

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: P1211029

Luminaire Tested: **ARCH4-150-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211029
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: ARCH4-150-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20929 lumens
Efficiency: N/A
Efficacy: 138.8 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): 150.8
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



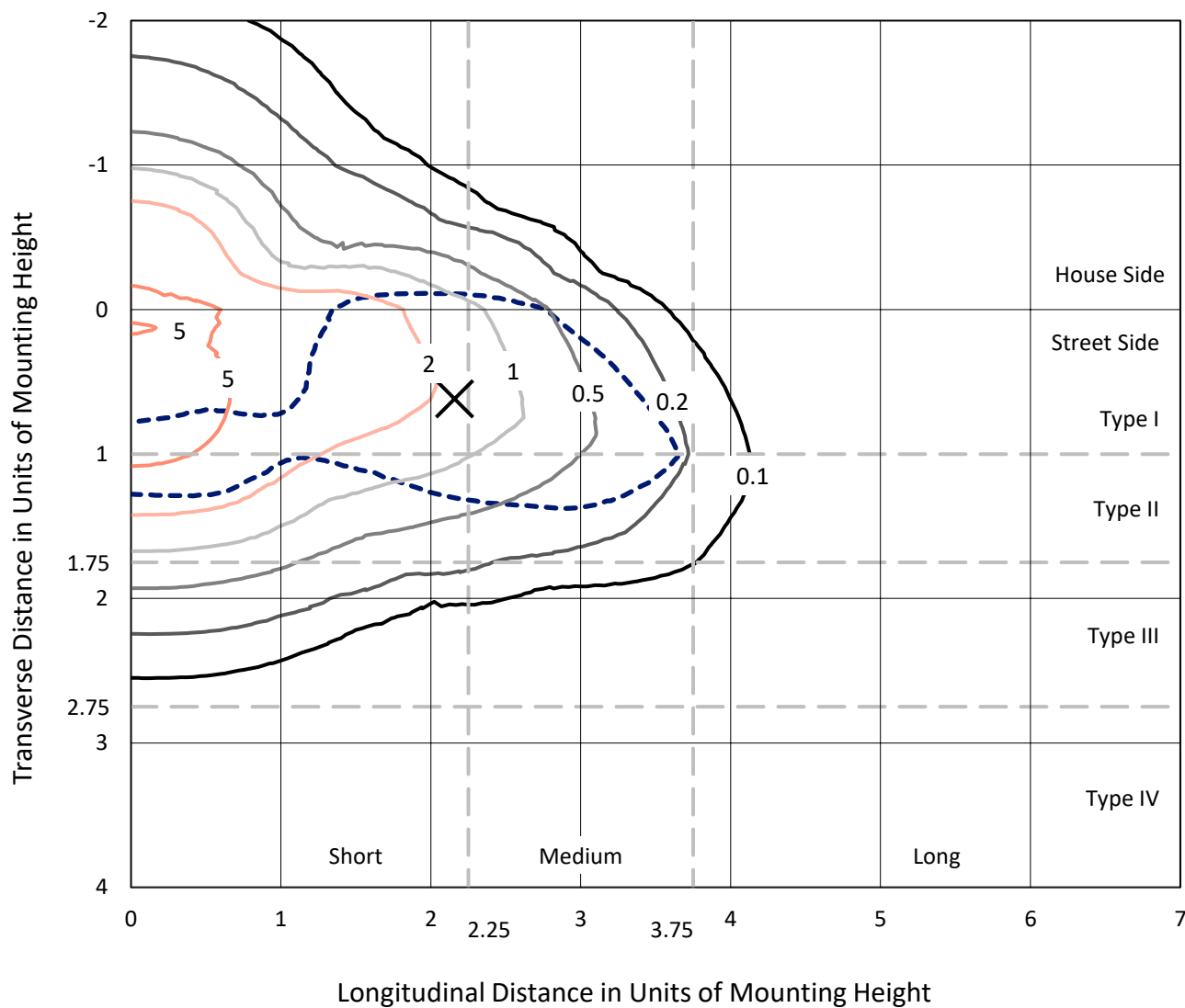
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

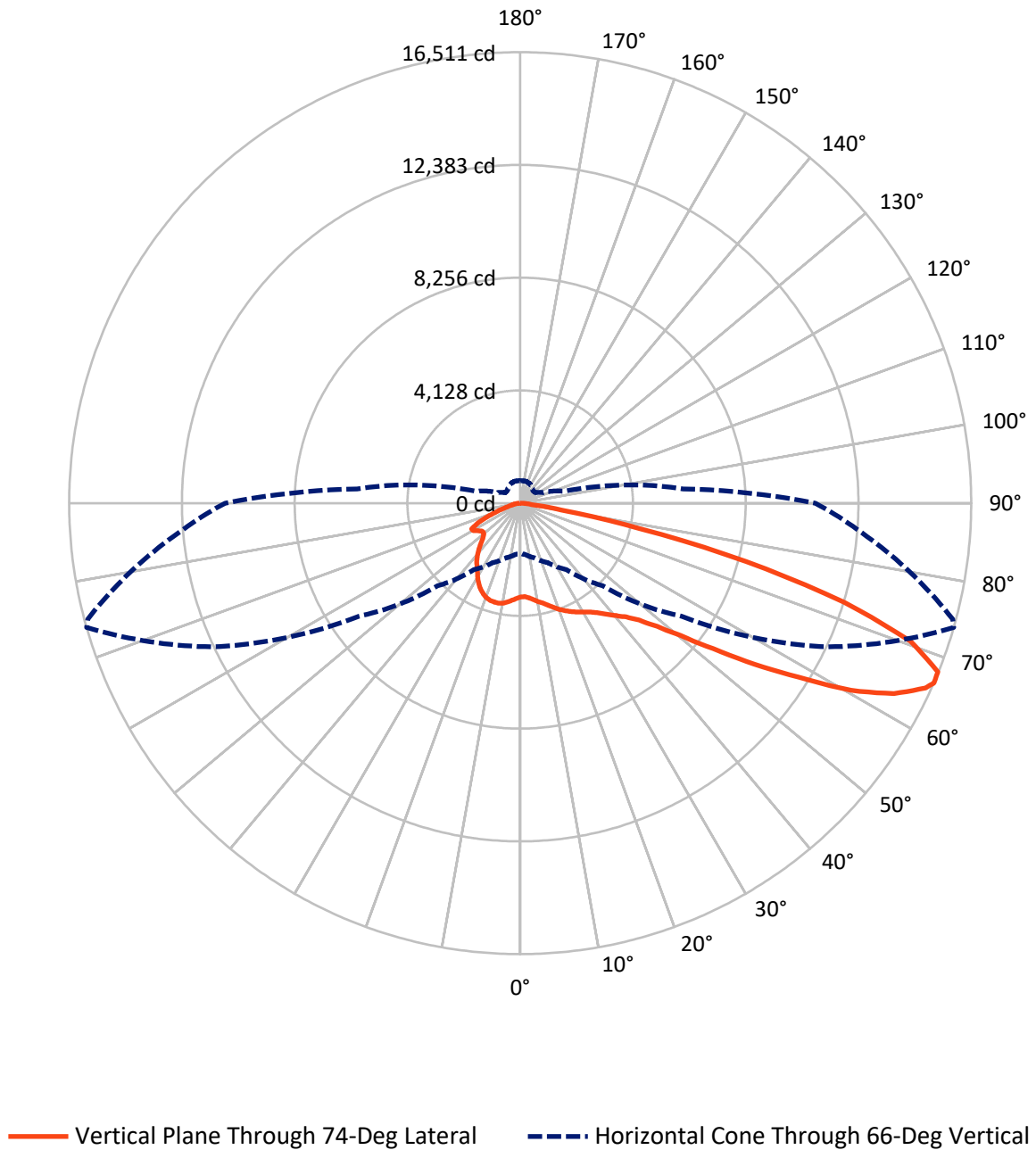
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	5096.8	0.0	5096.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15832.2	0.0	15832.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	20929.0	0.0	20929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	1.6
10°-20°	1006.5	4.8
20°-30°	1888.6	9.0
30°-40°	2905.2	13.9
40°-50°	3907.7	18.7
50°-60°	4621.3	22.1
60°-70°	4275.0	20.4
70°-80°	1798.5	8.6
80°-90°	199.0	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°	20929.0	100.0
0°-180°	20929.0	100.0

Coefficient of Utilization



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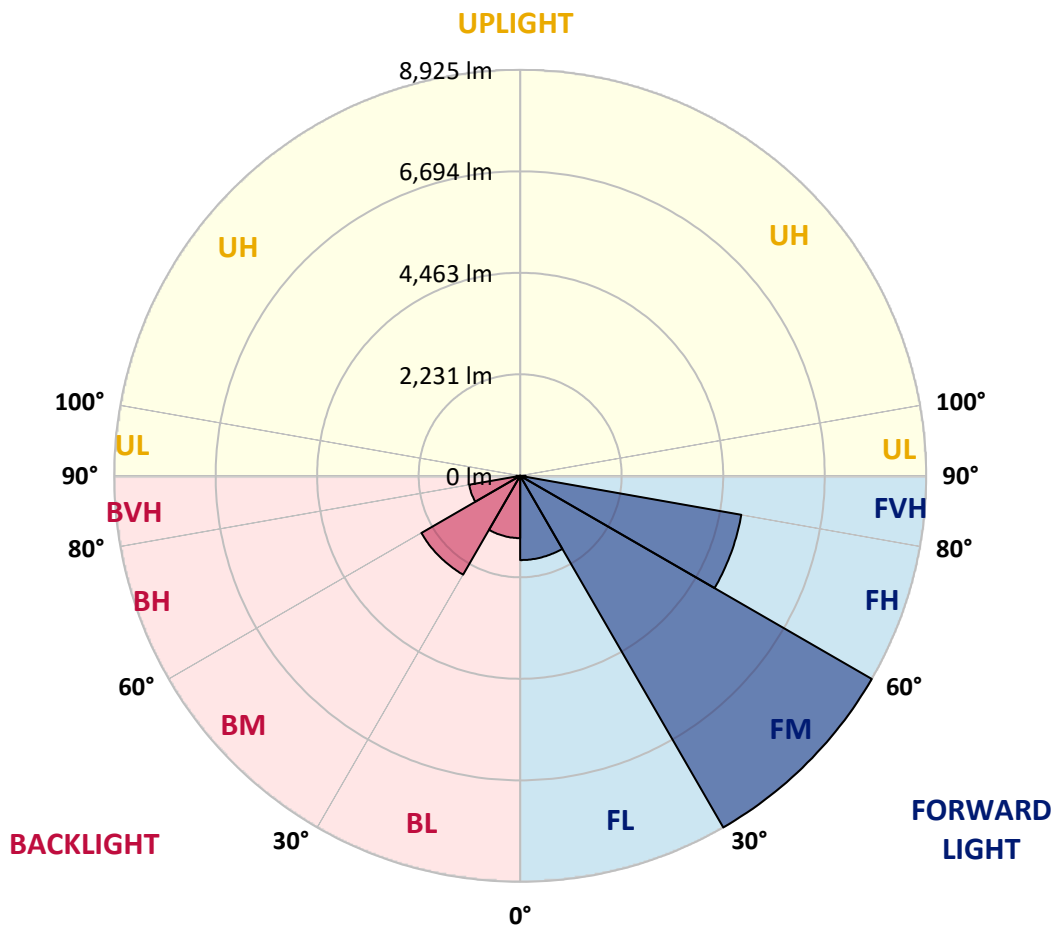
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1852.5	8.9			
FM	(30°-60°)	8925.0	42.6			
FH	(60°-80°)	4935.6	23.6			G2/5000
FVH	(80°-90°)	119.1	0.6			G2/225
BL	(0°-30°)	1369.9	6.5	B3/2500		
BM	(30°-60°)	2509.2	12.0	B3/5000		
BH	(60°-80°)	1137.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	79.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0
2.5°	3420.2	3414.8	3425.6	3441.7	3449.8	3436.3	3431.0	3428.3	3428.3	3420.2	3433.7
5°	3258.6	3255.9	3280.1	3309.8	3366.3	3406.7	3460.6	3492.9	3482.1	3466.0	3476.7
7.5°	3048.5	3043.2	3072.8	3129.3	3207.4	3296.3	3428.3	3530.6	3571.0	3565.6	3562.9
10°	3129.3	3124.0	3121.3	3105.1	3132.0	3218.2	3355.6	3536.0	3673.3	3676.0	3678.7
12.5°	3409.4	3422.9	3409.4	3358.2	3299.0	3266.7	3347.5	3549.5	3759.5	3775.7	3843.0
15°	3791.8	3778.4	3751.4	3692.2	3600.6	3503.7	3444.4	3611.4	3883.4	3896.9	4045.0
17.5°	4128.5	4139.2	4123.1	4066.5	3958.8	3832.2	3651.8	3719.1	4015.4	4053.1	4260.4
20°	4494.7	4537.8	4516.3	4446.2	4357.4	4168.9	3942.6	3875.3	4160.8	4187.7	4483.9
22.5°	4917.5	4963.3	4922.9	4855.6	4782.9	4551.3	4260.4	4066.5	4282.0	4338.5	4699.4
25°	5423.8	5466.9	5429.2	5324.2	5232.6	4949.8	4602.4	4282.0	4400.5	4462.4	4874.4
27.5°	5825.1	5857.4	5892.4	5830.5	5690.4	5396.9	4957.9	4505.5	4519.0	4583.6	5036.0
30°	6183.3	6264.1	6293.7	6301.8	6183.3	5854.7	5321.5	4737.1	4621.3	4688.6	5197.6
32.5°	6673.4	6794.6	6746.1	6794.6	6724.6	6285.6	5698.5	4976.8	4753.3	4815.2	5351.1
35°	7389.8	7486.7	7360.1	7322.4	7209.3	6721.9	6062.1	5224.5	4928.3	4995.6	5496.5
37.5°	8160.0	8270.4	8087.3	7936.4	7721.0	7152.8	6374.5	5550.4	5170.7	5224.5	5631.2
40°	8833.2	8924.8	8765.9	8566.6	8205.8	7532.5	6643.8	5779.3	5413.1	5480.4	5787.4
42.5°	9455.3	9514.6	9336.8	9145.6	8663.6	7874.5	6934.6	6021.7	5695.8	5760.5	5914.0
45°	10085.5	10131.3	9883.5	9611.5	9046.0	8186.9	7255.1	6361.0	6110.6	6196.7	6118.6
47.5°	10198.6	10212.1	10169.0	9985.9	9347.6	8485.8	7651.0	6816.1	6743.4	6837.7	6471.4
50°	9414.9	9536.1	9802.7	9983.2	9468.8	8736.3	8046.9	7467.9	7616.0	7737.2	7203.9
52.5°	7893.4	8009.2	8625.9	9309.9	9177.9	8792.8	8472.4	8294.6	8846.7	8992.1	8200.4
55°	6288.3	6390.6	7042.4	8028.0	8238.1	8534.3	8927.5	9350.3	10416.8	10513.7	9293.8
57.5°	5178.8	5235.3	5701.2	6649.2	6985.8	7707.5	9172.6	10605.3	12013.7	12161.9	10244.4
60°	4247.0	4308.9	4656.3	5437.3	5884.3	6525.3	8978.7	11844.1	13920.4	13920.4	11464.4
62.5°	3196.7	3250.5	3573.7	4185.0	4936.4	5523.5	8359.3	12665.5	15358.5	15293.9	12347.7
65°	2194.8	2237.9	2472.2	2878.9	3554.8	4707.5	7513.6	12676.2	16311.9	16225.7	12724.7
66°	1842.1	1879.8	2079.0	2407.6	2975.8	4271.2	7214.7	12447.3	16511.2	16390.0	12565.8
67.5°	1454.3	1481.2	1613.1	1807.0	2181.4	3457.9	6743.4	11798.3	16492.3	16419.6	12161.9
70°	1039.5	1058.4	1155.3	1195.7	1290.0	2000.9	5356.5	10333.3	15170.0	15191.6	10573.0
72.5°	805.2	834.8	894.1	902.2	880.6	1063.8	3250.5	8620.5	12409.6	12401.5	7847.6
75°	649.0	665.2	694.8	711.0	705.6	686.7	1376.2	6431.0	8542.4	8642.0	4395.1
77.5°	511.7	509.0	535.9	557.5	573.6	538.6	630.2	3770.3	4478.6	4352.0	1650.8
80°	377.0	377.0	414.7	422.8	447.0	452.4	420.1	1454.3	1537.7	1397.7	428.2
82.5°	247.8	247.8	288.2	293.5	317.8	352.8	304.3	436.3	425.5	404.0	193.9
85°	134.7	129.3	142.7	161.6	175.0	207.4	183.1	218.1	223.5	220.8	129.3
87.5°	26.9	24.2	37.7	43.1	48.5	64.6	59.2	88.9	123.9	121.2	56.6
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°	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0
2.5°	3452.5	3449.8	3479.4	3514.4	3554.8	3579.1	3589.8	3608.7	3595.2	3600.6	3616.8
5°	3503.7	3511.8	3554.8	3600.6	3619.5	3606.0	3576.4	3565.6	3541.4	3536.0	3530.6
7.5°	3579.1	3592.5	3635.6	3646.4	3589.8	3495.6	3428.3	3390.6	3350.2	3339.4	3334.0
10°	3703.0	3711.0	3721.8	3611.4	3471.4	3344.8	3261.3	3226.3	3199.4	3177.8	3183.2
12.5°	3859.2	3853.8	3770.3	3541.4	3342.1	3212.8	3156.3	3134.7	3115.9	3102.4	3099.7
15°	4055.7	4018.0	3778.4	3444.4	3220.9	3113.2	3072.8	3064.7	3043.2	3043.2	3040.5
17.5°	4255.0	4158.1	3773.0	3342.1	3105.1	3045.9	3021.6	3016.2	3010.8	3008.1	3016.2
20°	4454.3	4282.0	3729.9	3215.5	3024.3	2989.3	2983.9	2986.6	2981.2	2989.3	2983.9
22.5°	4629.4	4362.8	3649.1	3080.9	2967.8	2965.1	2951.6	2957.0	2975.8	2978.5	2986.6
25°	4764.0	4392.4	3530.6	2957.0	2927.4	2922.0	2938.1	2959.7	2975.8	2978.5	2992.0
27.5°	4874.4	4376.2	3382.5	2860.0	2857.3	2887.0	2935.4	2943.5	2946.2	2946.2	2935.4
30°	4957.9	4341.2	3194.0	2752.3	2765.8	2838.5	2884.3	2884.3	2862.7	2857.3	2873.5
32.5°	4976.8	4295.4	2989.3	2641.9	2663.4	2749.6	2806.2	2787.3	2763.1	2763.1	2773.9
35°	4992.9	4233.5	2825.0	2491.1	2523.4	2625.7	2679.6	2641.9	2615.0	2606.9	2604.2
37.5°	4987.5	4209.3	2676.9	2299.9	2343.0	2442.6	2477.6	2442.6	2402.2	2383.4	2407.6
40°	4992.9	4193.1	2491.1	2089.8	2132.9	2192.2	2237.9	2211.0	2173.3	2124.8	2149.1
42.5°	5025.3	4214.6	2286.4	1885.1	1885.1	1917.5	1995.6	1976.7	1885.1	1866.3	1887.8
45°	5197.6	4330.4	2081.7	1680.5	1650.8	1672.4	1753.2	1672.4	1615.8	1615.8	1634.7
47.5°	5615.0	4545.9	1901.3	1500.0	1430.0	1473.1	1494.6	1419.2	1376.2	1365.4	1384.2
50°	6466.0	4976.8	1793.6	1351.9	1265.7	1298.1	1284.6	1281.9	1238.8	1244.2	1255.0
52.5°	7758.7	5817.0	1761.3	1279.2	1171.5	1179.6	1166.1	1171.5	1163.4	1190.3	1198.4
55°	9167.2	6703.0	1801.7	1290.0	1106.8	1050.3	1055.7	1082.6	1114.9	1158.0	1166.1
57.5°	10220.2	7147.4	1906.7	1362.7	1026.1	939.9	953.3	1004.5	1066.5	1101.5	1120.3
60°	11003.8	7093.5	2060.2	1381.5	929.1	840.2	864.5	939.9	993.7	1023.4	1042.2
62.5°	11259.7	6756.9	2097.9	1244.2	802.5	746.0	805.2	883.3	907.6	939.9	953.3
65°	11049.6	6280.2	1823.2	1009.9	705.6	676.0	762.1	821.4	853.7	869.9	872.6
66°	10801.9	5994.8	1675.1	918.3	670.6	654.4	746.0	794.5	826.8	824.1	826.8
67.5°	10257.9	5396.9	1435.4	789.1	619.4	622.1	719.0	751.4	762.1	754.1	754.1
70°	8407.7	3799.9	1028.7	597.9	544.0	581.7	646.3	654.4	678.7	667.9	667.9
72.5°	5184.1	1866.3	689.4	457.8	484.8	544.0	541.3	568.2	624.8	640.9	651.7
75°	2547.6	756.7	455.1	387.8	433.6	455.1	449.7	517.1	597.9	667.9	692.1
77.5°	966.8	377.0	317.8	339.3	350.1	342.0	358.2	468.6	597.9	724.4	748.7
80°	298.9	261.2	250.5	280.1	263.9	250.5	269.3	387.8	506.3	549.4	549.4
82.5°	180.4	204.7	193.9	191.2	177.7	180.4	193.9	277.4	390.5	409.3	409.3
85°	126.6	134.7	110.4	105.0	102.3	99.6	99.6	161.6	231.6	228.9	237.0
87.5°	48.5	53.9	40.4	40.4	37.7	26.9	21.5	26.9	26.9	18.9	13.5
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)