

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: P1210821

Luminaire Tested: **ARCH3-80-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210821
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: ARCH3-80-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13360 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 81.9
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



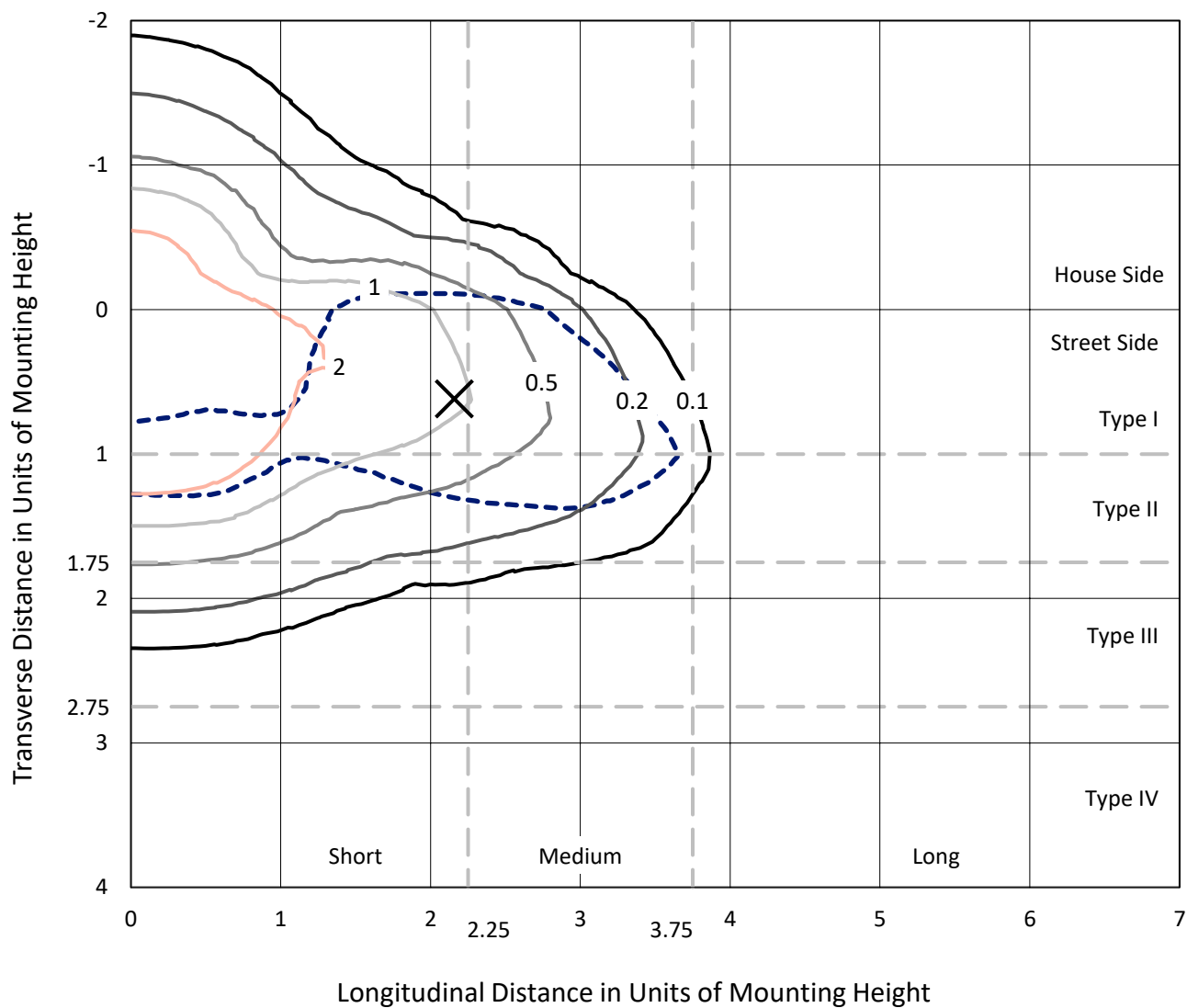
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

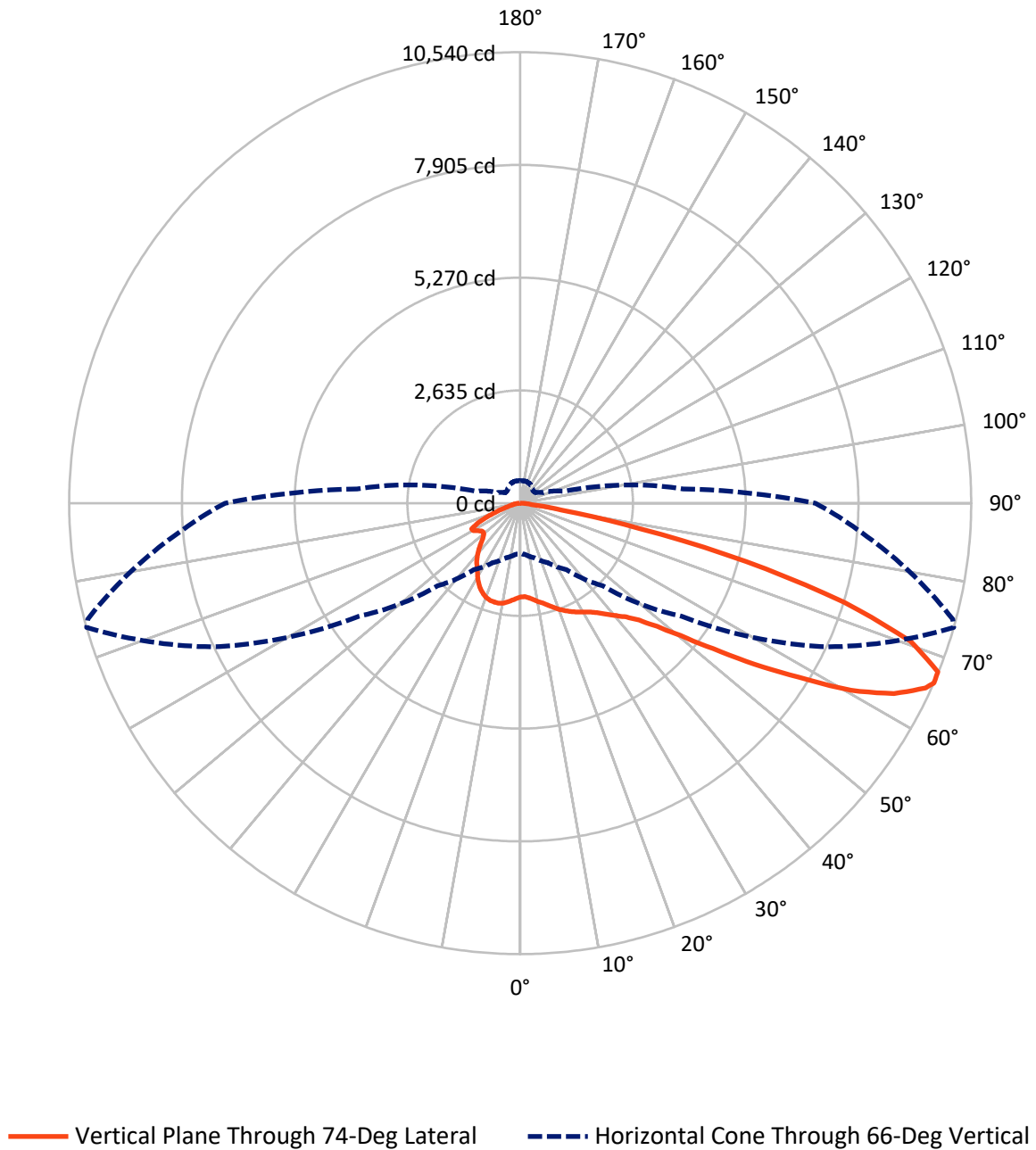
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	3253.5	0.0	3253.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10106.5	0.0	10106.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	13360.0	0.0	13360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	1.6
10°-20°	642.5	4.8
20°-30°	1205.6	9.0
30°-40°	1854.5	13.9
40°-50°	2494.5	18.7
50°-60°	2950.0	22.1
60°-70°	2728.9	20.4
70°-80°	1148.0	8.6
80°-90°	127.0	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°	13360.0	100.0
0°-180°	13360.0	100.0

Coefficient of Utilization



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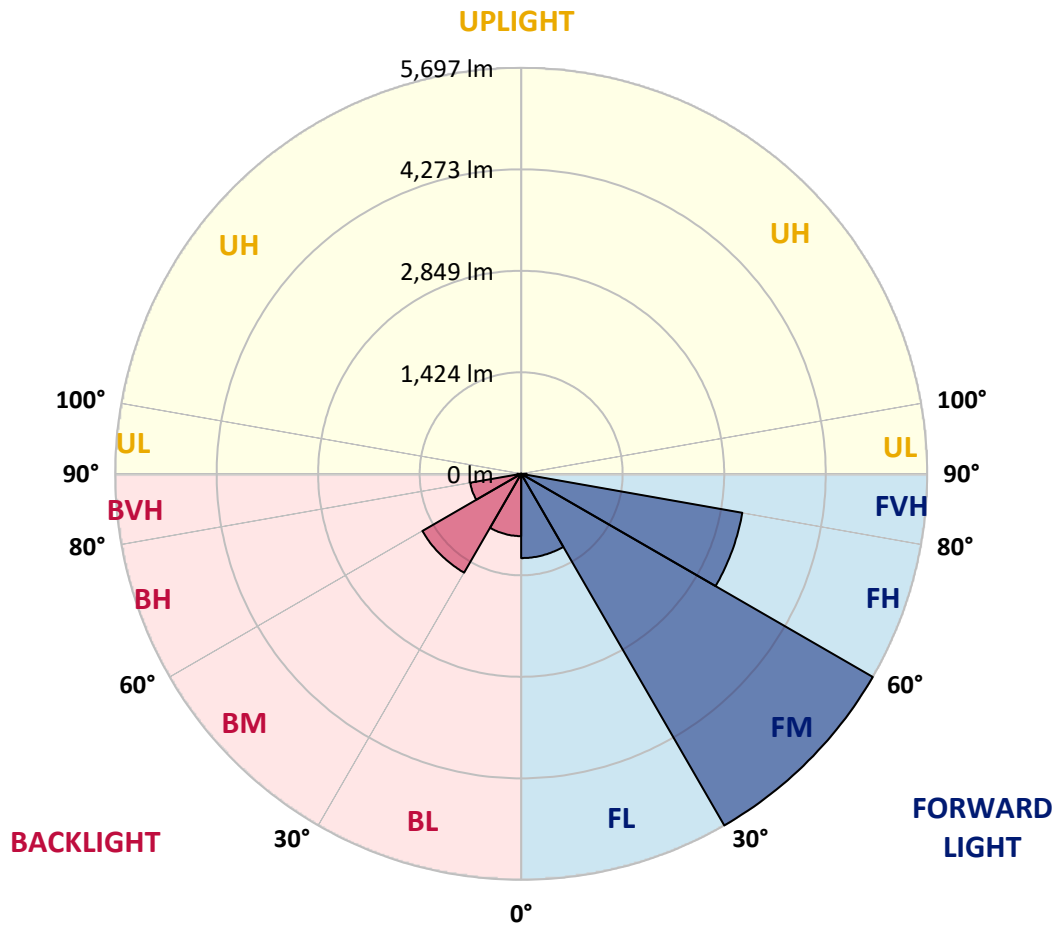
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1182.5	8.9			
FM	(30°-60°)	5697.3	42.6			
FH	(60°-80°)	3150.7	23.6			G2/5000
FVH	(80°-90°)	76.0	0.6			G1/100
BL	(0°-30°)	874.5	6.5	B2/1000		
BM	(30°-60°)	1601.7	12.0	B2/2500		
BH	(60°-80°)	726.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	51.0	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°	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1
2.5°	2183.3	2179.8	2186.7	2197.0	2202.2	2193.6	2190.1	2188.4	2188.4	2183.3	2191.9
5°	2080.1	2078.4	2093.9	2112.8	2148.9	2174.7	2209.1	2229.7	2222.8	2212.5	2219.4
7.5°	1946.0	1942.6	1961.5	1997.6	2047.5	2104.2	2188.4	2253.8	2279.5	2276.1	2274.4
10°	1997.6	1994.2	1992.5	1982.1	1999.3	2054.3	2142.0	2257.2	2344.9	2346.6	2348.3
12.5°	2176.4	2185.0	2176.4	2143.7	2105.9	2085.3	2136.9	2265.8	2399.9	2410.2	2453.2
15°	2420.5	2411.9	2394.7	2356.9	2298.5	2236.6	2198.7	2305.3	2479.0	2487.6	2582.1
17.5°	2635.4	2642.3	2632.0	2595.9	2527.1	2446.3	2331.1	2374.1	2563.2	2587.3	2719.6
20°	2869.2	2896.7	2883.0	2838.3	2781.5	2661.2	2516.8	2473.8	2656.0	2673.2	2862.3
22.5°	3139.1	3168.3	3142.5	3099.6	3053.1	2905.3	2719.6	2595.9	2733.4	2769.5	2999.8
25°	3462.3	3489.8	3465.7	3398.7	3340.2	3159.7	2938.0	2733.4	2809.0	2848.6	3111.6
27.5°	3718.4	3739.1	3761.4	3721.9	3632.5	3445.1	3164.9	2876.1	2884.7	2925.9	3214.7
30°	3947.1	3998.7	4017.6	4022.7	3947.1	3737.3	3397.0	3023.9	2950.0	2993.0	3317.9
32.5°	4260.0	4337.3	4306.4	4337.3	4292.6	4012.4	3637.6	3176.9	3034.2	3073.8	3415.9
35°	4717.2	4779.1	4698.3	4674.3	4602.1	4290.9	3869.7	3335.1	3146.0	3189.0	3508.7
37.5°	5208.9	5279.4	5162.5	5066.2	4928.7	4566.0	4069.1	3543.1	3300.7	3335.1	3594.7
40°	5638.7	5697.1	5595.7	5468.5	5238.1	4808.4	4241.0	3689.2	3455.4	3498.4	3694.4
42.5°	6035.8	6073.6	5960.2	5838.1	5530.4	5026.7	4426.7	3843.9	3635.9	3677.2	3775.2
45°	6438.1	6467.3	6309.1	6135.5	5774.5	5226.1	4631.3	4060.5	3900.7	3955.7	3905.8
47.5°	6510.3	6518.9	6491.4	6374.5	5967.0	5416.9	4884.0	4351.1	4304.7	4364.8	4131.0
50°	6010.0	6087.4	6257.6	6372.7	6044.4	5576.8	5136.7	4767.1	4861.6	4939.0	4598.6
52.5°	5038.7	5112.6	5506.3	5943.0	5858.7	5612.9	5408.3	5294.9	5647.3	5740.1	5234.7
55°	4014.1	4079.5	4495.5	5124.7	5258.8	5447.9	5698.9	5968.8	6649.5	6711.4	5932.7
57.5°	3305.9	3342.0	3639.4	4244.5	4459.4	4920.1	5855.3	6769.9	7669.0	7763.5	6539.5
60°	2711.0	2750.6	2972.3	3470.9	3756.3	4165.4	5731.5	7560.7	8886.1	8886.1	7318.3
62.5°	2040.6	2075.0	2281.3	2671.5	3151.1	3525.9	5336.1	8085.0	9804.1	9762.8	7882.1
65°	1401.1	1428.6	1578.1	1837.7	2269.2	3005.0	4796.3	8091.9	10412.7	10357.6	8122.8
66°	1175.9	1199.9	1327.2	1536.9	1899.6	2726.5	4605.5	7945.7	10539.9	10462.5	8021.4
67.5°	928.3	945.5	1029.7	1153.5	1392.5	2207.3	4304.7	7531.4	10527.8	10481.4	7763.5
70°	663.6	675.6	737.5	763.3	823.5	1277.3	3419.3	6596.2	9683.8	9697.5	6749.2
72.5°	514.0	532.9	570.7	575.9	562.1	679.0	2075.0	5502.9	7921.7	7916.5	5009.5
75°	414.3	424.6	443.5	453.8	450.4	438.4	878.5	4105.2	5453.0	5516.6	2805.6
77.5°	326.6	324.9	342.1	355.9	366.2	343.8	402.3	2406.8	2858.9	2778.1	1053.8
80°	240.7	240.7	264.7	269.9	285.4	288.8	268.2	928.3	981.6	892.2	273.3
82.5°	158.2	158.2	183.9	187.4	202.9	225.2	194.3	278.5	271.6	257.9	123.8
85°	86.0	82.5	91.1	103.1	111.7	132.4	116.9	139.2	142.7	141.0	82.5
87.5°	17.2	15.5	24.1	27.5	30.9	41.3	37.8	56.7	79.1	77.4	36.1
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°	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1	2190.1
2.5°	2203.9	2202.2	2221.1	2243.4	2269.2	2284.7	2291.6	2303.6	2295.0	2298.5	2308.8
5°	2236.6	2241.7	2269.2	2298.5	2310.5	2301.9	2283.0	2276.1	2260.6	2257.2	2253.8
7.5°	2284.7	2293.3	2320.8	2327.7	2291.6	2231.4	2188.4	2164.4	2138.6	2131.7	2128.3
10°	2363.8	2368.9	2375.8	2305.3	2215.9	2135.1	2081.8	2059.5	2042.3	2028.6	2032.0
12.5°	2463.5	2460.0	2406.8	2260.6	2133.4	2050.9	2014.8	2001.0	1989.0	1980.4	1978.7
15°	2589.0	2564.9	2411.9	2198.7	2056.1	1987.3	1961.5	1956.3	1942.6	1942.6	1940.9
17.5°	2716.2	2654.3	2408.5	2133.4	1982.1	1944.3	1928.8	1925.4	1922.0	1920.2	1925.4
20°	2843.4	2733.4	2381.0	2052.6	1930.6	1908.2	1904.8	1906.5	1903.1	1908.2	1904.8
22.5°	2955.2	2785.0	2329.4	1966.7	1894.5	1892.7	1884.1	1887.6	1899.6	1901.3	1906.5
25°	3041.1	2803.9	2253.8	1887.6	1868.7	1865.2	1875.6	1889.3	1899.6	1901.3	1909.9
27.5°	3111.6	2793.6	2159.2	1825.7	1824.0	1842.9	1873.8	1879.0	1880.7	1880.7	1873.8
30°	3164.9	2771.2	2038.9	1756.9	1765.5	1811.9	1841.2	1841.2	1827.4	1824.0	1834.3
32.5°	3176.9	2742.0	1908.2	1686.4	1700.2	1755.2	1791.3	1779.3	1763.8	1763.8	1770.7
35°	3187.2	2702.4	1803.3	1590.2	1610.8	1676.1	1710.5	1686.4	1669.3	1664.1	1662.4
37.5°	3183.8	2687.0	1708.8	1468.1	1495.6	1559.2	1581.6	1559.2	1533.4	1521.4	1536.9
40°	3187.2	2676.7	1590.2	1334.0	1361.5	1399.4	1428.6	1411.4	1387.3	1356.4	1371.9
42.5°	3207.9	2690.4	1459.5	1203.4	1203.4	1224.0	1273.9	1261.8	1203.4	1191.3	1205.1
45°	3317.9	2764.3	1328.9	1072.7	1053.8	1067.6	1119.1	1067.6	1031.5	1031.5	1043.5
47.5°	3584.3	2901.9	1213.7	957.5	912.8	940.4	954.1	906.0	878.5	871.6	883.6
50°	4127.6	3176.9	1144.9	863.0	808.0	828.6	820.0	818.3	790.8	794.2	801.1
52.5°	4952.8	3713.3	1124.3	816.6	747.8	753.0	744.4	747.8	742.7	759.8	765.0
55°	5851.9	4278.9	1150.1	823.5	706.6	670.5	673.9	691.1	711.7	739.2	744.4
57.5°	6524.0	4562.5	1217.1	869.9	655.0	600.0	608.6	641.2	680.8	703.1	715.2
60°	7024.3	4528.1	1315.1	881.9	593.1	536.4	551.8	600.0	634.4	653.3	665.3
62.5°	7187.6	4313.3	1339.2	794.2	512.3	476.2	514.0	563.9	579.3	600.0	608.6
65°	7053.5	4009.0	1163.8	644.7	450.4	431.5	486.5	524.3	545.0	555.3	557.0
66°	6895.4	3826.7	1069.3	586.2	428.1	417.7	476.2	507.1	527.8	526.0	527.8
67.5°	6548.1	3445.1	916.3	503.7	395.4	397.1	459.0	479.6	486.5	481.4	481.4
70°	5367.1	2425.7	656.7	381.6	347.3	371.3	412.6	417.7	433.2	426.3	426.3
72.5°	3309.3	1191.3	440.1	292.2	309.4	347.3	345.5	362.7	398.8	409.1	416.0
75°	1626.3	483.1	290.5	247.6	276.8	290.5	287.1	330.1	381.6	426.3	441.8
77.5°	617.2	240.7	202.9	216.6	223.5	218.3	228.6	299.1	381.6	462.4	477.9
80°	190.8	166.8	159.9	178.8	168.5	159.9	171.9	247.6	323.2	350.7	350.7
82.5°	115.2	130.7	123.8	122.1	113.5	115.2	123.8	177.1	249.3	261.3	261.3
85°	80.8	86.0	70.5	67.0	65.3	63.6	63.6	103.1	147.8	146.1	151.3
87.5°	30.9	34.4	25.8	25.8	24.1	17.2	13.8	17.2	17.2	12.0	8.6
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)