

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: P1211677

Luminaire Tested: **ARCH4-80-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211677
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: ARCH4-80-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13990 lumens
Efficiency: N/A
Efficacy: 167.7 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): 83.4
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

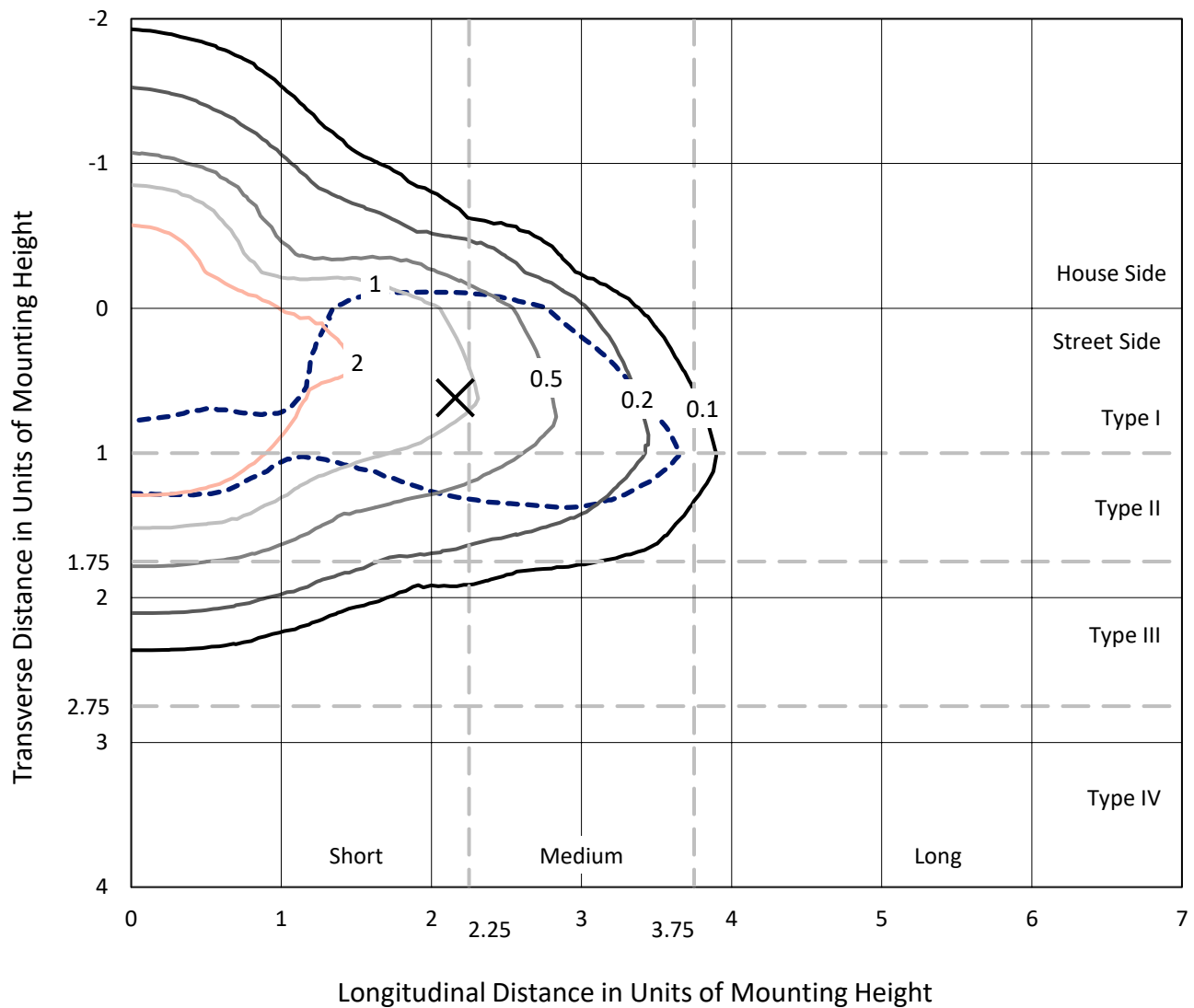


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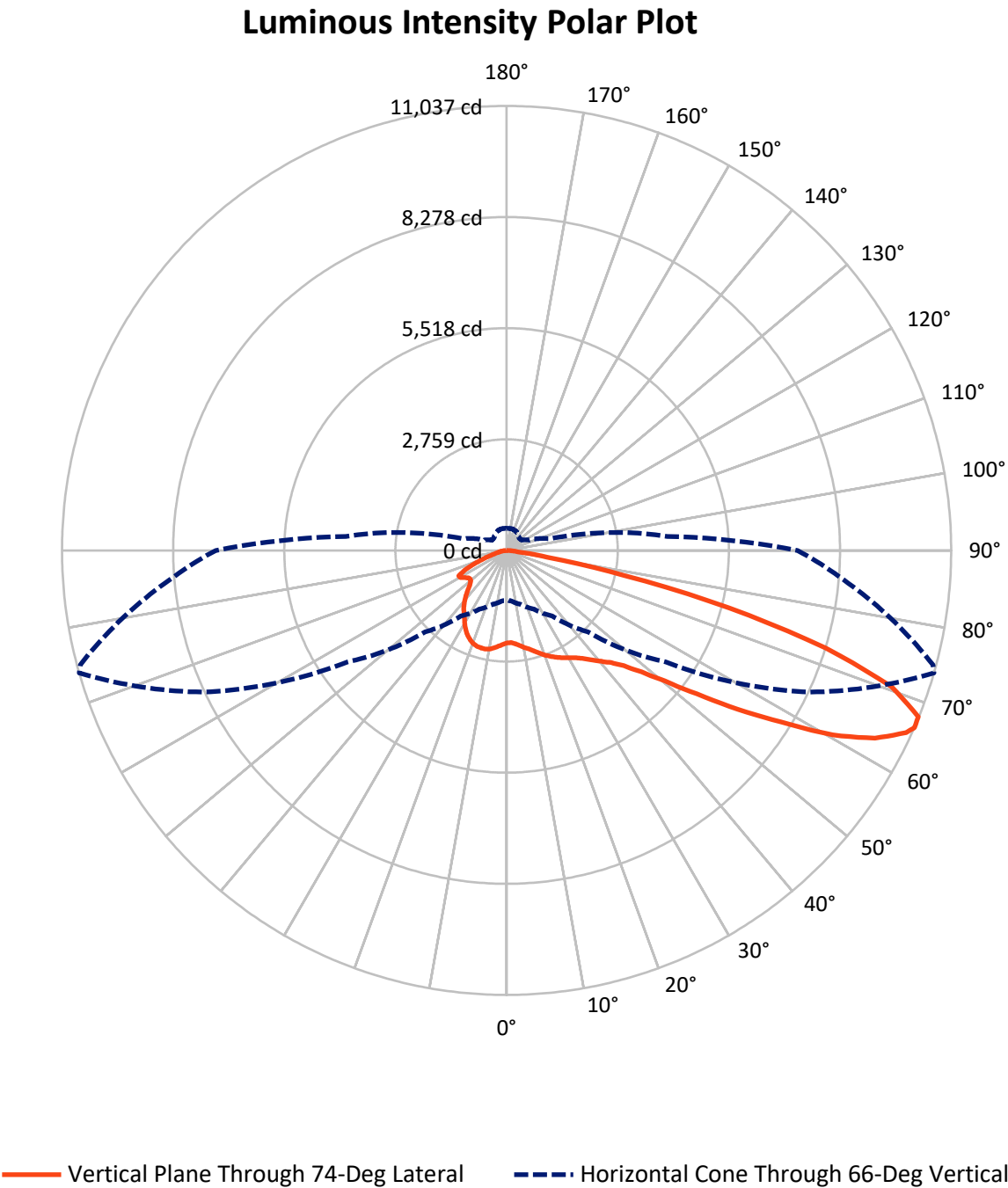
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3406.9	0.0	3406.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10583.0	0.0	10583.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	13990.0	0.0	13990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	1.6
10°-20°	672.8	4.8
20°-30°	1262.5	9.0
30°-40°	1942.0	13.9
40°-50°	2612.1	18.7
50°-60°	3089.1	22.1
60°-70°	2857.6	20.4
70°-80°	1202.2	8.6
80°-90°	133.0	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°	13990.0	100.0
0°-180°	13990.0	100.0

Coefficient of Utilization



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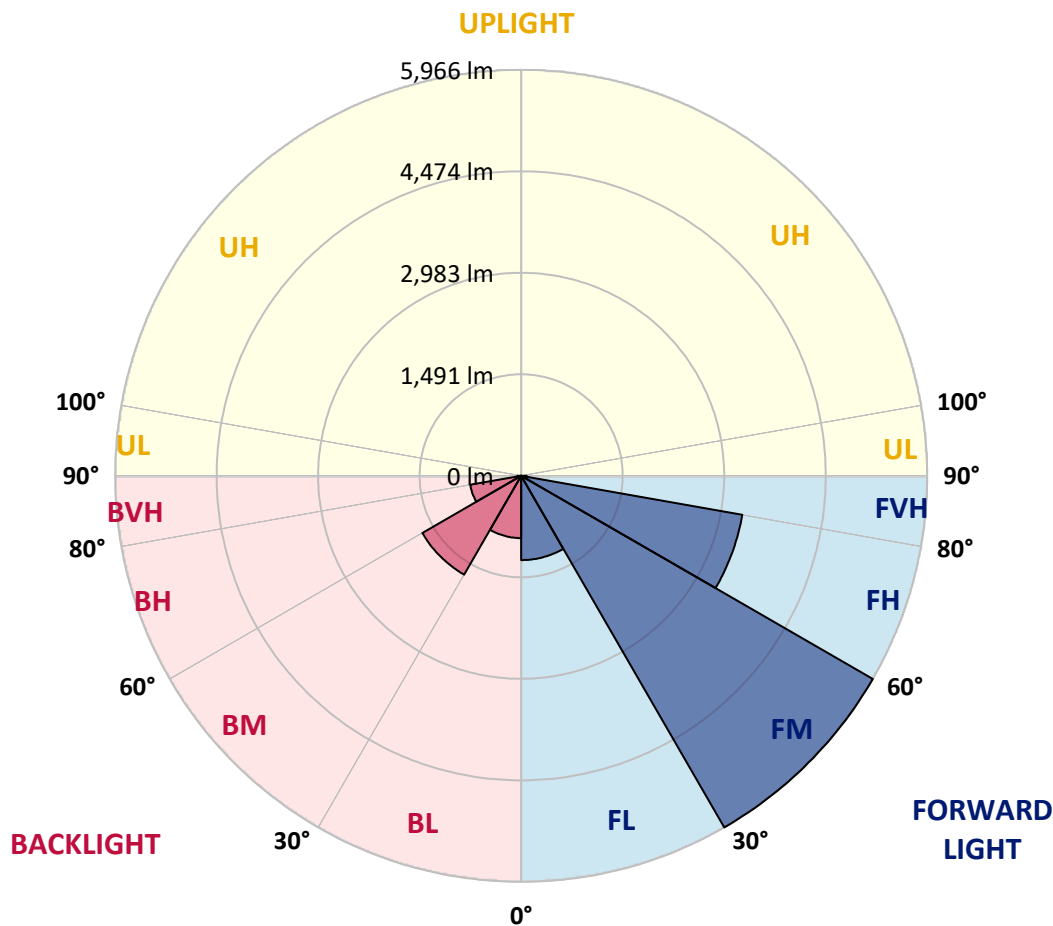
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.3	8.9			
FM	(30°-60°)	5965.9	42.6			
FH	(60°-80°)	3299.2	23.6			G2/5000
FVH	(80°-90°)	79.6	0.6			G1/100
BL	(0°-30°)	915.7	6.5	B2/1000		
BM	(30°-60°)	1677.3	12.0	B2/2500		
BH	(60°-80°)	760.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	53.4	0.4			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°	74°	75°	85°
0°	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4
2.5°	2286.2	2282.6	2289.8	2300.6	2306.0	2297.0	2293.4	2291.6	2291.6	2286.2	2295.2
5°	2178.2	2176.4	2192.6	2212.4	2250.2	2277.2	2313.2	2334.8	2327.6	2316.8	2324.0
7.5°	2037.8	2034.2	2054.0	2091.8	2144.0	2203.4	2291.6	2360.0	2387.0	2383.4	2381.6
10°	2091.8	2088.2	2086.4	2075.6	2093.6	2151.2	2243.0	2363.6	2455.4	2457.2	2459.0
12.5°	2279.0	2288.0	2279.0	2244.8	2205.2	2183.6	2237.6	2372.6	2513.0	2523.8	2568.9
15°	2534.6	2525.6	2507.6	2468.0	2406.8	2342.0	2302.4	2414.0	2595.9	2604.9	2703.9
17.5°	2759.7	2766.9	2756.1	2718.3	2646.3	2561.7	2441.0	2486.0	2684.1	2709.3	2847.9
20°	3004.5	3033.3	3018.9	2972.1	2912.7	2786.7	2635.5	2590.5	2781.3	2799.3	2997.3
22.5°	3287.1	3317.7	3290.7	3245.7	3197.1	3042.3	2847.9	2718.3	2862.3	2900.1	3141.3
25°	3625.6	3654.4	3629.2	3559.0	3497.7	3308.7	3076.5	2862.3	2941.5	2982.9	3258.3
27.5°	3893.8	3915.4	3938.8	3897.4	3803.8	3607.6	3314.1	3011.7	3020.7	3063.9	3366.3
30°	4133.2	4187.2	4207.0	4212.4	4133.2	3913.6	3557.2	3166.5	3089.1	3134.1	3474.3
32.5°	4460.8	4541.8	4509.4	4541.8	4495.0	4201.6	3809.2	3326.7	3177.3	3218.7	3577.0
35°	4939.7	5004.5	4919.9	4894.7	4819.1	4493.2	4052.2	3492.3	3294.3	3339.3	3674.2
37.5°	5454.5	5528.3	5405.9	5305.1	5161.1	4781.3	4261.0	3710.2	3456.3	3492.3	3764.2
40°	5904.6	5965.8	5859.6	5726.4	5485.1	5035.1	4441.0	3863.2	3618.4	3663.4	3868.6
42.5°	6320.4	6360.0	6241.2	6113.4	5791.2	5263.7	4635.5	4025.2	3807.4	3850.6	3953.2
45°	6741.7	6772.3	6606.7	6424.8	6046.8	5472.5	4849.7	4252.0	4084.6	4142.2	4090.0
47.5°	6817.3	6826.3	6797.5	6675.1	6248.4	5672.4	5114.3	4556.2	4507.6	4570.7	4325.8
50°	6293.4	6374.4	6552.6	6673.3	6329.4	5839.8	5378.9	4991.9	5090.9	5171.9	4815.5
52.5°	5276.3	5353.7	5766.0	6223.2	6135.0	5877.6	5663.4	5544.5	5913.6	6010.8	5481.5
55°	4203.4	4271.8	4707.5	5366.3	5506.7	5704.8	5967.6	6250.2	6963.1	7027.9	6212.4
57.5°	3461.7	3499.5	3811.0	4444.6	4669.7	5152.1	6131.4	7089.1	8030.6	8129.6	6847.9
60°	2838.9	2880.3	3112.5	3634.6	3933.4	4361.8	6001.8	7917.2	9305.1	9305.1	7663.4
62.5°	2136.8	2172.8	2388.8	2797.5	3299.7	3692.2	5587.8	8466.2	10266.4	10223.2	8253.8
65°	1467.1	1495.9	1652.6	1924.4	2376.2	3146.7	5022.5	8473.4	10903.7	10846.1	8505.8
66°	1231.3	1256.5	1389.7	1609.4	1989.2	2855.1	4822.7	8320.4	11036.9	10955.9	8399.6
67.5°	972.1	990.1	1078.3	1207.9	1458.1	2311.4	4507.6	7886.6	11024.3	10975.7	8129.6
70°	694.9	707.5	772.3	799.3	862.3	1337.5	3580.6	6907.3	10140.4	10154.8	7067.5
72.5°	538.3	558.1	597.7	603.1	588.7	711.1	2172.8	5762.4	8295.2	8289.8	5245.7
75°	433.8	444.6	464.4	475.2	471.6	459.0	919.9	4298.8	5710.2	5776.8	2937.9
77.5°	342.0	340.2	358.2	372.6	383.4	360.0	421.2	2520.2	2993.7	2909.1	1103.5
80°	252.0	252.0	277.2	282.6	298.8	302.4	280.8	972.1	1027.9	934.3	286.2
82.5°	165.6	165.6	192.6	196.2	212.4	235.8	203.4	291.6	284.4	270.0	129.6
85°	90.0	86.4	95.4	108.0	117.0	138.6	122.4	145.8	149.4	147.6	86.4
87.5°	18.0	16.2	25.2	28.8	32.4	43.2	39.6	59.4	82.8	81.0	37.8
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°	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4	2293.4
2.5°	2307.8	2306.0	2325.8	2349.2	2376.2	2392.4	2399.6	2412.2	2403.2	2406.8	2417.6
5°	2342.0	2347.4	2376.2	2406.8	2419.4	2410.4	2390.6	2383.4	2367.2	2363.6	2360.0
7.5°	2392.4	2401.4	2430.2	2437.4	2399.6	2336.6	2291.6	2266.4	2239.4	2232.2	2228.6
10°	2475.2	2480.6	2487.8	2414.0	2320.4	2235.8	2180.0	2156.6	2138.6	2124.2	2127.8
12.5°	2579.7	2576.1	2520.2	2367.2	2234.0	2147.6	2109.8	2095.4	2082.8	2073.8	2072.0
15°	2711.1	2685.9	2525.6	2302.4	2153.0	2081.0	2054.0	2048.6	2034.2	2034.2	2032.4
17.5°	2844.3	2779.5	2522.0	2234.0	2075.6	2036.0	2019.8	2016.2	2012.6	2010.8	2016.2
20°	2977.5	2862.3	2493.2	2149.4	2021.6	1998.2	1994.6	1996.4	1992.8	1998.2	1994.6
22.5°	3094.5	2916.3	2439.2	2059.4	1983.8	1982.0	1973.0	1976.6	1989.2	1991.0	1996.4
25°	3184.5	2936.1	2360.0	1976.6	1956.8	1953.2	1964.0	1978.4	1989.2	1991.0	2000.0
27.5°	3258.3	2925.3	2261.0	1911.8	1910.0	1929.8	1962.2	1967.6	1969.4	1969.4	1962.2
30°	3314.1	2901.9	2135.0	1839.8	1848.8	1897.4	1928.0	1928.0	1913.6	1910.0	1920.8
32.5°	3326.7	2871.3	1998.2	1766.0	1780.4	1838.0	1875.8	1863.2	1847.0	1847.0	1854.2
35°	3337.5	2829.9	1888.4	1665.2	1686.8	1755.2	1791.2	1766.0	1748.0	1742.6	1740.8
37.5°	3333.9	2813.7	1789.4	1537.4	1566.2	1632.8	1656.2	1632.8	1605.8	1593.2	1609.4
40°	3337.5	2802.9	1665.2	1396.9	1425.7	1465.3	1495.9	1477.9	1452.7	1420.3	1436.5
42.5°	3359.1	2817.3	1528.4	1260.1	1260.1	1281.7	1333.9	1321.3	1260.1	1247.5	1261.9
45°	3474.3	2894.7	1391.5	1123.3	1103.5	1117.9	1171.9	1117.9	1080.1	1080.1	1092.7
47.5°	3753.4	3038.7	1270.9	1002.7	955.9	984.7	999.1	948.7	919.9	912.7	925.3
50°	4322.2	3326.7	1198.9	903.7	846.1	867.7	858.7	856.9	828.1	831.7	838.9
52.5°	5186.3	3888.4	1177.3	855.1	783.1	788.5	779.5	783.1	777.7	795.7	801.1
55°	6127.8	4480.6	1204.3	862.3	739.9	702.1	705.7	723.7	745.3	774.1	779.5
57.5°	6831.7	4777.7	1274.5	910.9	685.9	628.3	637.3	671.5	712.9	736.3	748.9
60°	7355.5	4741.7	1377.1	923.5	621.1	561.7	577.9	628.3	664.3	684.1	696.7
62.5°	7526.5	4516.6	1402.3	831.7	536.5	498.6	538.3	590.5	606.7	628.3	637.3
65°	7386.1	4198.0	1218.7	675.1	471.6	451.8	509.5	549.1	570.7	581.5	583.3
66°	7220.5	4007.2	1119.7	613.9	448.2	437.4	498.6	531.1	552.7	550.9	552.7
67.5°	6856.9	3607.6	959.5	527.5	414.0	415.8	480.6	502.2	509.5	504.0	504.0
70°	5620.2	2540.1	687.7	399.6	363.6	388.8	432.0	437.4	453.6	446.4	446.4
72.5°	3465.3	1247.5	460.8	306.0	324.0	363.6	361.8	379.8	417.6	428.4	435.6
75°	1703.0	505.8	304.2	259.2	289.8	304.2	300.6	345.6	399.6	446.4	462.6
77.5°	646.3	252.0	212.4	226.8	234.0	228.6	239.4	313.2	399.6	484.2	500.4
80°	199.8	174.6	167.4	187.2	176.4	167.4	180.0	259.2	338.4	367.2	367.2
82.5°	120.6	136.8	129.6	127.8	118.8	120.6	129.6	185.4	261.0	273.6	273.6
85°	84.6	90.0	73.8	70.2	68.4	66.6	66.6	108.0	154.8	153.0	158.4
87.5°	32.4	36.0	27.0	27.0	25.2	18.0	14.4	18.0	18.0	12.6	9.0
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)