

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: P1210361

Luminaire Tested: **ARCH3-100-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210361
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: ARCH3-100-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14818 lumens
Efficiency: N/A
Efficacy: 144.4 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): 102.6
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



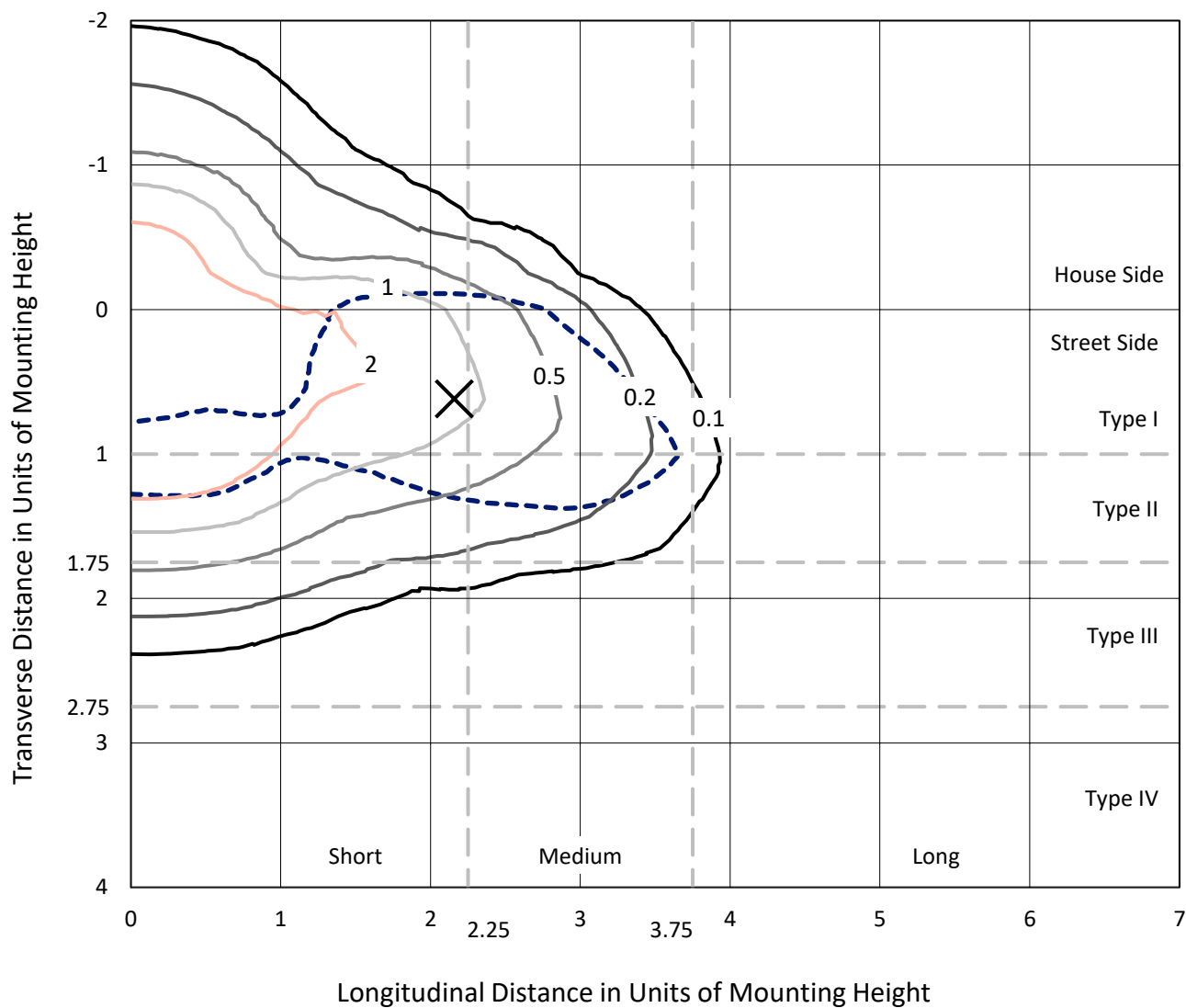
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

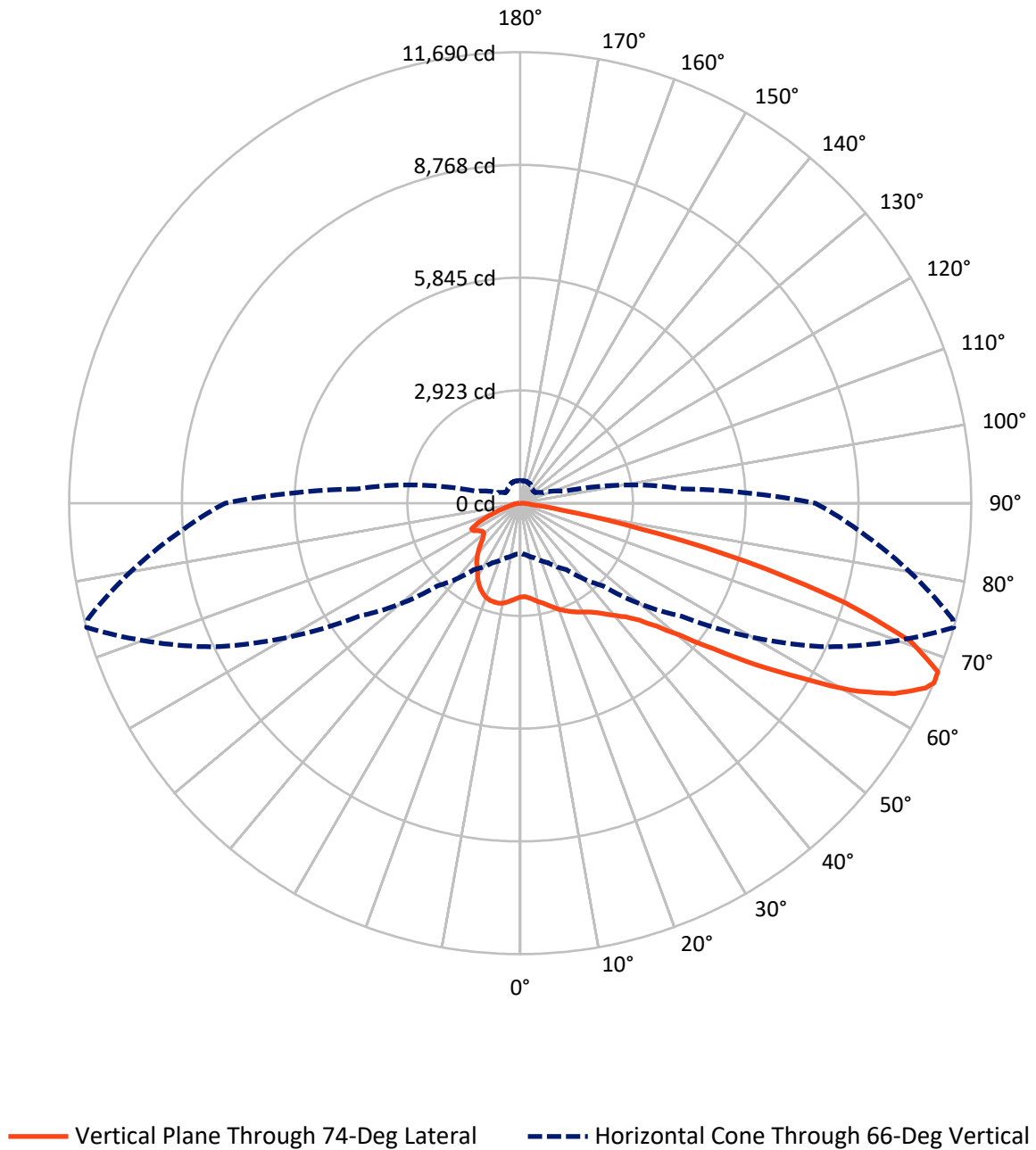
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3608.6	0.0	3608.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	11209.4	0.0	11209.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	14818.0	0.0	14818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	1.6
10°-20°	712.6	4.8
20°-30°	1337.2	9.0
30°-40°	2056.9	13.9
40°-50°	2766.7	18.7
50°-60°	3272.0	22.1
60°-70°	3026.7	20.4
70°-80°	1273.3	8.6
80°-90°	140.9	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°	14818.0	100.0
0°-180°	14818.0	100.0

Coefficient of Utilization



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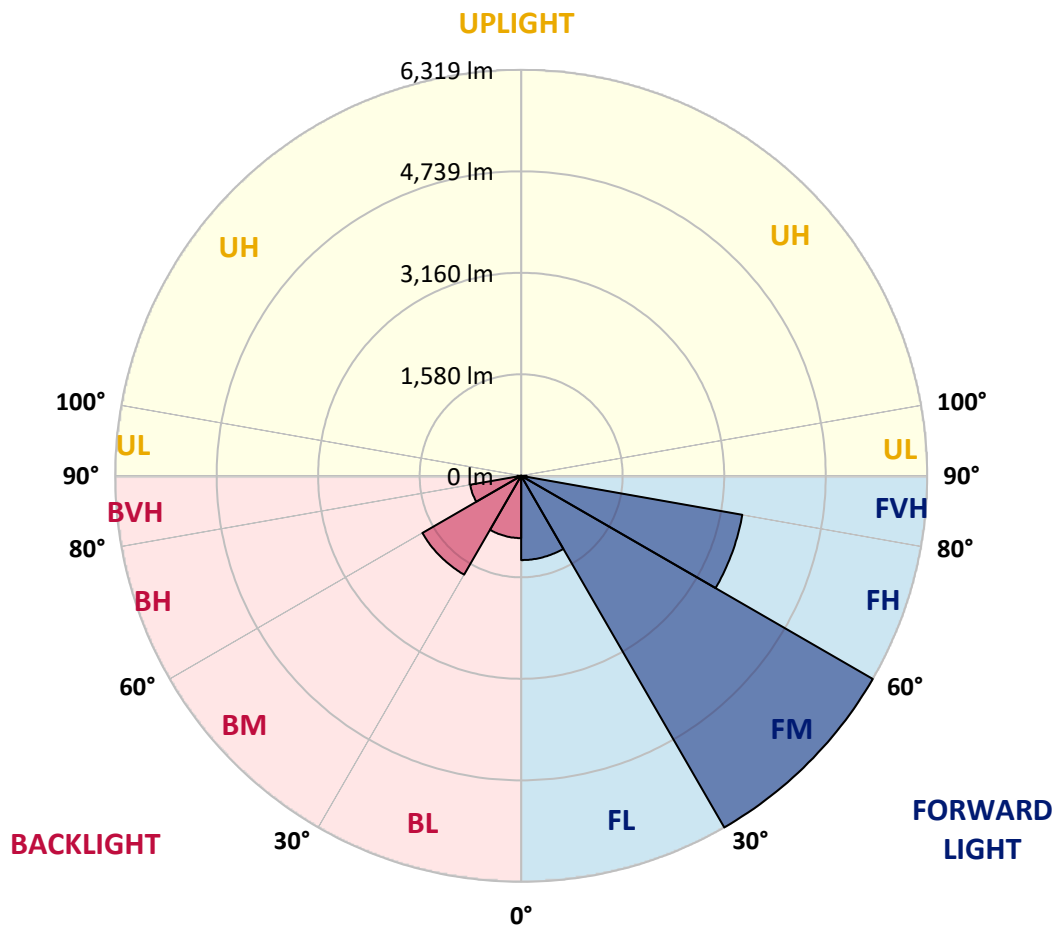
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1311.6	8.9			
FM	(30°-60°)	6319.0	42.6			
FH	(60°-80°)	3494.5	23.6			G2/5000
FVH	(80°-90°)	84.3	0.6			G1/100
BL	(0°-30°)	969.9	6.5	B2/1000		
BM	(30°-60°)	1776.5	12.0	B2/2500		
BH	(60°-80°)	805.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	56.6	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°	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2
2.5°	2421.5	2417.7	2425.3	2436.8	2442.5	2433.0	2429.2	2427.3	2427.3	2421.5	2431.1
5°	2307.1	2305.2	2322.4	2343.4	2383.4	2412.0	2450.1	2473.0	2465.4	2454.0	2461.6
7.5°	2158.4	2154.6	2175.6	2215.6	2270.9	2333.8	2427.3	2499.7	2528.3	2524.5	2522.6
10°	2215.6	2211.8	2209.9	2198.4	2217.5	2278.5	2375.8	2503.5	2600.8	2602.7	2604.6
12.5°	2413.9	2423.4	2413.9	2377.7	2335.7	2312.9	2370.1	2513.1	2661.8	2673.2	2720.9
15°	2684.7	2675.1	2656.1	2614.1	2549.3	2480.6	2438.7	2556.9	2749.5	2759.0	2863.9
17.5°	2923.0	2930.6	2919.2	2879.1	2802.9	2713.3	2585.5	2633.2	2842.9	2869.6	3016.4
20°	3182.3	3212.8	3197.6	3148.0	3085.1	2951.6	2791.4	2743.8	2945.9	2965.0	3174.7
22.5°	3481.7	3514.1	3485.5	3437.8	3386.3	3222.4	3016.4	2879.1	3031.7	3071.7	3327.2
25°	3840.1	3870.6	3844.0	3769.6	3704.8	3504.6	3258.6	3031.7	3115.6	3159.4	3451.2
27.5°	4124.2	4147.1	4171.9	4128.1	4028.9	3821.1	3510.3	3189.9	3199.5	3245.2	3565.6
30°	4377.8	4435.0	4456.0	4461.7	4377.8	4145.2	3767.7	3353.9	3271.9	3319.6	3680.0
32.5°	4724.9	4810.7	4776.3	4810.7	4761.1	4450.3	4034.6	3523.6	3365.4	3409.2	3788.7
35°	5232.0	5300.7	5211.1	5184.4	5104.3	4759.2	4292.0	3699.0	3489.3	3537.0	3891.6
37.5°	5777.4	5855.5	5725.9	5619.1	5466.6	5064.3	4513.2	3929.8	3660.9	3699.0	3987.0
40°	6254.0	6318.9	6206.4	6065.3	5809.8	5333.1	4703.9	4091.8	3832.5	3880.2	4097.5
42.5°	6694.5	6736.4	6610.6	6475.2	6133.9	5575.3	4909.8	4263.4	4032.7	4078.5	4187.2
45°	7140.7	7173.1	6997.7	6805.1	6404.7	5796.4	5136.7	4503.7	4326.4	4387.4	4332.1
47.5°	7220.8	7230.3	7199.8	7070.1	6618.2	6008.1	5417.0	4825.9	4774.4	4841.2	4581.9
50°	6665.9	6751.7	6940.5	7068.2	6704.0	6185.4	5697.3	5287.3	5392.2	5478.0	5100.5
52.5°	5588.6	5670.6	6107.2	6591.5	6498.1	6225.4	5998.5	5872.7	6263.6	6366.5	5806.0
55°	4452.2	4524.6	4986.1	5683.9	5832.7	6042.4	6320.8	6620.1	7375.2	7443.8	6580.1
57.5°	3666.6	3706.7	4036.5	4707.7	4946.0	5457.0	6494.3	7508.7	8505.9	8610.8	7253.2
60°	3006.9	3050.8	3296.7	3849.7	4166.2	4620.0	6357.0	8385.8	9855.8	9855.8	8116.9
62.5°	2263.3	2301.4	2530.2	2963.0	3495.0	3910.7	5918.5	8967.3	10874.0	10828.3	8742.3
65°	1554.0	1584.5	1750.4	2038.3	2516.9	3332.9	5319.8	8974.9	11549.0	11488.0	9009.3
66°	1304.2	1330.9	1472.0	1704.6	2106.9	3024.1	5108.1	8812.9	11690.1	11604.3	8896.8
67.5°	1029.6	1048.7	1142.1	1279.4	1544.4	2448.2	4774.4	8353.3	11676.8	11625.3	8610.8
70°	736.0	749.3	818.0	846.6	913.3	1416.7	3792.5	7316.1	10740.6	10755.8	7485.8
72.5°	570.1	591.1	633.0	638.8	623.5	753.2	2301.4	6103.4	8786.2	8780.5	5556.2
75°	459.5	471.0	491.9	503.4	499.6	486.2	974.3	4553.3	6048.1	6118.7	3111.8
77.5°	362.3	360.4	379.4	394.7	406.1	381.3	446.2	2669.4	3170.9	3081.3	1168.8
80°	266.9	266.9	293.6	299.4	316.5	320.3	297.4	1029.6	1088.7	989.6	303.2
82.5°	175.4	175.4	204.0	207.8	225.0	249.8	215.5	308.9	301.3	286.0	137.3
85°	95.3	91.5	101.1	114.4	123.9	146.8	129.7	154.4	158.3	156.4	91.5
87.5°	19.1	17.2	26.7	30.5	34.3	45.8	41.9	62.9	87.7	85.8	40.0
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°	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2	2429.2
2.5°	2444.4	2442.5	2463.5	2488.3	2516.9	2534.0	2541.7	2555.0	2545.5	2549.3	2560.7
5°	2480.6	2486.4	2516.9	2549.3	2562.6	2553.1	2532.1	2524.5	2507.3	2503.5	2499.7
7.5°	2534.0	2543.6	2574.1	2581.7	2541.7	2474.9	2427.3	2400.6	2372.0	2364.3	2360.5
10°	2621.7	2627.5	2635.1	2556.9	2457.8	2368.1	2309.0	2284.3	2265.2	2249.9	2253.7
12.5°	2732.3	2728.5	2669.4	2507.3	2366.2	2274.7	2234.7	2219.4	2206.1	2196.5	2194.6
15°	2871.5	2844.8	2675.1	2438.7	2280.4	2204.2	2175.6	2169.8	2154.6	2154.6	2152.7
17.5°	3012.6	2944.0	2671.3	2366.2	2198.4	2156.5	2139.3	2135.5	2131.7	2129.8	2135.5
20°	3153.7	3031.7	2640.8	2276.6	2141.2	2116.5	2112.6	2114.6	2110.7	2116.5	2112.6
22.5°	3277.7	3088.9	2583.6	2181.3	2101.2	2099.3	2089.8	2093.6	2106.9	2108.8	2114.6
25°	3373.0	3109.9	2499.7	2093.6	2072.6	2068.8	2080.2	2095.5	2106.9	2108.8	2118.4
27.5°	3451.2	3098.4	2394.8	2024.9	2023.0	2044.0	2078.3	2084.0	2086.0	2086.0	2078.3
30°	3510.3	3073.6	2261.4	1948.7	1958.2	2009.7	2042.1	2042.1	2026.8	2023.0	2034.5
32.5°	3523.6	3041.2	2116.5	1870.5	1885.7	1946.8	1986.8	1973.5	1956.3	1956.3	1963.9
35°	3535.1	2997.4	2000.2	1763.7	1786.6	1859.1	1897.2	1870.5	1851.4	1845.7	1843.8
37.5°	3531.2	2980.2	1895.3	1628.3	1658.8	1729.4	1754.2	1729.4	1700.8	1687.4	1704.6
40°	3535.1	2968.8	1763.7	1479.6	1510.1	1552.1	1584.5	1565.4	1538.7	1504.4	1521.6
42.5°	3557.9	2984.0	1618.8	1334.7	1334.7	1357.6	1412.9	1399.5	1334.7	1321.4	1336.6
45°	3680.0	3066.0	1473.9	1189.8	1168.8	1184.1	1241.3	1184.1	1144.0	1144.0	1157.4
47.5°	3975.5	3218.5	1346.1	1062.0	1012.5	1043.0	1058.2	1004.8	974.3	966.7	980.1
50°	4578.0	3523.6	1269.9	957.2	896.2	919.0	909.5	907.6	877.1	880.9	888.5
52.5°	5493.3	4118.5	1247.0	905.7	829.4	835.1	825.6	829.4	823.7	842.8	848.5
55°	6490.5	4745.8	1275.6	913.3	783.7	743.6	747.4	766.5	789.4	819.9	825.6
57.5°	7236.0	5060.4	1350.0	964.8	726.5	665.4	675.0	711.2	755.1	779.8	793.2
60°	7790.9	5022.3	1458.6	978.1	657.8	594.9	612.1	665.4	703.6	724.6	737.9
62.5°	7972.0	4784.0	1485.3	880.9	568.2	528.2	570.1	625.4	642.6	665.4	675.0
65°	7823.3	4446.5	1290.9	715.0	499.6	478.6	539.6	581.5	604.4	615.9	617.8
66°	7647.9	4244.4	1186.0	650.2	474.8	463.3	528.2	562.5	585.4	583.5	585.4
67.5°	7262.7	3821.1	1016.3	558.7	438.5	440.5	509.1	532.0	539.6	533.9	533.9
70°	5952.8	2690.4	728.4	423.3	385.2	411.9	457.6	463.3	480.5	472.9	472.9
72.5°	3670.4	1321.4	488.1	324.1	343.2	385.2	383.3	402.3	442.4	453.8	461.4
75°	1803.8	535.8	322.2	274.6	307.0	322.2	318.4	366.1	423.3	472.9	490.0
77.5°	684.5	266.9	225.0	240.2	247.9	242.2	253.6	331.8	423.3	512.9	530.1
80°	211.6	185.0	177.3	198.3	186.9	177.3	190.7	274.6	358.5	389.0	389.0
82.5°	127.8	144.9	137.3	135.4	125.8	127.8	137.3	196.4	276.5	289.8	289.8
85°	89.6	95.3	78.2	74.4	72.5	70.5	70.5	114.4	164.0	162.1	167.8
87.5°	34.3	38.1	28.6	28.6	26.7	19.1	15.3	19.1	19.1	13.3	9.5
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)