

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: P1211198

Luminaire Tested: **ARCH4-200-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211198
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: ARCH4-200-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

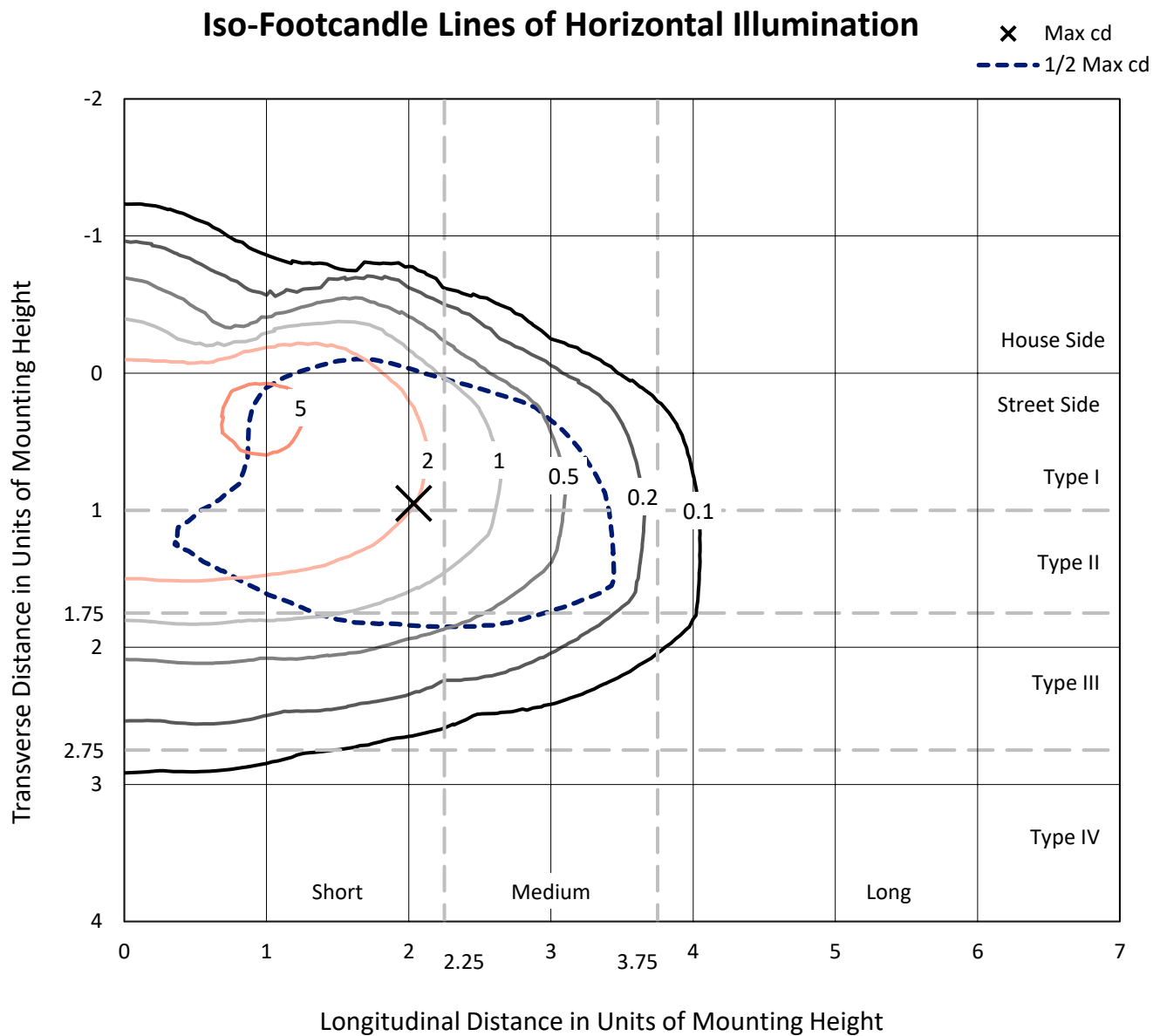
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21484 lumens
Efficiency: N/A
Efficacy: 105.5 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): 203.7
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



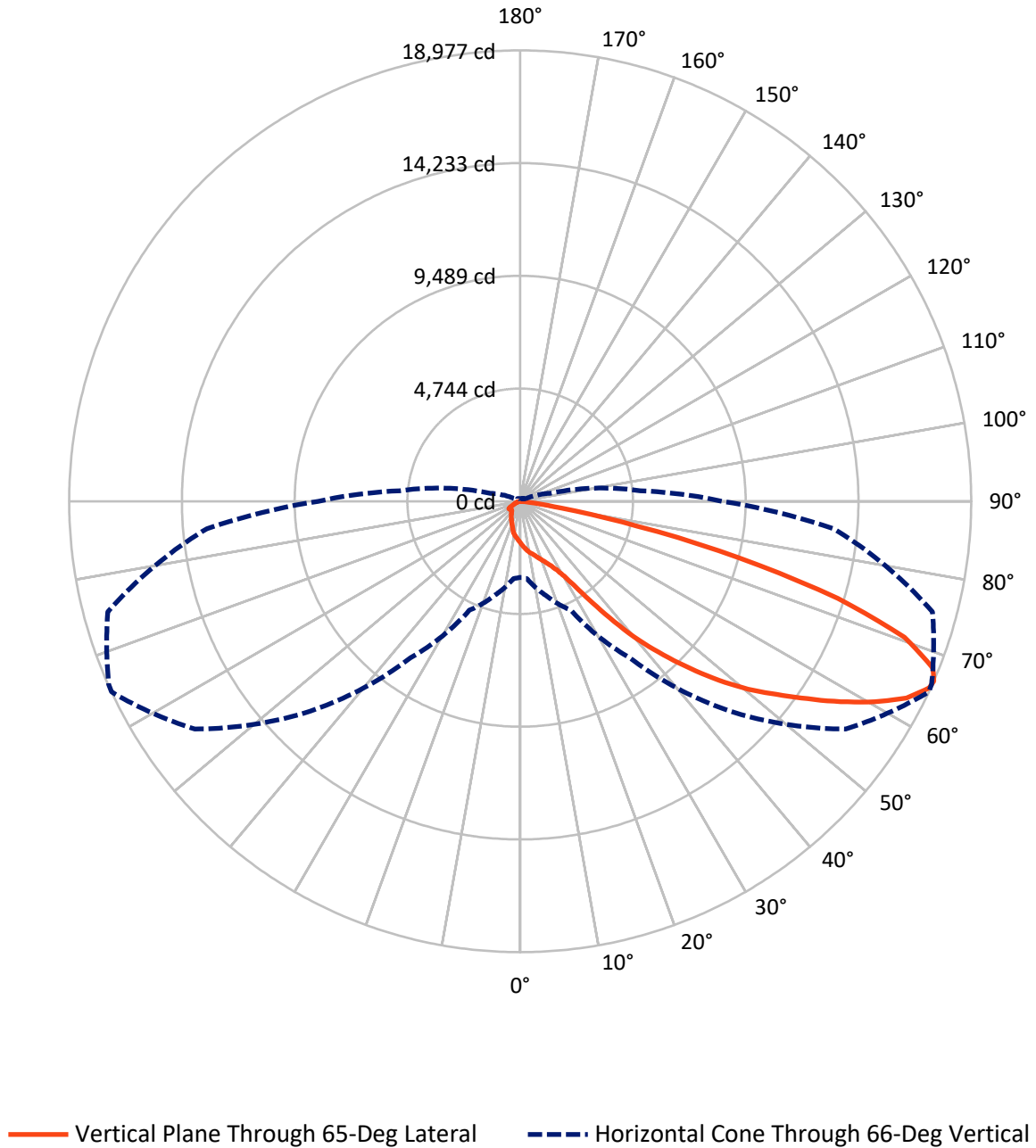
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Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2535.6	0.0	2535.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18948.4	0.0	18948.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	21484.0	0.0	21484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	0.8
10°-20°	491.2	2.3
20°-30°	899.1	4.2
30°-40°	1826.9	8.5
40°-50°	3857.9	18.0
50°-60°	5930.9	27.6
60°-70°	5969.9	27.8
70°-80°	2230.7	10.4
80°-90°	111.4	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°	21484.0	100.0
0°-180°	21484.0	100.0

Coefficient of Utilization



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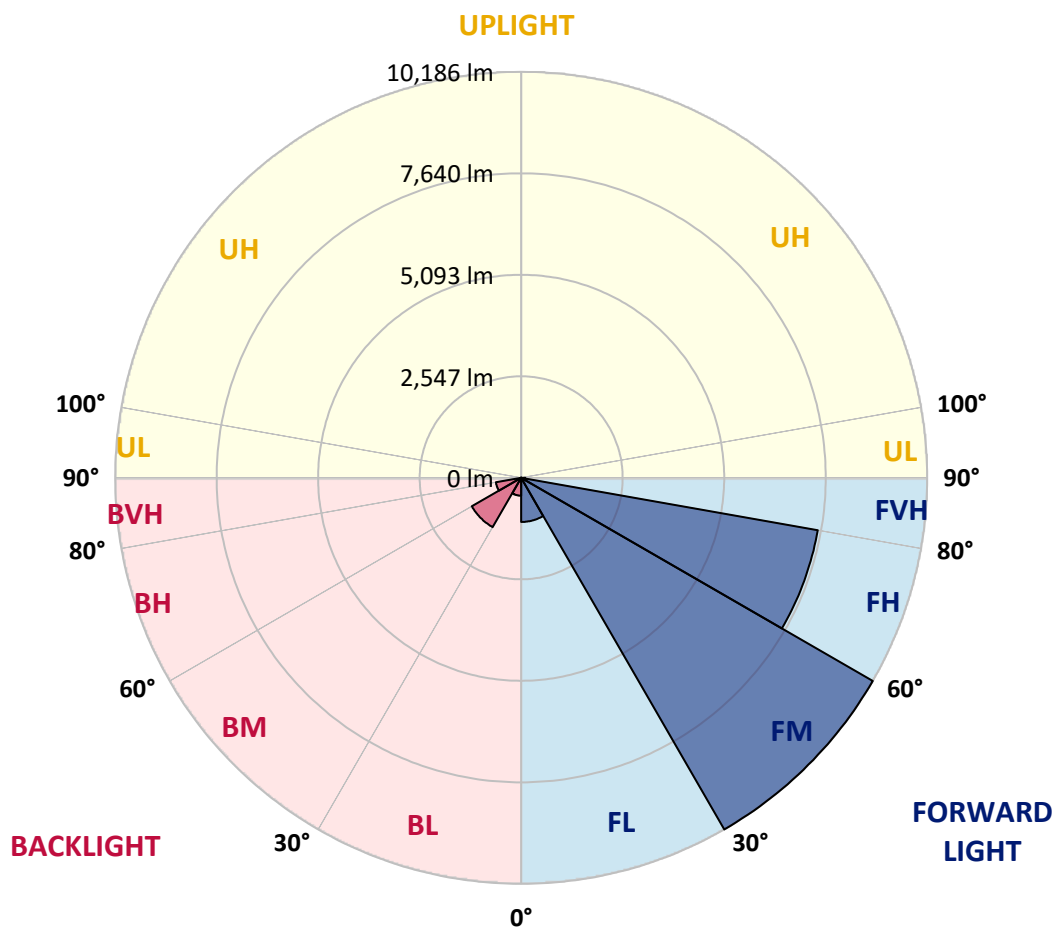
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1107.5	5.2			
FM	(30°-60°)	10186.2	47.4			
FH	(60°-80°)	7556.4	35.2			G4/12000
FVH	(80°-90°)	98.3	0.5			G1/100
BL	(0°-30°)	448.8	2.1	B1/500		
BM	(30°-60°)	1429.6	6.7	B2/2500		
BH	(60°-80°)	644.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	13.1	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°	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3
2.5°	1995.9	1999.8	1992.0	1976.4	1960.9	1941.4	1910.2	1859.5	1851.7	1816.6	1777.6
5°	2132.4	2140.2	2128.5	2124.6	2116.8	2089.5	2046.6	1972.5	1964.7	1894.6	1804.9
7.5°	2179.2	2190.9	2183.1	2183.1	2183.1	2171.4	2151.9	2085.6	2073.9	1984.2	1847.8
10°	2214.2	2222.0	2218.1	2233.7	2245.4	2237.6	2225.9	2187.0	2175.3	2085.6	1906.3
12.5°	2268.8	2272.7	2276.6	2284.4	2303.9	2311.7	2307.8	2272.7	2264.9	2202.5	1980.3
15°	2319.5	2319.5	2323.4	2358.5	2385.8	2401.4	2405.3	2378.0	2370.2	2319.5	2073.9
17.5°	2366.3	2370.2	2381.9	2420.9	2467.6	2498.8	2518.3	2506.6	2494.9	2455.9	2183.1
20°	2436.4	2444.2	2455.9	2510.5	2557.3	2608.0	2647.0	2643.1	2639.2	2611.9	2311.7
22.5°	2557.3	2565.1	2584.6	2635.3	2682.0	2744.4	2810.7	2806.8	2795.1	2775.6	2463.7
25°	2740.5	2740.5	2752.2	2795.1	2853.6	2927.6	2990.0	3001.7	2990.0	2978.3	2654.7
27.5°	2970.5	2974.4	2974.4	3021.2	3075.8	3169.3	3247.3	3259.0	3259.0	3247.3	2912.0
30°	3290.2	3278.5	3270.7	3309.7	3368.1	3504.6	3641.0	3664.4	3652.7	3672.2	3274.6
32.5°	3839.8	3820.3	3754.1	3761.9	3797.0	3984.1	4214.1	4295.9	4292.0	4327.1	3859.3
35°	4600.0	4561.0	4463.6	4381.7	4377.8	4580.5	4931.4	5239.3	5235.4	5356.3	4748.1
37.5°	5457.6	5508.3	5325.1	5184.8	5141.9	5301.7	5753.9	6420.5	6455.6	6666.1	5913.7
40°	6603.7	6634.9	6401.0	6202.2	5999.5	6058.0	6654.4	7691.4	7753.7	7987.6	7079.3
42.5°	7601.7	7632.9	7496.5	7254.8	6997.5	6888.3	7562.7	8845.3	8895.9	9219.5	8280.0
45°	8280.0	8303.4	8350.2	8373.6	8081.2	7855.1	8673.7	10030.4	10092.7	10467.0	9453.4
47.5°	8810.2	8829.7	8923.2	9157.1	9098.7	8919.3	9804.3	11262.2	11277.8	11694.9	10595.6
50°	9055.8	9102.6	9332.6	9691.2	9948.5	9999.2	11032.2	12427.8	12470.7	12868.3	11675.4
52.5°	8782.9	8798.5	9379.3	10053.7	10572.2	11086.8	12264.1	13507.6	13632.4	13928.7	12646.1
55°	7862.9	7975.9	8857.0	10042.0	11063.4	12119.8	13581.7	14673.2	14786.3	14973.4	13499.9
57.5°	6794.8	6919.5	7991.5	9539.2	11273.9	13074.9	14801.9	15912.9	15990.9	16041.5	14283.4
60°	5870.9	5987.8	7091.0	8576.3	11063.4	13749.3	15936.3	17144.8	17211.0	17074.6	14677.1
62.5°	4736.4	4853.4	5964.4	7301.5	10237.0	13885.8	16778.3	18240.2	18267.5	17897.1	14435.4
65°	3570.9	3648.8	4576.6	5722.7	8790.7	13160.7	16969.3	18922.4	18895.1	18134.9	13710.4
66°	3200.5	3266.8	4085.4	5060.0	8038.3	12498.0	16712.1	18977.0	18949.7	17959.5	13234.8
67.5°	2760.0	2779.5	3453.9	4140.0	6724.6	11090.7	15928.5	18727.5	18750.9	17476.1	12365.4
70°	2155.8	2151.9	2541.7	2880.9	4592.2	7890.2	13285.4	17156.5	17269.5	15651.7	10544.9
72.5°	1380.0	1333.2	1559.3	1762.0	2674.2	4580.5	9687.3	13983.2	14174.3	12295.3	7855.1
75°	822.5	775.8	830.3	881.0	1282.5	2202.5	5695.4	9515.8	9699.0	7882.4	4674.1
77.5°	615.9	596.4	600.3	557.5	569.2	826.4	2600.2	5028.8	5161.4	3227.8	1773.7
80°	471.7	421.0	393.7	413.2	374.2	327.5	966.8	1730.8	1812.7	764.1	370.3
82.5°	315.8	272.9	253.4	276.8	237.8	183.2	233.9	335.3	327.5	206.6	144.2
85°	163.7	140.3	140.3	140.3	120.8	89.7	101.4	136.4	136.4	109.2	85.8
87.5°	46.8	42.9	50.7	46.8	35.1	35.1	39.0	46.8	46.8	42.9	39.0
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°	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3
2.5°	1746.4	1730.8	1688.0	1656.8	1625.6	1598.3	1567.1	1559.3	1543.7	1547.6	1539.8
5°	1758.1	1715.3	1641.2	1571.0	1516.4	1469.7	1411.2	1387.8	1356.6	1344.9	1337.1
7.5°	1773.7	1711.4	1602.2	1504.7	1411.2	1317.6	1224.1	1169.5	1134.4	1118.8	1107.1
10°	1808.8	1727.0	1582.7	1430.7	1270.8	1138.3	1044.7	1005.8	982.4	978.5	974.6
12.5°	1855.6	1750.3	1563.2	1337.1	1126.6	1001.9	943.4	931.7	927.8	927.8	923.9
15°	1925.8	1789.3	1532.0	1228.0	1013.6	927.8	900.5	881.0	873.2	873.2	873.2
17.5°	1995.9	1836.1	1485.3	1114.9	935.6	881.0	853.7	842.0	834.2	838.1	834.2
20°	2085.6	1890.7	1422.9	1017.5	884.9	842.0	814.7	803.1	799.2	799.2	799.2
22.5°	2187.0	1953.1	1344.9	943.4	842.0	803.1	775.8	764.1	756.3	760.2	760.2
25°	2323.4	2031.0	1263.1	869.3	799.2	764.1	732.9	717.3	717.3	721.2	725.1
27.5°	2498.8	2124.6	1181.2	822.5	760.2	725.1	690.0	674.4	678.3	686.1	686.1
30°	2756.1	2253.2	1099.3	771.9	717.3	678.3	647.1	631.5	639.3	654.9	654.9
32.5°	3122.5	2463.7	1029.2	713.4	654.9	612.0	580.8	569.2	588.6	619.8	619.8
35°	3777.5	2849.7	986.3	654.9	588.6	538.0	499.0	487.3	514.6	553.6	553.6
37.5°	4654.6	3469.5	1001.9	604.2	534.1	475.6	432.7	417.1	436.6	471.7	483.4
40°	5633.1	4218.0	1138.3	561.4	483.4	424.9	382.0	366.4	378.1	393.7	397.6
42.5°	6611.5	5013.2	1395.6	530.2	444.4	382.0	343.1	331.4	339.2	343.1	346.9
45°	7586.1	5800.7	1719.2	510.7	409.3	346.9	308.0	308.0	311.9	311.9	311.9
47.5°	8510.0	6568.7	2058.3	506.8	378.1	311.9	280.7	284.6	284.6	288.5	288.5
50°	9383.2	7254.8	2401.4	518.5	350.8	280.7	257.3	257.3	257.3	261.2	257.3
52.5°	10112.2	7855.1	2760.0	538.0	323.6	257.3	233.9	233.9	233.9	237.8	233.9
55°	10802.2	8400.9	3126.4	565.3	300.2	237.8	214.4	206.6	206.6	210.5	206.6
57.5°	11363.6	8763.4	3473.4	569.2	280.7	218.3	198.8	187.1	187.1	187.1	187.1
60°	11387.0	8552.9	3574.8	499.0	257.3	198.8	179.3	163.7	167.6	167.6	167.6
62.5°	10642.4	7445.8	2873.1	374.2	230.0	179.3	163.7	148.1	148.1	148.1	148.1
65°	9180.5	5792.9	1684.1	296.3	198.8	159.8	144.2	132.5	132.5	132.5	128.6
66°	8494.4	5079.5	1290.3	269.0	187.1	155.9	140.3	128.6	124.7	120.8	120.8
67.5°	7375.6	4015.3	807.0	237.8	171.5	144.2	128.6	116.9	113.1	109.2	109.2
70°	5555.1	2549.5	393.7	183.2	148.1	124.7	113.1	101.4	97.5	93.6	89.7
72.5°	3898.3	1493.1	206.6	140.3	120.8	109.2	97.5	85.8	81.9	78.0	78.0
75°	2202.5	721.2	136.4	101.4	97.5	89.7	81.9	70.2	66.3	66.3	66.3
77.5°	834.2	249.5	93.6	74.1	78.0	70.2	58.5	58.5	54.6	58.5	54.6
80°	218.3	109.2	58.5	54.6	58.5	50.7	42.9	46.8	46.8	46.8	46.8
82.5°	116.9	62.4	35.1	39.0	35.1	35.1	27.3	31.2	35.1	31.2	35.1
85°	81.9	31.2	19.5	19.5	15.6	15.6	11.7	15.6	19.5	15.6	15.6
87.5°	42.9	11.7	11.7	11.7	11.7	7.8	3.9	0.0	3.9	3.9	3.9
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)