

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: P1211705

Luminaire Tested: **ARCH4-90-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211705
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: ARCH4-90-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14977 lumens
Efficiency: N/A
Efficacy: 160.9 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): 93.1
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

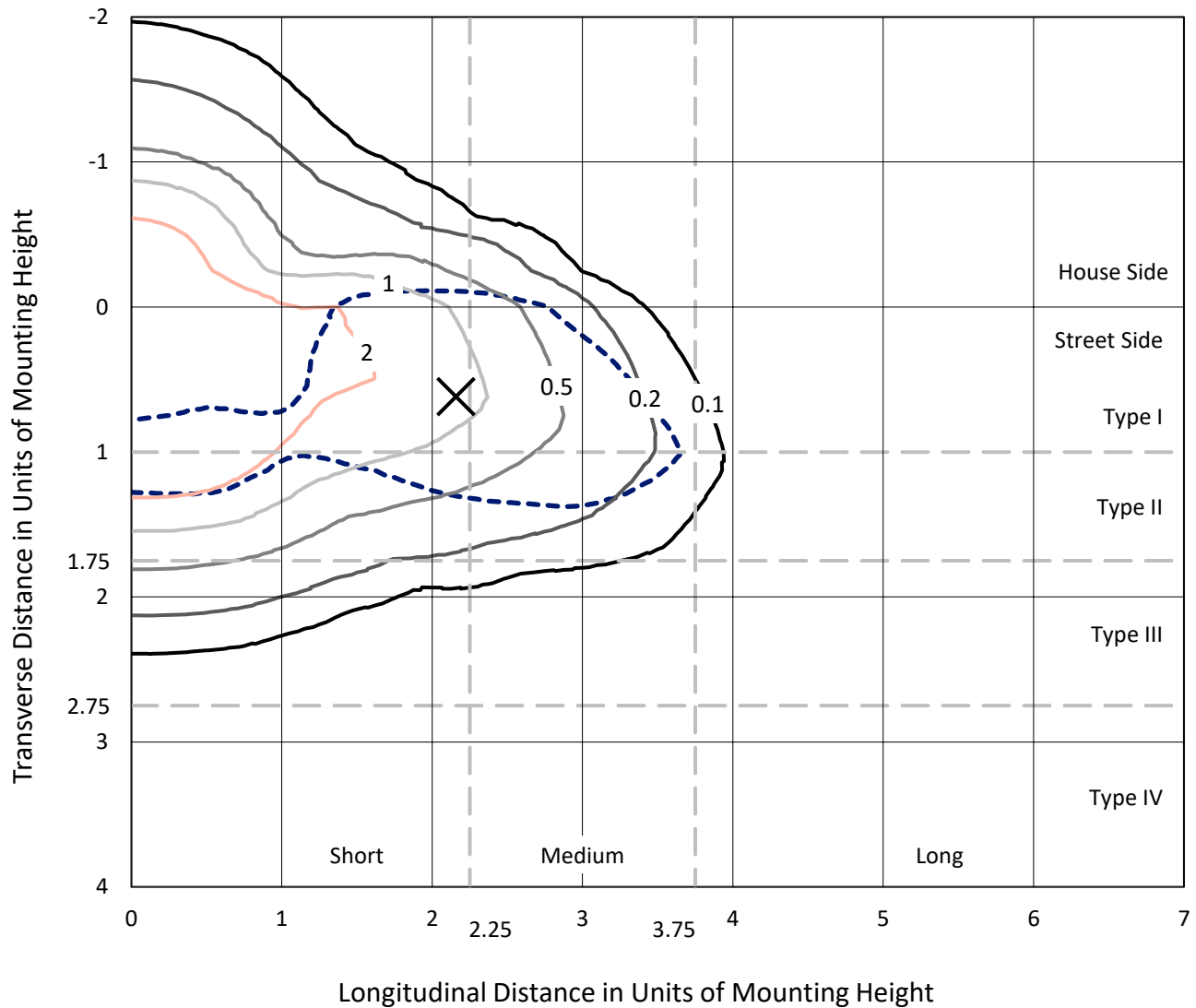


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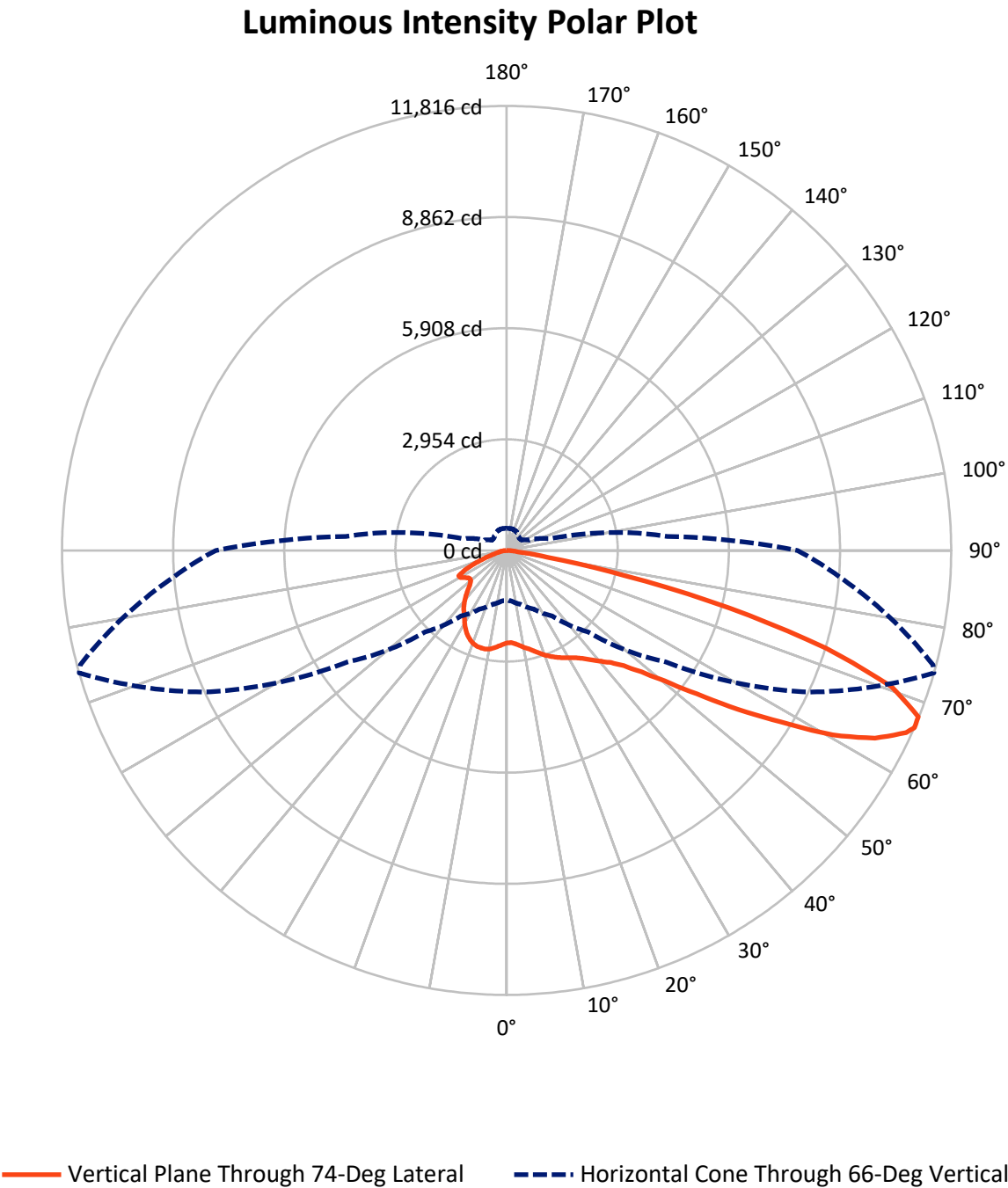
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3647.3	0.0	3647.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	11329.7	0.0	11329.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	14977.0	0.0	14977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.6
10°-20°	720.2	4.8
20°-30°	1351.5	9.0
30°-40°	2079.0	13.9
40°-50°	2796.4	18.7
50°-60°	3307.1	22.1
60°-70°	3059.2	20.4
70°-80°	1287.0	8.6
80°-90°	142.4	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°	14977.0	100.0
0°-180°	14977.0	100.0

Coefficient of Utilization



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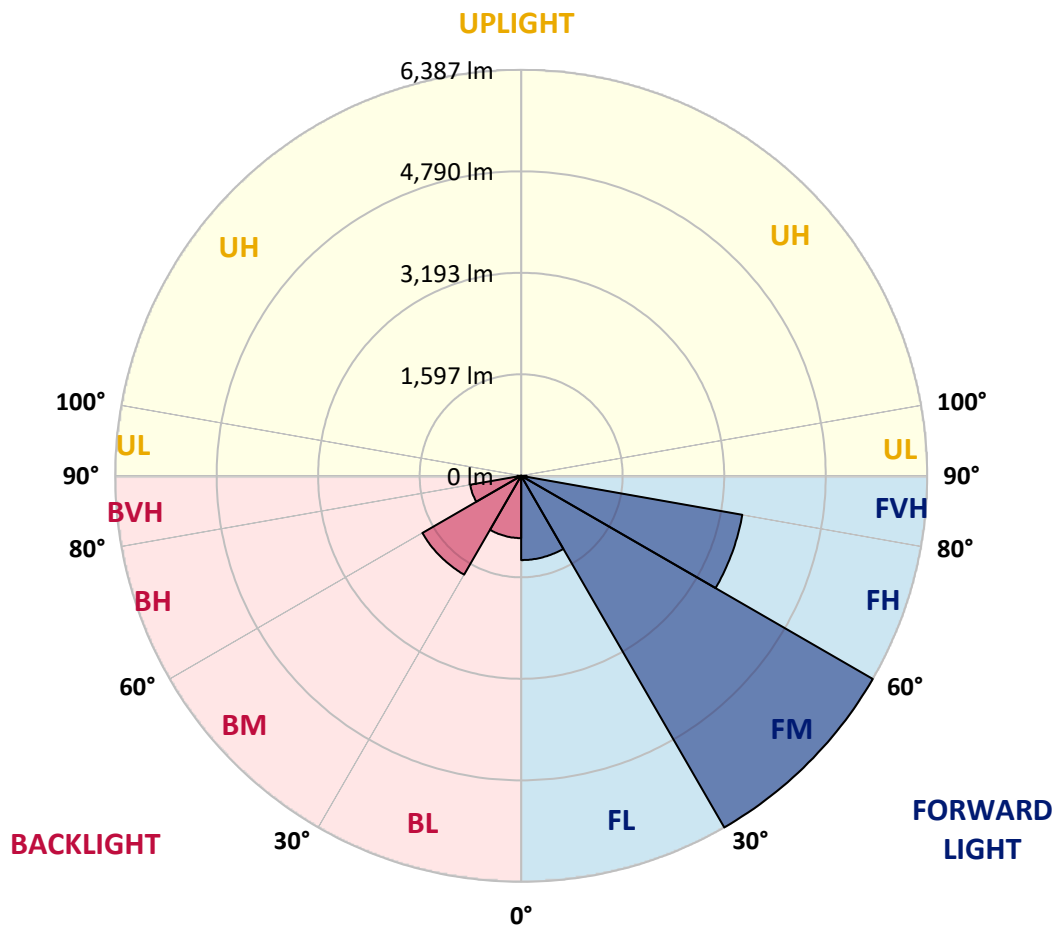
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.6	8.9			
FM	(30°-60°)	6386.8	42.6			
FH	(60°-80°)	3532.0	23.6			G2/5000
FVH	(80°-90°)	85.2	0.6			G1/100
BL	(0°-30°)	980.3	6.5	B2/1000		
BM	(30°-60°)	1795.6	12.0	B2/2500		
BH	(60°-80°)	814.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	57.2	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°	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2
2.5°	2447.5	2443.7	2451.4	2462.9	2468.7	2459.1	2455.2	2453.3	2453.3	2447.5	2457.2
5°	2331.9	2330.0	2347.3	2368.5	2409.0	2437.9	2476.4	2499.6	2491.8	2480.3	2488.0
7.5°	2181.6	2177.7	2198.9	2239.4	2295.3	2358.9	2453.3	2526.5	2555.4	2551.6	2549.7
10°	2239.4	2235.5	2233.6	2222.0	2241.3	2303.0	2401.3	2530.4	2628.7	2630.6	2632.5
12.5°	2439.8	2449.4	2439.8	2403.2	2360.8	2337.7	2395.5	2540.0	2690.3	2701.9	2750.1
15°	2713.5	2703.8	2684.6	2642.2	2576.6	2507.3	2464.9	2584.3	2779.0	2788.6	2894.6
17.5°	2954.4	2962.1	2950.5	2910.0	2833.0	2742.4	2613.3	2661.4	2873.4	2900.4	3048.8
20°	3216.5	3247.3	3231.9	3181.8	3118.2	2983.3	2821.4	2773.2	2977.5	2996.8	3208.8
22.5°	3519.0	3551.8	3522.9	3474.7	3422.7	3256.9	3048.8	2910.0	3064.2	3104.7	3362.9
25°	3881.3	3912.2	3885.2	3810.0	3744.5	3542.2	3293.6	3064.2	3149.0	3193.3	3488.2
27.5°	4168.5	4191.6	4216.7	4172.3	4072.1	3862.1	3547.9	3224.2	3233.8	3280.1	3603.8
30°	4424.8	4482.6	4503.8	4509.6	4424.8	4189.7	3808.1	3389.9	3307.0	3355.2	3719.5
32.5°	4775.6	4862.3	4827.6	4862.3	4812.2	4498.0	4077.9	3561.4	3401.5	3445.8	3829.3
35°	5288.2	5357.6	5267.0	5240.0	5159.1	4810.2	4338.1	3738.7	3526.7	3574.9	3933.4
37.5°	5839.4	5918.4	5787.3	5679.4	5525.2	5118.6	4561.6	3971.9	3700.2	3738.7	4029.7
40°	6321.2	6386.7	6273.0	6130.4	5872.1	5390.3	4754.4	4135.7	3873.6	3921.8	4141.5
42.5°	6766.3	6808.7	6681.5	6544.7	6199.7	5635.1	4962.5	4309.2	4076.0	4122.2	4232.1
45°	7217.3	7250.1	7072.8	6878.1	6473.4	5858.6	5191.8	4552.0	4372.8	4434.4	4378.6
47.5°	7298.2	7307.9	7277.0	7146.0	6689.2	6072.5	5475.1	4877.7	4825.7	4893.1	4631.0
50°	6737.4	6824.1	7014.9	7144.1	6776.0	6251.8	5758.4	5344.1	5450.1	5536.8	5155.2
52.5°	5648.6	5731.4	6172.8	6662.3	6567.8	6292.2	6062.9	5935.7	6330.8	6434.9	5868.3
55°	4500.0	4573.2	5039.6	5744.9	5895.2	6107.2	6388.6	6691.2	7454.3	7523.7	6650.7
57.5°	3706.0	3746.4	4079.8	4758.2	4999.1	5515.6	6564.0	7589.2	8597.2	8703.1	7331.0
60°	3039.2	3083.5	3332.1	3891.0	4210.9	4669.6	6425.2	8475.7	9961.6	9961.6	8204.0
62.5°	2287.6	2326.1	2557.4	2994.8	3532.5	3952.6	5982.0	9063.5	10990.7	10944.5	8836.1
65°	1570.7	1601.5	1769.2	2060.2	2543.9	3368.7	5376.8	9071.2	11672.9	11611.3	9105.9
66°	1318.2	1345.2	1487.8	1722.9	2129.5	3056.5	5162.9	8907.4	11815.5	11728.8	8992.2
67.5°	1040.7	1059.9	1154.4	1293.1	1561.0	2474.5	4825.7	8443.0	11802.1	11750.0	8703.1
70°	743.9	757.4	826.8	855.7	923.1	1431.9	3833.2	7394.6	10855.8	10871.2	7566.1
72.5°	576.2	597.4	639.8	645.6	630.2	761.2	2326.1	6168.9	8880.4	8874.7	5615.8
75°	464.5	476.0	497.2	508.8	504.9	491.4	984.8	4602.1	6113.0	6184.3	3145.2
77.5°	366.2	364.2	383.5	398.9	410.5	385.4	451.0	2698.1	3204.9	3114.3	1181.4
80°	269.8	269.8	296.8	302.6	319.9	323.8	300.6	1040.7	1100.4	1000.2	306.4
82.5°	177.3	177.3	206.2	210.1	227.4	252.5	217.8	312.2	304.5	289.1	138.8
85°	96.4	92.5	102.1	115.6	125.3	148.4	131.0	156.1	160.0	158.0	92.5
87.5°	19.3	17.3	27.0	30.8	34.7	46.3	42.4	63.6	88.7	86.7	40.5
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°	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2	2455.2
2.5°	2470.6	2468.7	2489.9	2515.0	2543.9	2561.2	2568.9	2582.4	2572.8	2576.6	2588.2
5°	2507.3	2513.0	2543.9	2576.6	2590.1	2580.5	2559.3	2551.6	2534.2	2530.4	2526.5
7.5°	2561.2	2570.9	2601.7	2609.4	2568.9	2501.5	2453.3	2426.3	2397.4	2389.7	2385.8
10°	2649.9	2655.7	2663.4	2584.3	2484.1	2393.6	2333.8	2308.8	2289.5	2274.1	2277.9
12.5°	2761.6	2757.8	2698.1	2534.2	2391.6	2299.1	2258.7	2243.2	2229.7	2220.1	2218.2
15°	2902.3	2875.4	2703.8	2464.9	2304.9	2227.8	2198.9	2193.1	2177.7	2177.7	2175.8
17.5°	3044.9	2975.6	2700.0	2391.6	2222.0	2179.6	2162.3	2158.4	2154.6	2152.7	2158.4
20°	3187.6	3064.2	2669.1	2301.1	2164.2	2139.2	2135.3	2137.2	2133.4	2139.2	2135.3
22.5°	3312.8	3122.0	2611.3	2204.7	2123.8	2121.8	2112.2	2116.0	2129.5	2131.5	2137.2
25°	3409.2	3143.2	2526.5	2116.0	2094.8	2091.0	2102.6	2118.0	2129.5	2131.5	2141.1
27.5°	3488.2	3131.7	2420.5	2046.7	2044.7	2065.9	2100.6	2106.4	2108.3	2108.3	2100.6
30°	3547.9	3106.6	2285.6	1969.6	1979.2	2031.2	2064.0	2064.0	2048.6	2044.7	2056.3
32.5°	3561.4	3073.9	2139.2	1890.6	1906.0	1967.7	2008.1	1994.6	1977.3	1977.3	1985.0
35°	3573.0	3029.5	2021.6	1782.6	1805.8	1879.0	1917.5	1890.6	1871.3	1865.5	1863.6
37.5°	3569.1	3012.2	1915.6	1645.8	1676.6	1748.0	1773.0	1748.0	1719.0	1705.6	1722.9
40°	3573.0	3000.6	1782.6	1495.5	1526.3	1568.7	1601.5	1582.2	1555.2	1520.5	1537.9
42.5°	3596.1	3016.0	1636.2	1349.0	1349.0	1372.2	1428.0	1414.6	1349.0	1335.5	1351.0
45°	3719.5	3098.9	1489.7	1202.6	1181.4	1196.8	1254.6	1196.8	1156.3	1156.3	1169.8
47.5°	4018.2	3253.1	1360.6	1073.4	1023.3	1054.2	1069.6	1015.6	984.8	977.1	990.6
50°	4627.2	3561.4	1283.5	967.4	905.8	928.9	919.3	917.3	886.5	890.4	898.1
52.5°	5552.2	4162.7	1260.4	915.4	838.3	844.1	834.5	838.3	832.5	851.8	857.6
55°	6560.1	4796.8	1289.3	923.1	792.1	751.6	755.5	774.7	797.9	828.7	834.5
57.5°	7313.7	5114.7	1364.4	975.2	734.3	672.6	682.2	718.8	763.2	788.2	801.7
60°	7874.5	5076.2	1474.3	988.6	664.9	601.3	618.6	672.6	711.1	732.3	745.8
62.5°	8057.5	4835.3	1501.3	890.4	574.3	533.8	576.2	632.1	649.5	672.6	682.2
65°	7907.2	4494.2	1304.7	722.7	504.9	483.7	545.4	587.8	610.9	622.5	624.4
66°	7729.9	4289.9	1198.7	657.2	479.9	468.3	533.8	568.5	591.6	589.7	591.6
67.5°	7340.6	3862.1	1027.2	564.7	443.3	445.2	514.6	537.7	545.4	539.6	539.6
70°	6016.7	2719.3	736.2	427.8	389.3	416.3	462.5	468.3	485.6	477.9	477.9
72.5°	3709.8	1335.5	493.4	327.6	346.9	389.3	387.4	406.6	447.1	458.7	466.4
75°	1823.1	541.5	325.7	277.5	310.3	325.7	321.8	370.0	427.8	477.9	495.3
77.5°	691.9	269.8	227.4	242.8	250.5	244.8	256.3	335.3	427.8	518.4	535.8
80°	213.9	186.9	179.2	200.4	188.9	179.2	192.7	277.5	362.3	393.1	393.1
82.5°	129.1	146.5	138.8	136.8	127.2	129.1	138.8	198.5	279.4	292.9	292.9
85°	90.6	96.4	79.0	75.2	73.2	71.3	71.3	115.6	165.7	163.8	169.6
87.5°	34.7	38.5	28.9	28.9	27.0	19.3	15.4	19.3	19.3	13.5	9.6
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)