

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: P1211131

Luminaire Tested: **ARCH4-180-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26634 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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



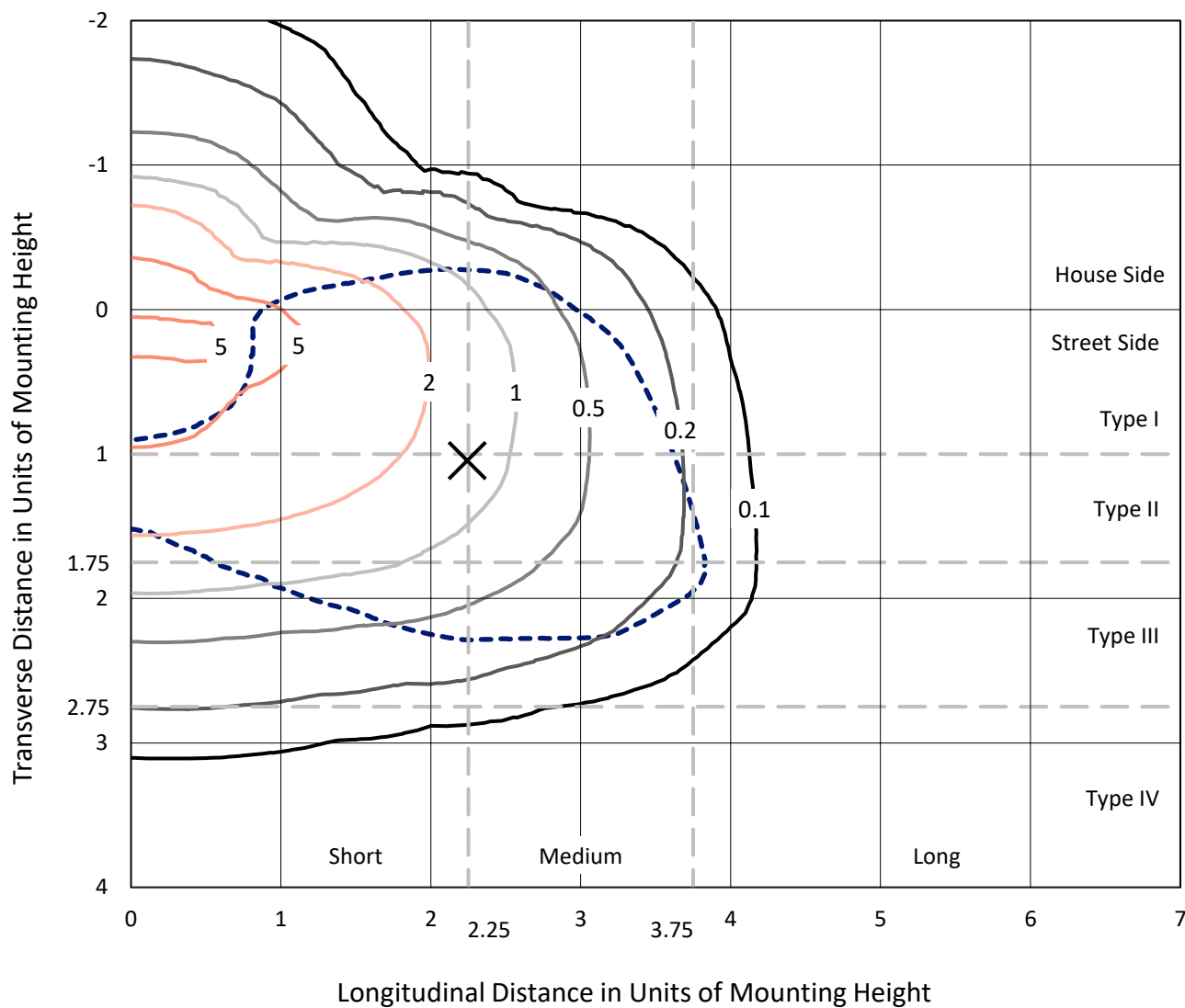
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

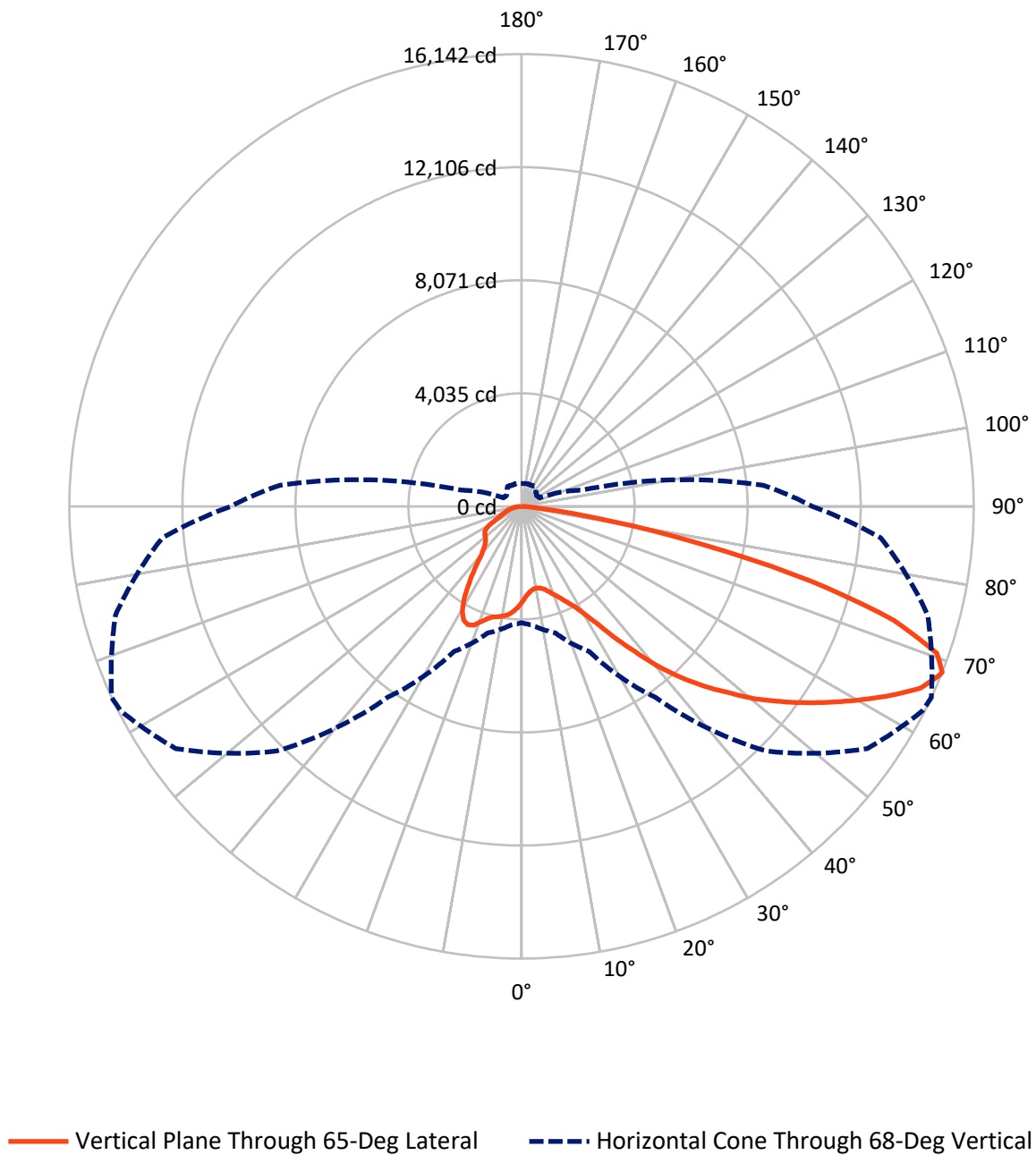


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6529.9	0.0	6529.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	20104.1	0.0	20104.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	26634.0	0.0	26634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	1.2
10°-20°	1059.1	4.0
20°-30°	1916.9	7.2
30°-40°	3015.4	11.3
40°-50°	4491.1	16.9
50°-60°	5891.5	22.1
60°-70°	6442.7	24.2
70°-80°	3188.0	12.0
80°-90°	304.1	1.1
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°	26634.0	100.0
0°-180°	26634.0	100.0

Coefficient of Utilization



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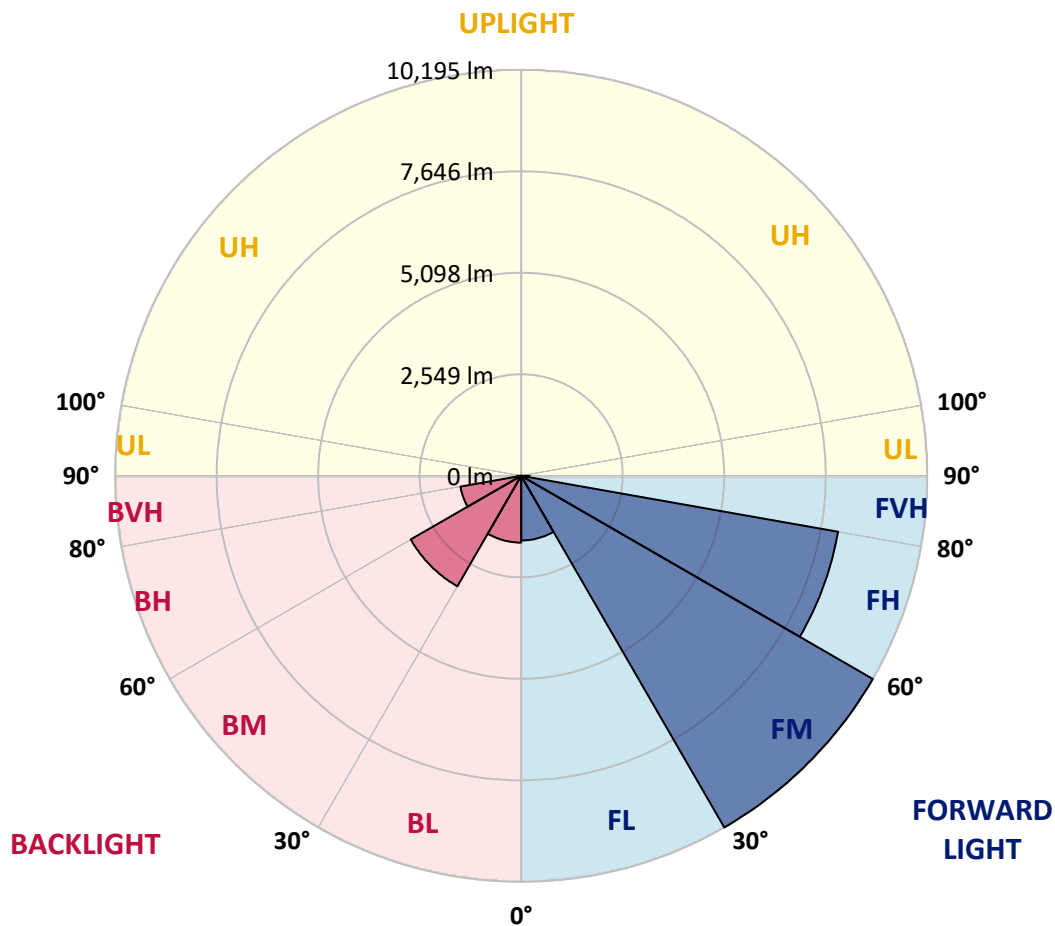
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1623.6	6.1			
FM	(30°-60°)	10195.1	38.3			
FH	(60°-80°)	8080.8	30.3			G4/12000
FVH	(80°-90°)	204.5	0.8			G2/225
BL	(0°-30°)	1677.6	6.3	B3/2500		
BM	(30°-60°)	3202.9	12.0	B3/5000		
BH	(60°-80°)	1549.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	99.6	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5
2.5°	2970.8	2963.9	2981.1	2998.2	3036.0	3080.7	3142.5	3194.0	3200.9	3297.0	3372.6
5°	2795.6	2785.3	2802.5	2823.1	2840.3	2895.2	2960.5	3036.0	3066.9	3207.7	3369.2
7.5°	2812.8	2809.3	2816.2	2809.3	2809.3	2833.4	2878.0	2953.6	2987.9	3156.2	3386.3
10°	2912.4	2919.2	2922.7	2902.1	2881.5	2871.2	2884.9	2936.4	2960.5	3159.7	3461.9
12.5°	3077.2	3087.5	3091.0	3053.2	3025.7	2981.1	2957.0	2977.6	2994.8	3194.0	3568.4
15°	3300.5	3307.3	3283.3	3259.3	3190.6	3135.6	3077.2	3060.1	3066.9	3266.1	3688.6
17.5°	3561.5	3551.2	3551.2	3492.8	3403.5	3317.6	3221.5	3207.7	3207.7	3382.9	3860.3
20°	3846.5	3856.8	3825.9	3746.9	3657.6	3523.7	3427.5	3365.7	3372.6	3516.8	4069.8
22.5°	4258.7	4275.8	4193.4	4080.1	3942.7	3788.2	3650.8	3551.2	3554.6	3692.0	4286.1
25°	4701.7	4708.6	4657.1	4505.9	4320.5	4100.7	3918.7	3791.6	3788.2	3887.8	4564.3
27.5°	5155.1	5186.0	5082.9	4938.7	4767.0	4492.2	4251.8	4080.1	4052.6	4186.5	4911.2
30°	5622.1	5659.9	5560.3	5419.5	5206.6	4973.0	4688.0	4488.8	4471.6	4650.2	5374.9
32.5°	6092.6	6102.9	6024.0	5907.2	5714.9	5495.1	5265.0	5045.1	5028.0	5319.9	5975.9
35°	6477.3	6508.2	6453.3	6425.8	6285.0	6082.3	5859.1	5732.0	5776.7	6151.0	6755.5
37.5°	6940.9	6971.9	6910.0	6903.2	6858.5	6683.4	6528.8	6539.1	6583.8	7092.1	7576.3
40°	7610.7	7645.0	7487.0	7418.3	7418.3	7246.6	7195.1	7438.9	7497.3	8019.3	8431.5
42.5°	8177.3	8232.3	8139.6	8094.9	7961.0	7840.8	7902.6	8246.0	8345.6	8905.4	9176.7
45°	8452.1	8493.3	8603.2	8733.7	8603.2	8393.7	8627.2	9015.3	9156.1	9722.8	9922.0
47.5°	8599.8	8637.5	8764.6	9114.9	9204.2	9029.1	9358.8	9843.0	9939.2	10533.3	10632.9
50°	8620.4	8740.6	8905.4	9255.7	9664.4	9688.5	10093.7	10684.5	10797.8	11330.1	11258.0
52.5°	8452.1	8500.2	8840.2	9430.9	9884.2	10296.4	10894.0	11491.5	11574.0	12078.8	11810.9
55°	8177.3	8246.0	8586.0	9389.7	10097.2	10873.3	11707.9	12284.9	12377.6	12806.9	12322.7
57.5°	7930.1	7964.4	8328.4	9269.5	10310.1	11450.3	12432.6	13112.6	13174.4	13445.7	12700.5
60°	7655.3	7693.1	8057.1	9011.9	10468.1	11886.5	13188.1	13947.1	14002.1	14118.9	13140.1
62.5°	6944.4	7044.0	7500.8	8586.0	10426.9	12384.5	13995.2	14771.4	14840.1	14713.0	13486.9
65°	5639.3	5780.1	6339.9	7621.0	10042.2	12707.3	14654.6	15530.4	15647.2	15159.5	13579.7
67.5°	4378.9	4478.5	4928.4	6048.0	8692.5	12545.9	15080.5	16052.4	16086.8	15087.4	13064.5
68°	4152.2	4251.8	4681.1	5718.3	8318.1	12353.6	15070.2	16066.2	16141.7	15008.4	12865.3
70°	3176.8	3290.2	3698.9	4530.0	6704.0	11130.9	14441.7	15736.5	15726.2	14053.6	11628.9
72.5°	1985.1	2050.3	2332.0	2857.4	4433.8	8469.3	12257.4	13878.5	13905.9	11457.2	8919.2
75°	1260.4	1260.4	1246.7	1384.1	2273.6	4825.3	9111.5	10684.5	10705.1	8022.8	5622.1
77.5°	1095.6	1064.7	917.0	776.2	906.7	1875.2	5392.0	6899.7	6786.4	4320.5	2668.5
80°	923.9	872.3	752.1	625.1	583.8	587.3	2070.9	3503.1	3352.0	1555.8	886.1
82.5°	666.3	621.6	566.7	491.1	449.9	350.3	432.7	1013.2	989.1	449.9	288.5
85°	360.6	326.3	319.4	322.8	271.3	216.4	182.0	223.2	223.2	195.8	164.9
87.5°	127.1	92.7	109.9	123.6	106.5	89.3	72.1	85.9	89.3	85.9	79.0
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°	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5
2.5°	3417.2	3451.6	3534.0	3606.1	3657.6	3702.3	3726.3	3736.6	3760.7	3764.1	3757.2
5°	3444.7	3534.0	3657.6	3764.1	3822.5	3846.5	3853.4	3856.8	3846.5	3853.4	3846.5
7.5°	3516.8	3630.2	3805.3	3898.1	3908.4	3870.6	3874.0	3860.3	3874.0	3887.8	3887.8
10°	3626.7	3771.0	3935.8	3970.2	3925.5	3904.9	3946.1	4028.6	4056.0	4093.8	4093.8
12.5°	3771.0	3942.7	4059.5	4028.6	3987.4	4056.0	4176.2	4258.7	4286.1	4299.9	4289.6
15°	3935.8	4121.3	4179.7	4076.6	4152.2	4299.9	4341.1	4293.0	4224.3	4193.4	4210.6
17.5°	4145.3	4299.9	4265.5	4196.9	4368.6	4389.2	4255.2	4100.7	3990.8	3949.6	3977.0
20°	4365.1	4499.1	4341.1	4372.0	4478.5	4258.7	4004.5	3805.3	3709.2	3692.0	3719.5
22.5°	4598.7	4684.5	4416.7	4574.6	4416.7	3970.2	3664.5	3561.5	3537.4	3564.9	3589.0
25°	4863.1	4852.8	4547.2	4636.5	4186.5	3616.4	3434.4	3427.5	3427.5	3444.7	3479.1
27.5°	5161.9	5000.5	4677.7	4554.0	3788.2	3324.5	3290.2	3293.6	3283.3	3286.7	3303.9
30°	5508.8	5199.7	4821.9	4282.7	3341.7	3104.7	3091.0	3080.7	3056.6	3049.8	3056.6
32.5°	5945.0	5409.2	4969.6	3836.2	2950.2	2878.0	2871.2	2816.2	2757.8	2751.0	2775.0
35°	6497.9	5790.4	5045.1	3276.4	2627.3	2623.9	2599.8	2514.0	2438.4	2438.4	2421.3
37.5°	7129.8	6281.5	5076.1	2730.4	2359.4	2376.6	2307.9	2198.0	2139.6	2105.3	2115.6
40°	7775.5	6841.3	5072.6	2253.0	2125.9	2129.3	2077.8	1943.9	1799.6	1713.8	1734.4
42.5°	8397.1	7349.6	4983.3	1998.8	1937.0	1926.7	1885.5	1703.5	1583.3	1514.6	1518.0
45°	8895.1	7875.1	4846.0	1847.7	1765.3	1782.5	1689.7	1579.8	1469.9	1408.1	1404.7
47.5°	9393.1	8273.5	4626.2	1755.0	1638.2	1607.3	1569.5	1494.0	1411.5	1342.9	1346.3
50°	9846.5	8613.5	4420.1	1693.2	1521.4	1442.5	1449.3	1404.7	1332.6	1270.7	1267.3
52.5°	10165.9	8836.7	4306.8	1658.8	1380.6	1294.8	1318.8	1294.8	1226.1	1181.4	1178.0
55°	10485.3	9008.5	4344.5	1614.2	1226.1	1157.4	1198.6	1191.7	1154.0	1140.2	1143.7
57.5°	10742.8	9139.0	4478.5	1531.7	1078.4	1037.2	1105.9	1085.3	1057.8	1061.2	1061.2
60°	10993.5	9307.3	4636.5	1342.9	951.3	954.8	1020.0	982.2	965.1	996.0	999.4
62.5°	11254.6	9489.3	4505.9	1068.1	841.4	865.5	941.0	910.1	917.0	961.6	975.4
65°	11223.7	9472.1	3671.4	875.8	745.3	793.3	906.7	896.4	899.8	917.0	923.9
67.5°	10591.7	8867.6	2524.3	745.3	676.6	735.0	879.2	838.0	841.4	831.1	834.6
68°	10378.8	8654.7	2225.5	724.7	662.8	721.2	865.5	827.7	831.1	820.8	817.4
70°	9218.0	7411.5	1408.1	638.8	614.8	683.4	796.8	783.0	779.6	772.7	772.7
72.5°	7026.8	5471.0	741.8	552.9	559.8	625.1	710.9	738.4	721.2	724.7	745.3
75°	4653.6	3290.2	515.2	473.9	491.1	535.8	631.9	686.9	669.7	680.0	669.7
77.5°	2462.5	1772.2	412.1	401.8	401.8	432.7	522.0	607.9	607.9	601.0	590.7
80°	807.1	625.1	329.7	316.0	322.8	340.0	419.0	498.0	508.3	494.6	487.7
82.5°	271.3	288.5	247.3	230.1	237.0	250.7	316.0	381.2	384.7	357.2	350.3
85°	168.3	192.3	154.5	151.1	151.1	154.5	192.3	209.5	192.3	171.7	178.6
87.5°	79.0	96.2	72.1	61.8	51.5	44.6	34.3	13.7	13.7	6.9	6.9
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)