.3	291.9	302.2
87.5°	61.8	68.7	51.5	51.5	48.1	34.3	27.5	34.3	34.3	24.0	17.2
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)