

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: P1211653

Luminaire Tested: **ARCH4-70-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211653
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: ARCH4-70-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13067 lumens
Efficiency: N/A
Efficacy: 177.1 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): 73.8
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



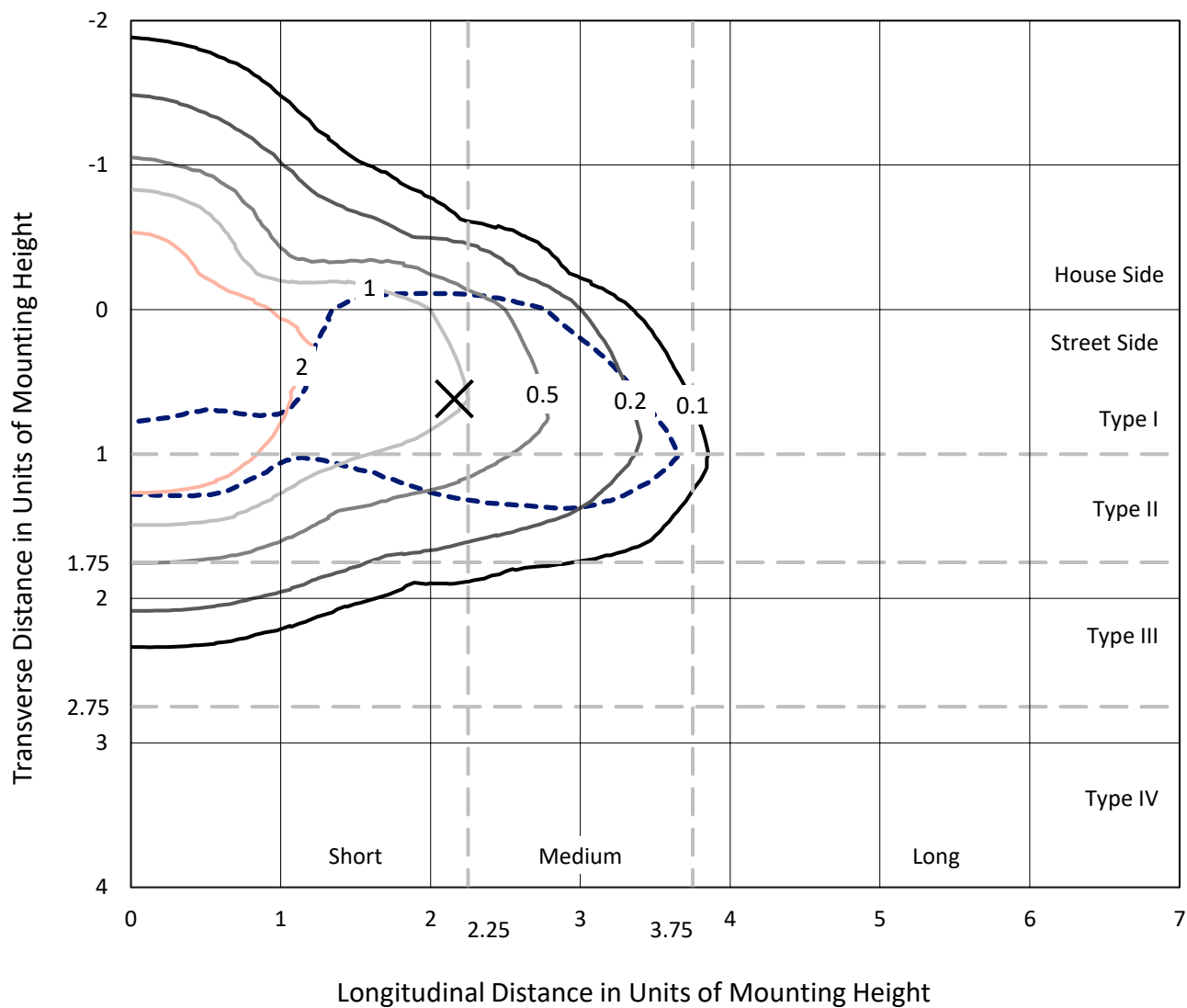
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

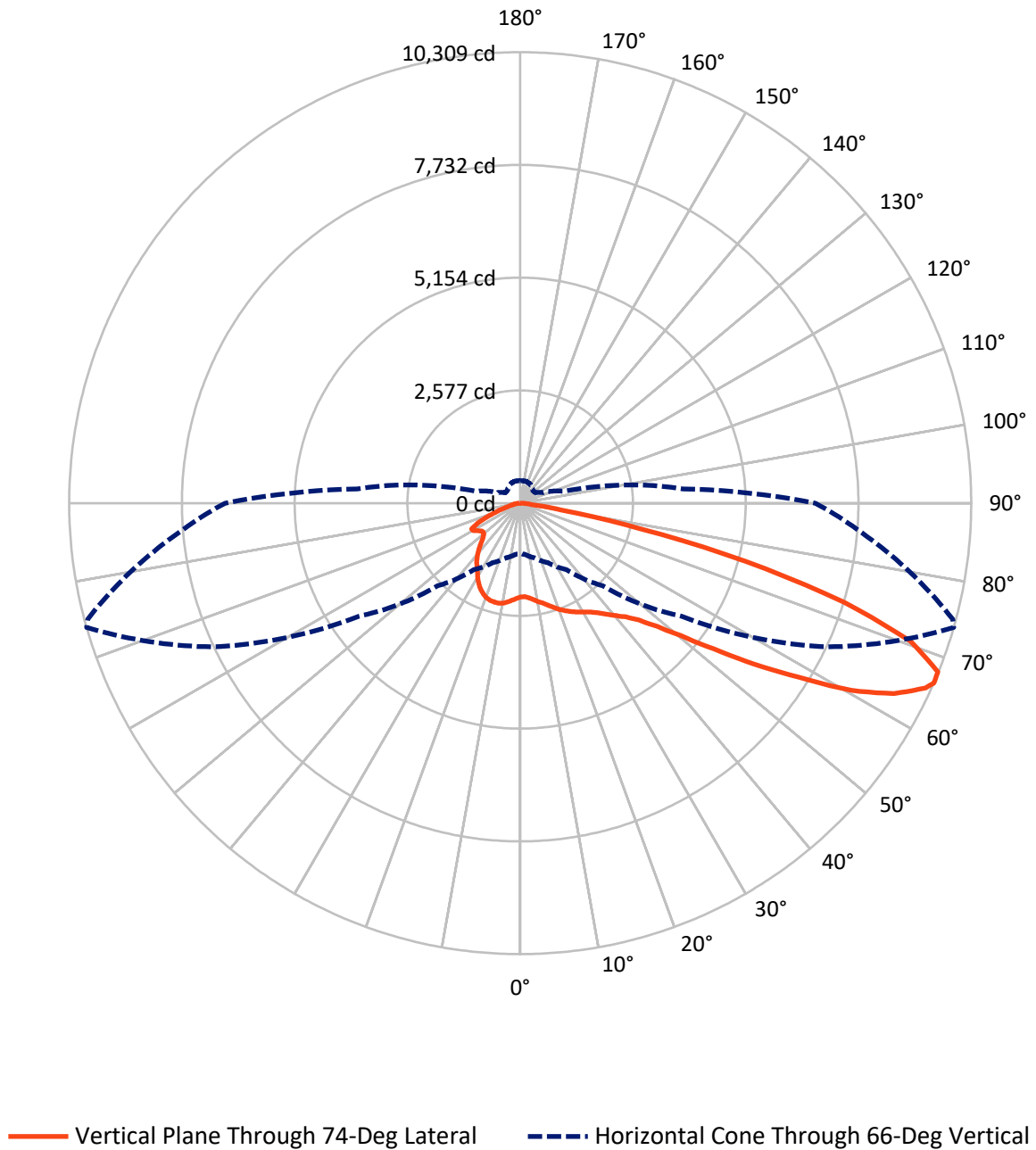
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	3182.2	0.0	3182.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9884.8	0.0	9884.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	13067.0	0.0	13067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	1.6
10°-20°	628.4	4.8
20°-30°	1179.2	9.0
30°-40°	1813.8	13.9
40°-50°	2439.8	18.7
50°-60°	2885.3	22.1
60°-70°	2669.1	20.4
70°-80°	1122.9	8.6
80°-90°	124.3	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°	13067.0	100.0
0°-180°	13067.0	100.0

Coefficient of Utilization



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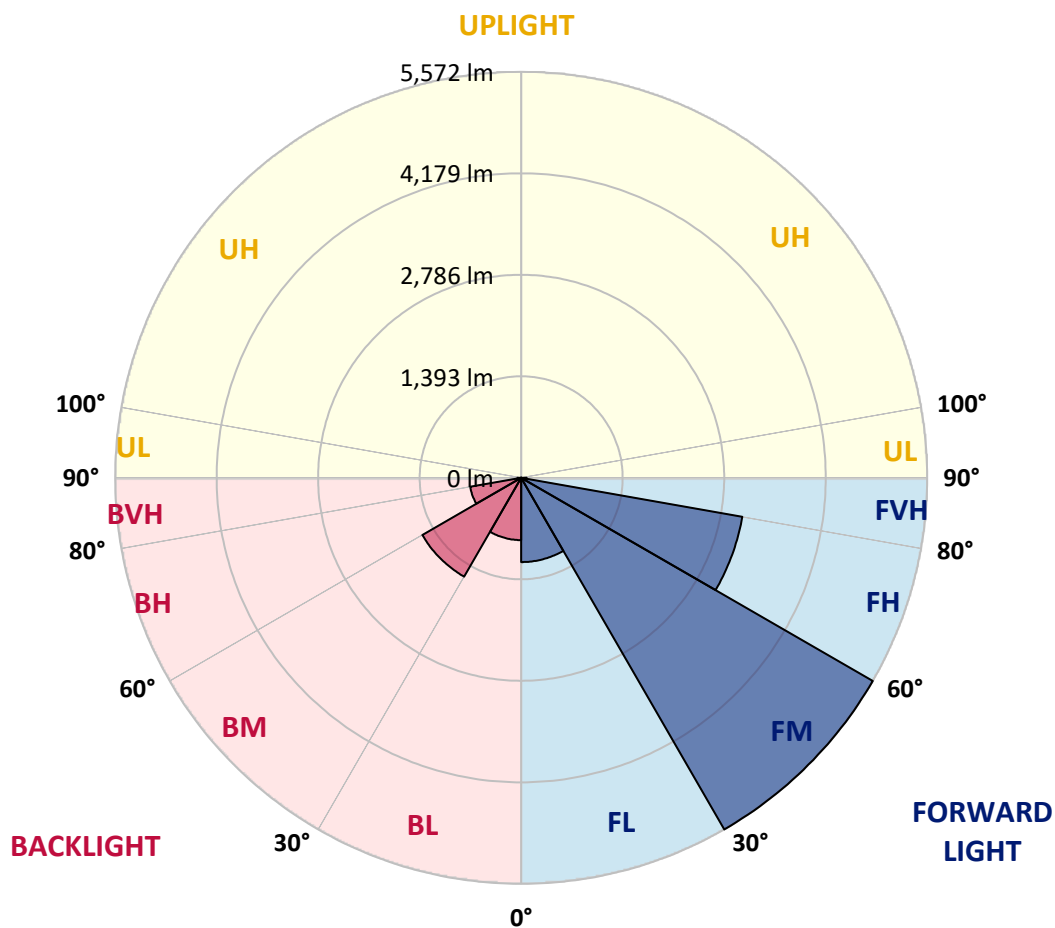
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1156.6	8.9			
FM	(30°-60°)	5572.3	42.6			
FH	(60°-80°)	3081.6	23.6			G2/5000
FVH	(80°-90°)	74.3	0.6			G1/100
BL	(0°-30°)	855.3	6.5	B2/1000		
BM	(30°-60°)	1566.6	12.0	B2/2500		
BH	(60°-80°)	710.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	49.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1
2.5°	2135.4	2132.0	2138.8	2148.8	2153.9	2145.5	2142.1	2140.4	2140.4	2135.4	2143.8
5°	2034.5	2032.8	2048.0	2066.5	2101.8	2127.0	2160.6	2180.8	2174.1	2164.0	2170.7
7.5°	1903.4	1900.0	1918.5	1953.8	2002.6	2058.0	2140.4	2204.3	2229.5	2226.2	2224.5
10°	1953.8	1950.4	1948.8	1938.7	1955.5	2009.3	2095.0	2207.7	2293.4	2295.1	2296.8
12.5°	2128.7	2137.1	2128.7	2096.7	2059.7	2039.5	2090.0	2216.1	2347.2	2357.3	2399.4
15°	2367.4	2359.0	2342.2	2305.2	2248.0	2187.5	2150.5	2254.8	2424.6	2433.0	2525.5
17.5°	2577.6	2584.3	2574.2	2538.9	2471.7	2392.6	2280.0	2322.0	2507.0	2530.5	2660.0
20°	2806.3	2833.2	2819.7	2776.0	2720.5	2602.8	2461.6	2419.5	2597.8	2614.6	2799.5
22.5°	3070.3	3098.8	3073.6	3031.6	2986.2	2841.6	2660.0	2538.9	2673.4	2708.8	2934.1
25°	3386.4	3413.3	3389.7	3324.1	3267.0	3090.4	2873.5	2673.4	2747.4	2786.1	3043.4
27.5°	3636.9	3657.1	3678.9	3640.3	3552.8	3369.5	3095.5	2813.0	2821.4	2861.8	3144.2
30°	3860.5	3911.0	3929.5	3934.5	3860.5	3655.4	3322.5	2957.6	2885.3	2927.3	3245.1
32.5°	4166.5	4242.2	4211.9	4242.2	4198.5	3924.4	3557.9	3107.2	2967.7	3006.4	3341.0
35°	4613.8	4674.3	4595.3	4571.8	4501.1	4196.8	3784.9	3261.9	3077.0	3119.0	3431.8
37.5°	5094.7	5163.6	5049.3	4955.1	4820.6	4465.8	3979.9	3465.4	3228.3	3261.9	3515.8
40°	5515.0	5572.2	5473.0	5348.6	5123.3	4702.9	4148.0	3608.3	3379.6	3421.7	3613.3
42.5°	5903.4	5940.4	5829.4	5710.1	5409.1	4916.4	4329.6	3759.6	3556.2	3596.5	3692.4
45°	6296.9	6325.5	6170.8	6001.0	5647.9	5111.5	4529.7	3971.5	3815.1	3868.9	3820.2
47.5°	6367.5	6375.9	6349.0	6234.7	5836.2	5298.1	4776.9	4255.6	4210.2	4269.1	4040.4
50°	5878.2	5953.9	6120.3	6233.0	5911.8	5454.5	5024.1	4662.5	4755.0	4830.7	4497.8
52.5°	4928.2	5000.5	5385.6	5812.6	5730.2	5489.8	5289.7	5178.7	5523.4	5614.2	5119.9
55°	3926.1	3990.0	4396.9	5012.3	5143.4	5328.4	5573.9	5837.9	6503.7	6564.2	5802.5
57.5°	3233.4	3268.7	3559.5	4151.4	4361.6	4812.2	5726.9	6621.4	7500.8	7593.2	6396.1
60°	2651.6	2690.3	2907.2	3394.8	3673.9	4074.1	5605.8	7394.8	8691.2	8691.2	7157.8
62.5°	1995.8	2029.5	2231.2	2612.9	3082.0	3448.6	5219.1	7907.7	9589.1	9548.7	7709.3
65°	1370.3	1397.3	1543.5	1797.4	2219.5	2939.1	4691.1	7914.4	10184.3	10130.5	7944.7
66°	1150.1	1173.6	1298.0	1503.2	1858.0	2666.7	4504.5	7771.5	10308.7	10233.1	7845.5
67.5°	908.0	924.8	1007.2	1128.2	1361.9	2158.9	4210.2	7366.3	10297.0	10251.6	7593.2
70°	649.0	660.8	721.3	746.5	805.4	1249.3	3344.3	6451.6	9471.4	9484.8	6601.2
72.5°	502.7	521.2	558.2	563.3	549.8	664.2	2029.5	5382.2	7747.9	7742.9	4899.6
75°	405.2	415.3	433.8	443.9	440.5	428.8	859.2	4015.2	5333.4	5395.6	2744.1
77.5°	319.5	317.8	334.6	348.1	358.1	336.3	393.4	2354.0	2796.2	2717.2	1030.7
80°	235.4	235.4	258.9	264.0	279.1	282.5	262.3	908.0	960.1	872.7	267.3
82.5°	154.7	154.7	179.9	183.3	198.4	220.3	190.0	272.4	265.7	252.2	121.1
85°	84.1	80.7	89.1	100.9	109.3	129.5	114.3	136.2	139.6	137.9	80.7
87.5°	16.8	15.1	23.5	26.9	30.3	40.4	37.0	55.5	77.3	75.7	35.3
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°	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1
2.5°	2155.6	2153.9	2172.4	2194.2	2219.5	2234.6	2241.3	2253.1	2244.7	2248.0	2258.1
5°	2187.5	2192.6	2219.5	2248.0	2259.8	2251.4	2232.9	2226.2	2211.1	2207.7	2204.3
7.5°	2234.6	2243.0	2269.9	2276.6	2241.3	2182.5	2140.4	2116.9	2091.7	2084.9	2081.6
10°	2311.9	2317.0	2323.7	2254.8	2167.3	2088.3	2036.2	2014.3	1997.5	1984.1	1987.4
12.5°	2409.5	2406.1	2354.0	2211.1	2086.6	2005.9	1970.6	1957.2	1945.4	1937.0	1935.3
15°	2532.2	2508.7	2359.0	2150.5	2011.0	1943.7	1918.5	1913.4	1900.0	1900.0	1898.3
17.5°	2656.6	2596.1	2355.7	2086.6	1938.7	1901.7	1886.5	1883.2	1879.8	1878.1	1883.2
20°	2781.1	2673.4	2328.8	2007.6	1888.2	1866.4	1863.0	1864.7	1861.3	1866.4	1863.0
22.5°	2890.3	2723.9	2278.3	1923.5	1852.9	1851.2	1842.8	1846.2	1858.0	1859.6	1864.7
25°	2974.4	2742.4	2204.3	1846.2	1827.7	1824.3	1834.4	1847.9	1858.0	1859.6	1868.0
27.5°	3043.4	2732.3	2111.9	1785.7	1784.0	1802.5	1832.7	1837.8	1839.5	1839.5	1832.7
30°	3095.5	2710.4	1994.2	1718.4	1726.8	1772.2	1800.8	1800.8	1787.3	1784.0	1794.1
32.5°	3107.2	2681.8	1866.4	1649.5	1662.9	1716.7	1752.0	1740.3	1725.1	1725.1	1731.9
35°	3117.3	2643.2	1763.8	1555.3	1575.5	1639.4	1673.0	1649.5	1632.6	1627.6	1625.9
37.5°	3114.0	2628.0	1671.3	1435.9	1462.8	1525.0	1546.9	1525.0	1499.8	1488.0	1503.2
40°	3117.3	2618.0	1555.3	1304.8	1331.7	1368.7	1397.3	1380.4	1356.9	1326.6	1341.8
42.5°	3137.5	2631.4	1427.5	1177.0	1177.0	1197.2	1245.9	1234.2	1177.0	1165.2	1178.7
45°	3245.1	2703.7	1299.7	1049.2	1030.7	1044.2	1094.6	1044.2	1008.8	1008.8	1020.6
47.5°	3505.7	2838.2	1187.1	936.5	892.8	919.7	933.2	886.1	859.2	852.5	864.2
50°	4037.1	3107.2	1119.8	844.1	790.3	810.4	802.0	800.4	773.4	776.8	783.5
52.5°	4844.1	3631.8	1099.6	798.7	731.4	736.5	728.1	731.4	726.4	743.2	748.2
55°	5723.5	4185.0	1124.9	805.4	691.1	655.7	659.1	675.9	696.1	723.0	728.1
57.5°	6380.9	4462.5	1190.4	850.8	640.6	586.8	595.2	627.2	665.8	687.7	699.5
60°	6870.2	4428.8	1286.3	862.6	580.1	524.6	539.7	586.8	620.4	638.9	650.7
62.5°	7030.0	4218.7	1309.8	776.8	501.1	465.8	502.7	551.5	566.6	586.8	595.2
65°	6898.8	3921.0	1138.3	630.5	440.5	422.0	475.8	512.8	533.0	543.1	544.8
66°	6744.1	3742.8	1045.8	573.4	418.7	408.6	465.8	496.0	516.2	514.5	516.2
67.5°	6404.5	3369.5	896.2	492.7	386.7	388.4	448.9	469.1	475.8	470.8	470.8
70°	5249.4	2372.5	642.3	373.3	339.6	363.2	403.5	408.6	423.7	417.0	417.0
72.5°	3236.7	1165.2	430.4	285.8	302.7	339.6	338.0	354.8	390.1	400.2	406.9
75°	1590.6	472.5	284.2	242.1	270.7	284.2	280.8	322.8	373.3	417.0	432.1
77.5°	603.6	235.4	198.4	211.9	218.6	213.5	223.6	292.6	373.3	452.3	467.4
80°	186.6	163.1	156.4	174.9	164.8	156.4	168.1	242.1	316.1	343.0	343.0
82.5°	112.7	127.8	121.1	119.4	111.0	112.7	121.1	173.2	243.8	255.6	255.6
85°	79.0	84.1	68.9	65.6	63.9	62.2	62.2	100.9	144.6	142.9	148.0
87.5°	30.3	33.6	25.2	25.2	23.5	16.8	13.5	16.8	16.8	11.8	8.4
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)