

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: P1211446

Luminaire Tested: **ARCH4-280-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24020 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 279.7
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



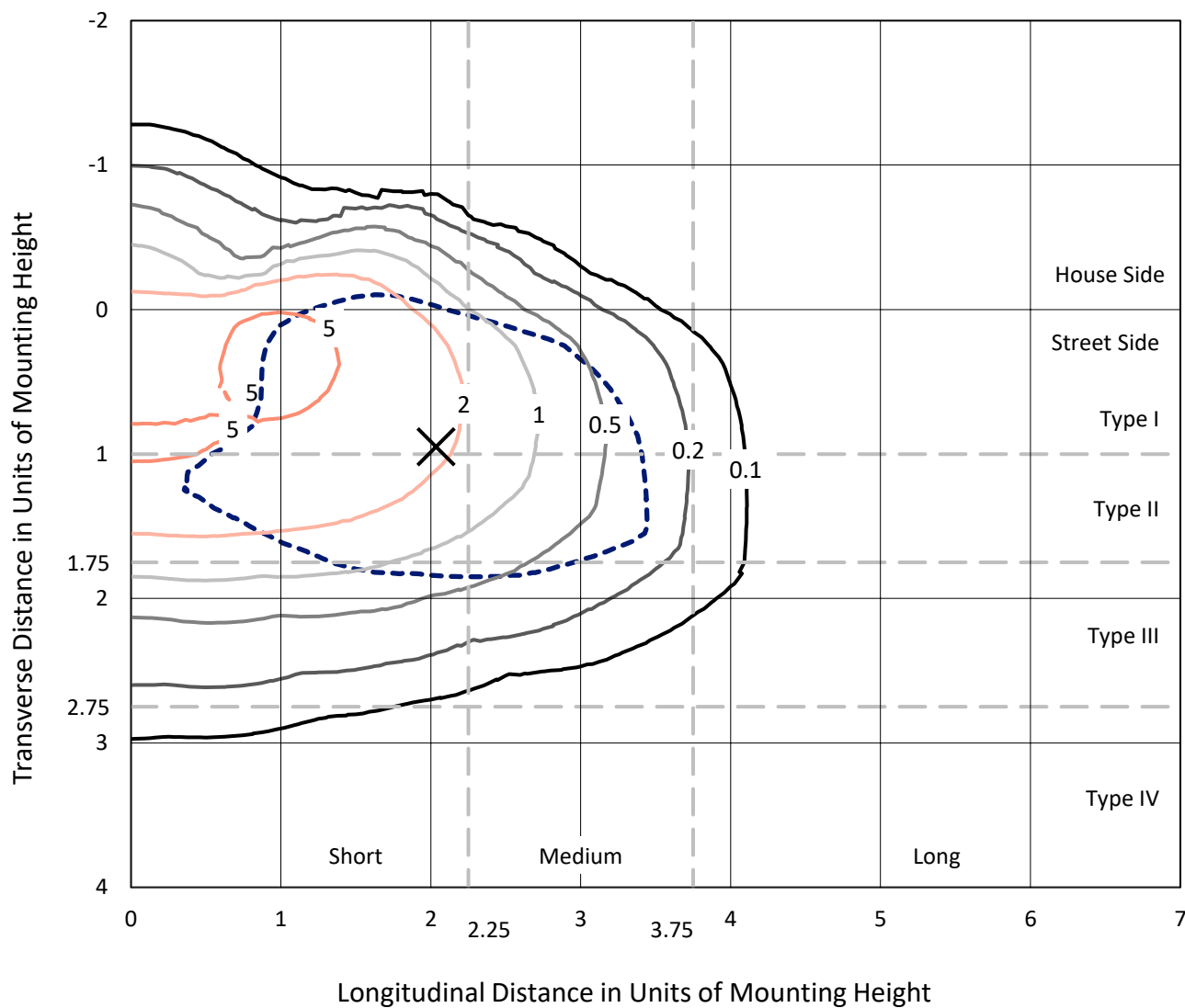
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

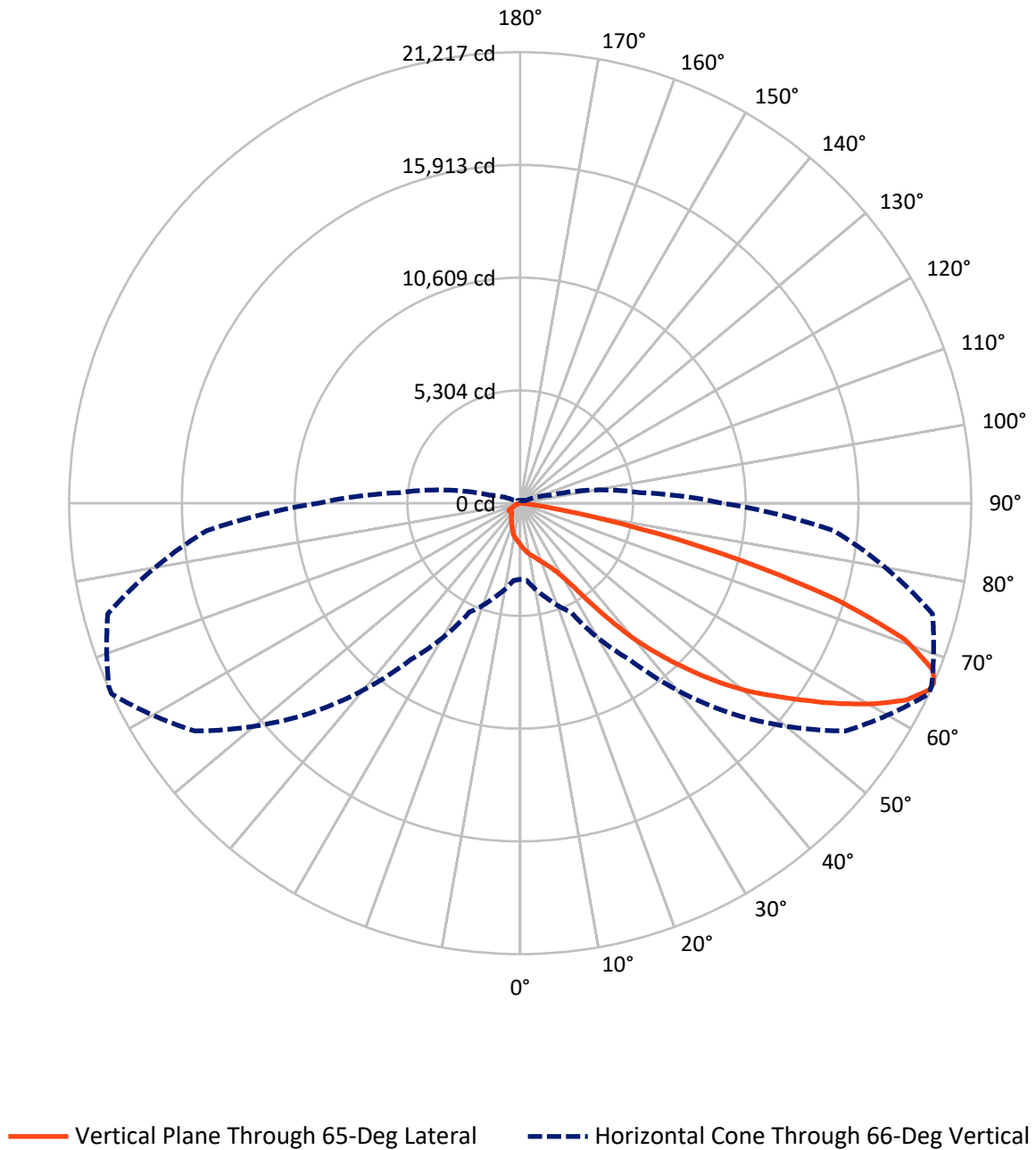
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2834.9	0.0	2834.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21185.1	0.0	21185.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	24020.0	0.0	24020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	0.8
10°-20°	549.2	2.3
20°-30°	1005.2	4.2
30°-40°	2042.6	8.5
40°-50°	4313.3	18.0
50°-60°	6631.0	27.6
60°-70°	6674.6	27.8
70°-80°	2494.0	10.4
80°-90°	124.6	0.5
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°	24020.0	100.0
0°-180°	24020.0	100.0

Coefficient of Utilization



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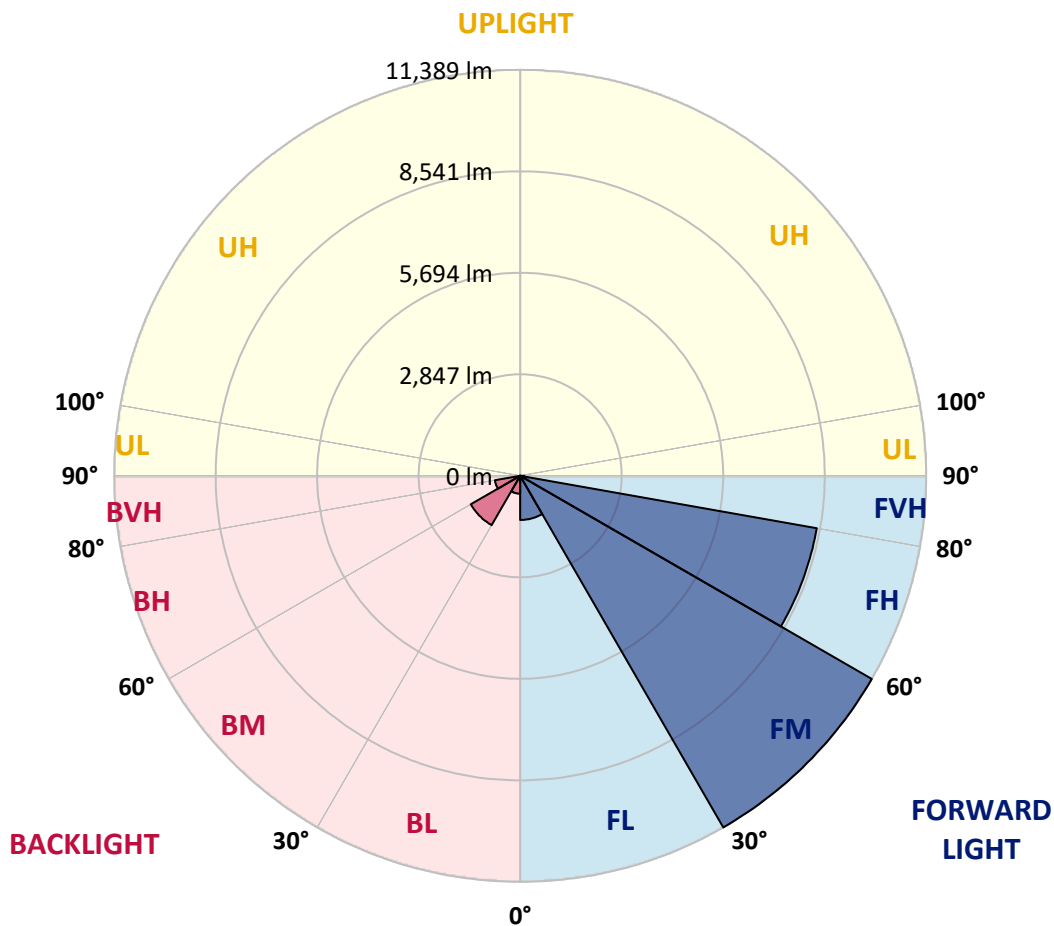
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.2	5.2			
FM	(30°-60°)	11388.6	47.4			
FH	(60°-80°)	8448.4	35.2			G4/12000
FVH	(80°-90°)	109.9	0.5			G2/225
BL	(0°-30°)	501.8	2.1	B2/1000		
BM	(30°-60°)	1598.3	6.7	B2/2500		
BH	(60°-80°)	720.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0
2.5°	2231.5	2235.9	2227.2	2209.7	2192.3	2170.5	2135.7	2079.0	2070.3	2031.0	1987.5
5°	2384.1	2392.8	2379.7	2375.4	2366.7	2336.1	2288.2	2205.4	2196.7	2118.2	2018.0
7.5°	2436.4	2449.5	2440.7	2440.7	2440.7	2427.7	2405.9	2331.8	2318.7	2218.5	2065.9
10°	2475.6	2484.3	2480.0	2497.4	2510.5	2501.8	2488.7	2445.1	2432.0	2331.8	2131.3
12.5°	2536.6	2541.0	2545.3	2554.1	2575.9	2584.6	2580.2	2541.0	2532.3	2462.5	2214.1
15°	2593.3	2593.3	2597.6	2636.9	2667.4	2684.8	2689.2	2658.7	2650.0	2593.3	2318.7
17.5°	2645.6	2650.0	2663.0	2706.6	2758.9	2793.8	2815.6	2802.5	2789.4	2745.8	2440.7
20°	2724.0	2732.8	2745.8	2806.9	2859.2	2915.8	2959.4	2955.0	2950.7	2920.2	2584.6
22.5°	2859.2	2867.9	2889.7	2946.3	2998.6	3068.4	3142.5	3138.1	3125.0	3103.2	2754.6
25°	3064.0	3064.0	3077.1	3125.0	3190.4	3273.2	3342.9	3356.0	3342.9	3329.9	2968.1
27.5°	3321.2	3325.5	3325.5	3377.8	3438.8	3543.4	3630.6	3643.7	3643.7	3630.6	3255.8
30°	3678.6	3665.5	3656.8	3700.3	3765.7	3918.3	4070.8	4097.0	4083.9	4105.7	3661.1
32.5°	4293.1	4271.3	4197.2	4205.9	4245.2	4454.4	4711.5	4803.0	4798.7	4837.9	4314.9
35°	5143.0	5099.4	4990.5	4898.9	4894.6	5121.2	5513.5	5857.8	5853.4	5988.5	5308.6
37.5°	6101.9	6158.5	5953.7	5796.8	5748.8	5927.5	6433.1	7178.4	7217.6	7453.0	6611.8
40°	7383.3	7418.1	7156.6	6934.3	6707.7	6773.1	7439.9	8599.3	8669.0	8930.5	7915.0
42.5°	8499.0	8533.9	8381.3	8111.1	7823.5	7701.4	8455.4	9889.4	9946.0	10307.8	9257.4
45°	9257.4	9283.5	9335.8	9362.0	9035.1	8782.3	9697.6	11214.3	11284.1	11702.5	10569.3
47.5°	9850.1	9871.9	9976.5	10238.1	10172.7	9972.2	10961.6	12591.6	12609.1	13075.4	11846.3
50°	10124.7	10177.0	10434.2	10835.2	11122.8	11179.5	12334.5	13894.8	13942.8	14387.3	13053.6
52.5°	9819.6	9837.1	10486.5	11240.5	11820.2	12395.5	13711.8	15102.1	15241.6	15572.8	14138.9
55°	8791.0	8917.4	9902.4	11227.4	12369.3	13550.5	15184.9	16405.3	16531.7	16740.9	15093.4
57.5°	7596.8	7736.3	8934.9	10665.2	12604.7	14618.3	16549.1	17791.3	17878.5	17935.1	15969.4
60°	6563.9	6694.6	7928.1	9588.6	12369.3	15372.3	17817.4	19168.6	19242.7	19090.1	16409.6
62.5°	5295.5	5426.3	6668.5	8163.4	11445.3	15524.9	18758.9	20393.3	20423.8	20009.7	16139.4
65°	3992.4	4079.5	5116.8	6398.2	9828.4	14714.2	18972.4	21156.0	21125.5	20275.6	15328.7
66°	3578.3	3652.4	4567.7	5657.3	8987.2	13973.3	18684.8	21217.0	21186.5	20079.5	14797.0
67.5°	3085.8	3107.6	3861.6	4628.7	7518.4	12399.9	17808.7	20938.1	20964.3	19539.0	13825.1
70°	2410.2	2405.9	2841.7	3220.9	5134.3	8821.5	14853.7	19181.6	19308.0	17499.3	11789.7
72.5°	1542.9	1490.6	1743.4	1970.0	2989.9	5121.2	10830.8	15633.8	15847.4	13746.6	8782.3
75°	919.6	867.3	928.4	985.0	1433.9	2462.5	6367.7	10639.0	10843.9	8812.8	5225.8
77.5°	688.6	666.8	671.2	623.3	636.3	924.0	2907.1	5622.4	5770.6	3608.8	1983.1
80°	527.4	470.7	440.2	462.0	418.4	366.1	1080.9	1935.2	2026.7	854.3	414.1
82.5°	353.0	305.1	283.3	309.5	265.9	204.8	261.5	374.8	366.1	231.0	161.3
85°	183.1	156.9	156.9	156.9	135.1	100.2	113.3	152.5	152.5	122.0	95.9
87.5°	52.3	47.9	56.7	52.3	39.2	39.2	43.6	52.3	52.3	47.9	43.6
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°	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0	1957.0
2.5°	1952.6	1935.2	1887.2	1852.4	1817.5	1787.0	1752.1	1743.4	1726.0	1730.3	1721.6
5°	1965.7	1917.7	1834.9	1756.5	1695.4	1643.1	1577.8	1551.6	1516.7	1503.7	1495.0
7.5°	1983.1	1913.4	1791.3	1682.4	1577.8	1473.2	1368.6	1307.5	1268.3	1250.9	1237.8
10°	2022.3	1930.8	1769.5	1599.6	1420.9	1272.7	1168.1	1124.5	1098.3	1094.0	1089.6
12.5°	2074.6	1957.0	1747.7	1495.0	1259.6	1120.1	1054.8	1041.7	1037.3	1037.3	1033.0
15°	2153.1	2000.5	1712.9	1372.9	1133.2	1037.3	1006.8	985.0	976.3	976.3	976.3
17.5°	2231.5	2052.8	1660.6	1246.5	1046.0	985.0	954.5	941.4	932.7	937.1	932.7
20°	2331.8	2113.9	1590.8	1137.6	989.4	941.4	910.9	897.8	893.5	893.5	893.5
22.5°	2445.1	2183.6	1503.7	1054.8	941.4	897.8	867.3	854.3	845.5	849.9	849.9
25°	2597.6	2270.8	1412.1	971.9	893.5	854.3	819.4	802.0	802.0	806.3	810.7
27.5°	2793.8	2375.4	1320.6	919.6	849.9	810.7	771.4	754.0	758.4	767.1	767.1
30°	3081.4	2519.2	1229.1	863.0	802.0	758.4	723.5	706.1	714.8	732.2	732.2
32.5°	3491.1	2754.6	1150.6	797.6	732.2	684.3	649.4	636.3	658.1	693.0	693.0
35°	4223.4	3186.0	1102.7	732.2	658.1	601.5	557.9	544.8	575.3	618.9	618.9
37.5°	5204.0	3879.0	1120.1	675.6	597.1	531.7	483.8	466.4	488.1	527.4	540.5
40°	6298.0	4715.9	1272.7	627.6	540.5	475.1	427.1	409.7	422.8	440.2	444.6
42.5°	7392.0	5605.0	1560.3	592.8	496.9	427.1	383.5	370.5	379.2	383.5	387.9
45°	8481.6	6485.4	1922.1	571.0	457.6	387.9	344.3	344.3	348.7	348.7	348.7
47.5°	9514.5	7344.0	2301.3	566.6	422.8	348.7	313.8	318.2	318.2	322.5	322.5
50°	10490.8	8111.1	2684.8	579.7	392.3	313.8	287.7	287.7	287.7	292.0	287.7
52.5°	11305.9	8782.3	3085.8	601.5	361.8	287.7	261.5	261.5	261.5	265.9	261.5
55°	12077.3	9392.5	3495.5	632.0	335.6	265.9	239.7	231.0	231.0	235.4	231.0
57.5°	12704.9	9797.8	3883.4	636.3	313.8	244.1	222.3	209.2	209.2	209.2	209.2
60°	12731.1	9562.5	3996.7	557.9	287.7	222.3	200.5	183.1	187.4	187.4	187.4
62.5°	11898.6	8324.7	3212.2	418.4	257.1	200.5	183.1	165.6	165.6	165.6	165.6
65°	10264.2	6476.7	1882.9	331.2	222.3	178.7	161.3	148.2	148.2	148.2	143.8
66°	9497.1	5679.1	1442.7	300.7	209.2	174.3	156.9	143.8	139.5	135.1	135.1
67.5°	8246.2	4489.2	902.2	265.9	191.8	161.3	143.8	130.8	126.4	122.0	122.0
70°	6210.8	2850.4	440.2	204.8	165.6	139.5	126.4	113.3	109.0	104.6	100.2
72.5°	4358.5	1669.3	231.0	156.9	135.1	122.0	109.0	95.9	91.5	87.2	87.2
75°	2462.5	806.3	152.5	113.3	109.0	100.2	91.5	78.5	74.1	74.1	74.1
77.5°	932.7	278.9	104.6	82.8	87.2	78.5	65.4	65.4	61.0	65.4	61.0
80°	244.1	122.0	65.4	61.0	65.4	56.7	47.9	52.3	52.3	52.3	52.3
82.5°	130.8	69.7	39.2	43.6	39.2	39.2	30.5	34.9	39.2	34.9	39.2
85°	91.5	34.9	21.8	21.8	17.4	17.4	13.1	17.4	21.8	17.4	17.4
87.5°	47.9	13.1	13.1	13.1	13.1	8.7	4.4	0.0	4.4	4.4	4.4
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)