

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: P841903

Luminaire Tested: **ARCH4-240-740-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26235 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 240.2
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



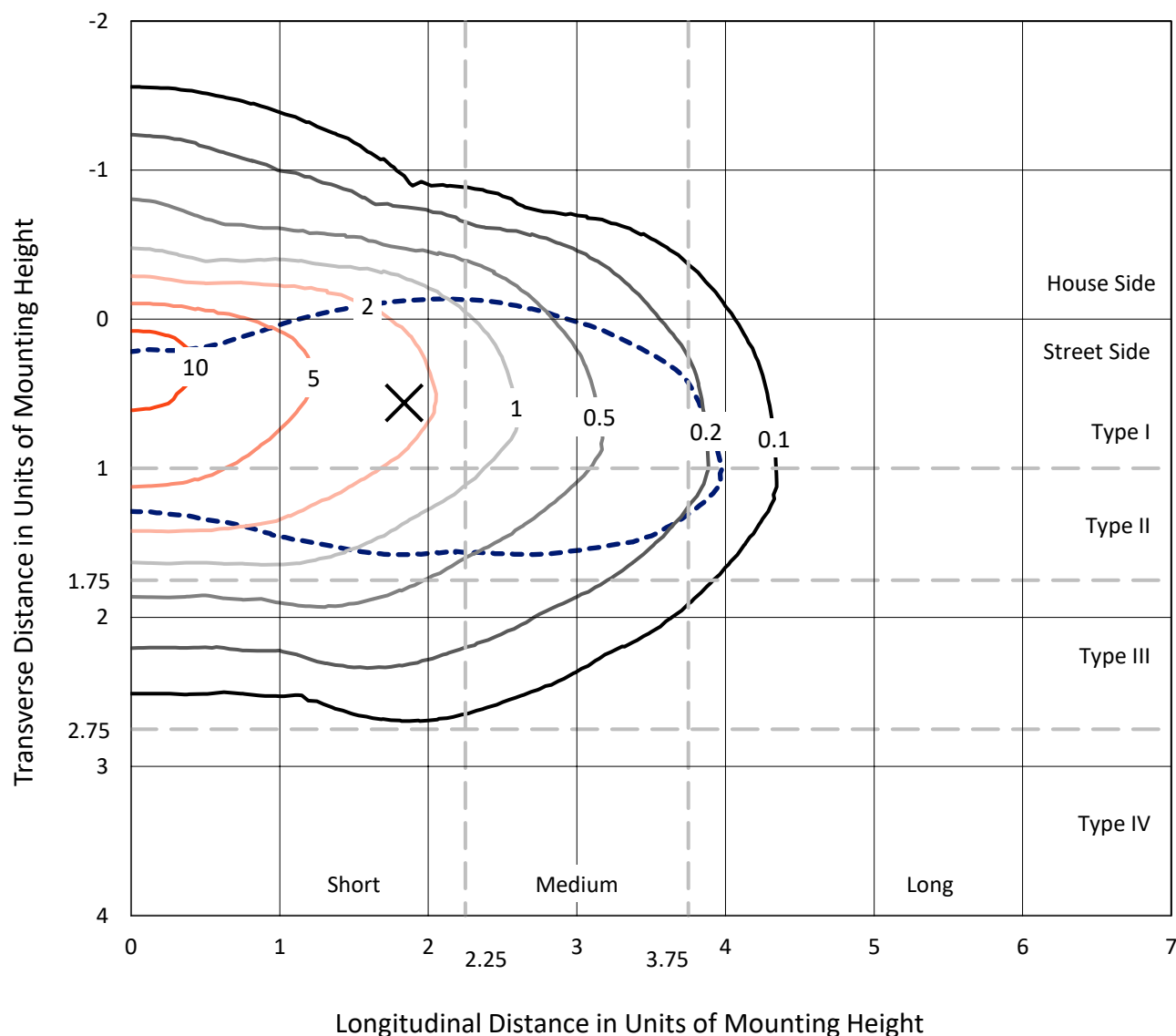
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

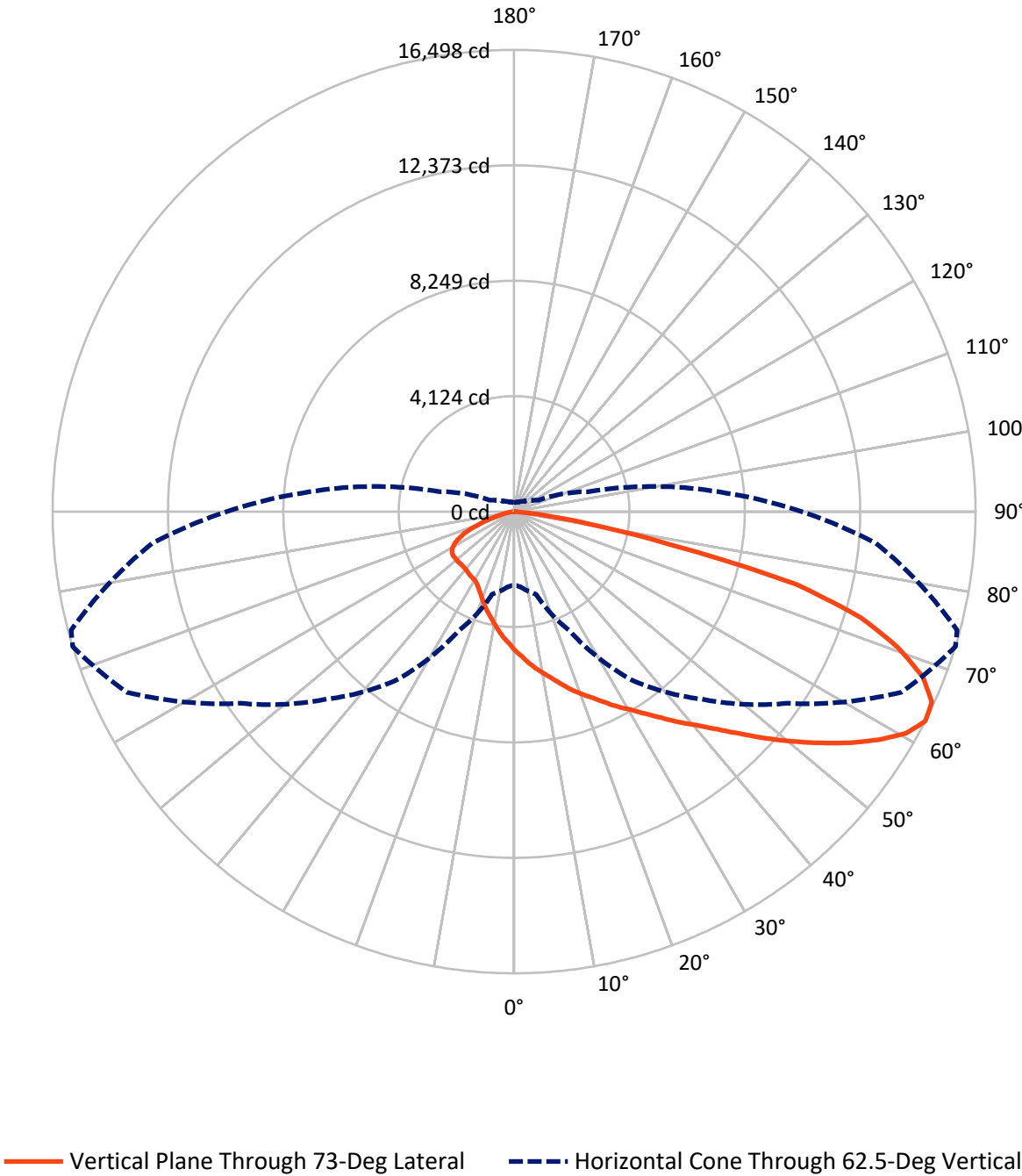


Based on 25 foot mounting height. Maximum calculated value = 12.5 fc

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	4066.8	0.0	4066.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	22168.2	0.0	22168.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	26235.0	0.0	26235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.9	1.8
10°-20°	1448.1	5.5
20°-30°	2410.4	9.2
30°-40°	3637.0	13.9
40°-50°	5083.6	19.4
50°-60°	5615.2	21.4
60°-70°	4891.5	18.6
70°-80°	2470.9	9.4
80°-90°	198.3	0.8
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°	26235.0	100.0
0°-180°	26235.0	100.0

Coefficient of Utilization



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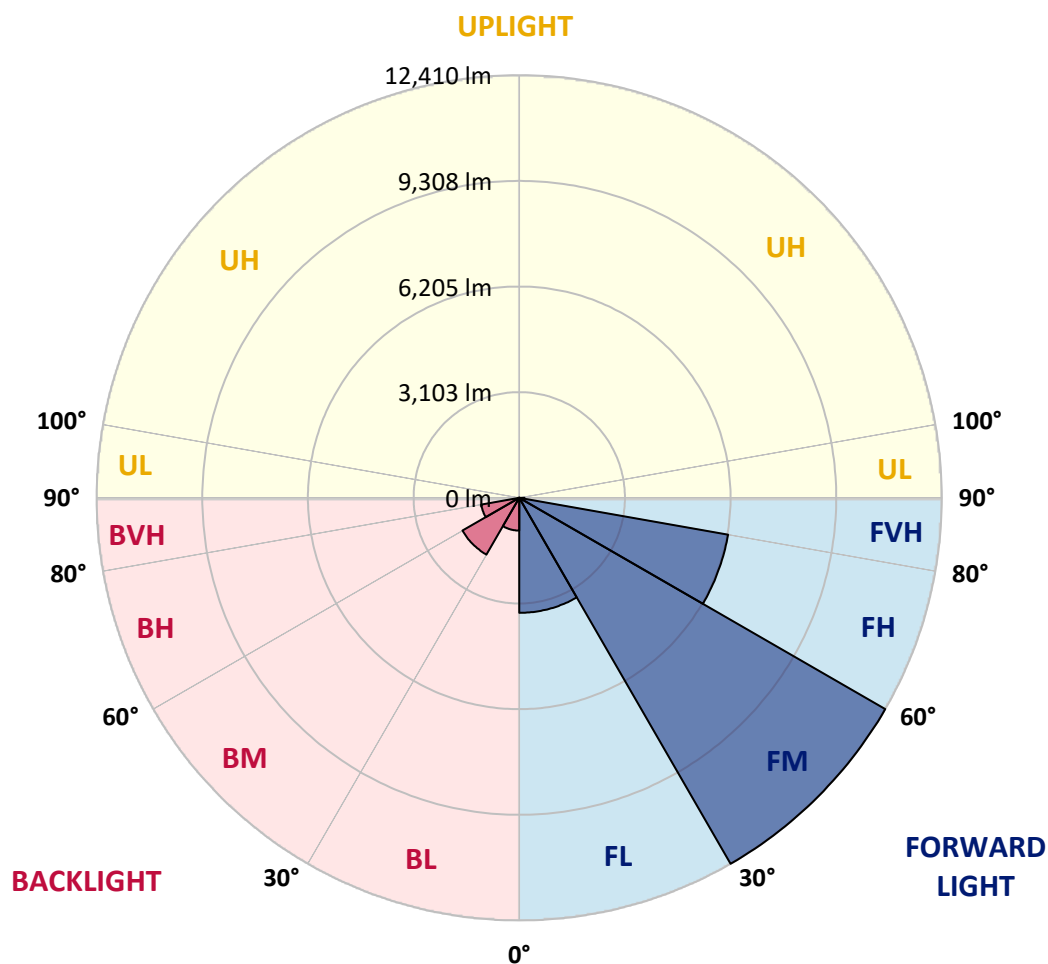
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3377.2	12.9			
FM	(30°-60°)	12410.1	47.3			
FH	(60°-80°)	6227.3	23.7			G3/7500
FVH	(80°-90°)	153.5	0.6			G2/225
BL	(0°-30°)	961.2	3.7	B2/1000		
BM	(30°-60°)	1925.6	7.3	B2/2500		
BH	(60°-80°)	1135.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	44.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7
2.5°	5653.6	5716.5	5682.2	5705.1	5590.8	5516.4	5430.7	5264.9	5173.4	5162.0	5053.4
5°	6482.5	6551.1	6494.0	6476.8	6276.7	6105.2	5910.9	5619.3	5425.0	5390.7	5150.6
7.5°	7311.4	7374.3	7305.7	7254.3	6985.6	6682.6	6396.8	5968.0	5665.1	5607.9	5230.6
10°	7894.5	7951.7	7900.2	7848.8	7568.7	7260.0	6854.1	6293.9	5882.3	5790.8	5282.1
12.5°	8334.7	8369.0	8346.1	8300.4	8037.4	7705.9	7317.1	6659.7	6128.1	6013.8	5362.1
15°	8694.8	8752.0	8723.4	8689.1	8437.6	8106.0	7734.4	7042.7	6413.9	6271.0	5482.1
17.5°	8934.9	8974.9	8980.6	8980.6	8757.7	8431.9	8071.7	7391.5	6699.8	6516.8	5596.5
20°	9043.5	9089.3	9117.8	9163.6	8980.6	8700.5	8334.7	7688.7	6968.4	6762.6	5705.1
22.5°	9095.0	9135.0	9209.3	9312.2	9163.6	8929.2	8591.9	7963.1	7237.1	7019.9	5830.8
25°	9135.0	9186.4	9295.1	9489.4	9386.5	9186.4	8894.9	8277.5	7557.2	7334.3	6013.8
27.5°	9243.6	9306.5	9409.4	9643.8	9518.0	9420.8	9215.0	8614.8	7894.5	7665.8	6236.7
30°	9620.9	9672.3	9666.6	9815.3	9660.9	9632.3	9489.4	8940.6	8220.4	7991.7	6499.7
32.5°	10306.9	10358.3	10232.6	10175.4	9838.1	9843.8	9786.7	9289.3	8609.1	8374.7	6802.7
35°	11044.3	11101.5	10935.7	10838.5	10272.6	10106.8	10135.4	9723.8	9043.5	8809.2	7179.9
37.5°	11701.7	11770.3	11627.4	11484.5	10912.8	10529.8	10524.1	10209.7	9540.9	9300.8	7597.3
40°	12061.8	12141.9	12227.6	12147.6	11547.4	11124.3	10941.4	10707.0	10032.5	9786.7	8048.9
42.5°	12233.3	12456.3	12610.6	12559.2	12067.6	11638.8	11421.6	11227.2	10632.7	10392.6	8586.2
45°	11753.2	11758.9	12084.7	12364.8	12273.4	11987.5	11947.5	11810.3	11318.7	11090.0	9192.2
47.5°	11152.9	11107.2	11335.9	11833.2	12090.4	12164.7	12399.1	12456.3	12101.9	11873.2	9809.5
50°	9712.4	9740.9	10484.1	11198.7	11701.7	12181.9	12719.2	13119.4	12907.9	12690.7	10461.2
52.5°	7900.2	7968.8	8820.6	10392.6	11187.2	12010.4	12907.9	13782.5	13731.1	13525.3	11112.9
55°	6333.9	6442.5	7345.7	9049.2	10529.8	11627.4	12987.9	14388.5	14582.8	14394.2	11753.2
57.5°	4841.9	4956.2	5716.5	7465.8	9689.5	11004.3	12930.8	14920.1	15377.4	15257.4	12342.0
60°	3647.1	3761.5	4247.4	6053.8	8637.7	10306.9	12644.9	15268.8	16092.0	15966.2	12770.7
62.5°	2612.4	2703.9	3064.1	4710.4	7357.2	9478.0	11941.8	15274.5	16497.9	16395.0	12976.5
65°	1880.7	1880.7	2172.3	3361.3	6156.7	8483.3	10878.5	14571.4	16412.1	16383.5	12833.6
67.5°	1354.8	1366.2	1600.6	2349.5	4910.5	7277.1	9500.9	13319.5	15749.0	15891.9	12319.1
70°	960.4	989.0	1097.6	1640.6	3710.0	5745.1	8026.0	11678.8	14554.3	14805.8	11324.4
72.5°	743.1	760.3	834.6	1143.3	2709.6	4270.2	6396.8	9849.6	12959.3	13245.2	9969.6
75°	571.7	588.8	646.0	840.3	1943.6	2995.5	4544.6	7643.0	10449.8	10958.6	8008.8
77.5°	417.3	440.2	480.2	611.7	1131.9	1903.6	2755.4	4298.8	5768.0	6008.1	4195.9
80°	194.4	222.9	280.1	394.4	611.7	897.5	977.5	1657.8	2772.5	2898.3	2275.2
82.5°	108.6	137.2	160.1	240.1	308.7	320.1	331.6	417.3	1046.1	1154.7	954.7
85°	51.4	68.6	74.3	102.9	102.9	91.5	108.6	80.0	171.5	205.8	200.1
87.5°	0.0	5.7	11.4	28.6	22.9	17.1	17.1	17.1	17.1	22.9	17.1
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°	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7	4967.7
2.5°	5002.0	4927.6	4756.1	4607.5	4510.3	4424.6	4310.3	4258.8	4167.3	4184.5	4133.0
5°	5030.5	4893.3	4590.4	4310.3	4104.5	3921.5	3721.5	3607.1	3481.4	3469.9	3429.9
7.5°	5047.7	4836.2	4401.7	4007.3	3692.9	3412.8	3144.1	2995.5	2841.1	2806.8	2772.5
10°	5030.5	4750.4	4207.4	3692.9	3275.6	2926.9	2623.9	2435.2	2275.2	2235.2	2200.9
12.5°	5047.7	4704.7	4024.4	3401.3	2904.0	2509.6	2166.6	1972.2	1823.6	1783.6	1760.7
15°	5087.7	4676.1	3870.1	3138.4	2572.4	2132.3	1795.0	1629.2	1509.2	1469.1	1457.7
17.5°	5122.0	4647.5	3704.3	2881.1	2240.9	1800.7	1509.2	1372.0	1269.1	1229.1	1217.6
20°	5167.7	4607.5	3538.5	2635.3	1949.3	1537.7	1280.5	1160.5	1080.4	1051.8	1046.1
22.5°	5207.7	4578.9	3384.2	2389.5	1680.7	1326.2	1109.0	1011.8	954.7	926.1	926.1
25°	5310.6	4590.4	3252.7	2160.8	1480.6	1160.5	977.5	903.2	857.5	840.3	840.3
27.5°	5430.7	4636.1	3149.8	1966.5	1309.1	1034.7	886.1	823.2	800.3	777.4	783.2
30°	5602.2	4727.6	3081.2	1806.4	1183.3	937.5	811.7	766.0	743.1	737.4	737.4
32.5°	5819.4	4876.2	3075.5	1703.5	1091.9	863.2	760.3	720.3	708.8	703.1	703.1
35°	6076.7	5007.7	3041.2	1657.8	1034.7	811.7	720.3	691.7	686.0	686.0	686.0
37.5°	6385.3	5224.9	3018.3	1594.9	1006.1	783.2	691.7	668.8	668.8	668.8	668.8
40°	6705.5	5402.1	2984.0	1537.7	994.7	766.0	674.5	646.0	646.0	646.0	646.0
42.5°	7088.5	5659.4	2972.6	1509.2	977.5	754.6	651.7	617.4	623.1	623.1	628.8
45°	7551.5	5950.9	2966.9	1480.6	971.8	743.1	628.8	588.8	594.5	588.8	588.8
47.5°	8020.3	6288.2	2984.0	1463.4	966.1	731.7	611.7	560.2	560.2	554.5	554.5
50°	8511.9	6596.9	2995.5	1446.3	954.7	708.8	583.1	537.4	525.9	514.5	520.2
52.5°	8974.9	6882.7	3001.2	1417.7	920.4	674.5	560.2	508.8	491.6	474.5	480.2
55°	9438.0	7157.1	3012.6	1383.4	874.6	640.2	531.6	480.2	457.3	434.5	434.5
57.5°	9855.3	7397.2	2984.0	1297.6	823.2	606.0	503.1	445.9	411.6	388.7	388.7
60°	10141.1	7568.7	2898.3	1171.9	754.6	565.9	474.5	411.6	371.6	354.4	354.4
62.5°	10278.3	7597.3	2743.9	966.1	668.8	525.9	440.2	377.3	343.0	331.6	331.6
65°	10146.8	7471.5	2503.8	726.0	577.4	480.2	405.9	348.7	314.4	285.8	285.8
67.5°	9689.5	7117.1	2172.3	548.8	491.6	434.5	371.6	320.1	280.1	257.2	257.2
70°	8769.1	6379.6	1680.7	440.2	417.3	377.3	337.3	285.8	251.5	222.9	222.9
72.5°	7563.0	5407.8	1183.3	354.4	354.4	320.1	285.8	251.5	217.2	194.4	194.4
75°	5802.3	4001.6	794.6	285.8	291.5	268.7	234.4	205.8	182.9	165.8	165.8
77.5°	3167.0	1977.9	485.9	211.5	217.2	205.8	182.9	165.8	154.3	137.2	137.2
80°	1537.7	868.9	280.1	148.6	154.3	148.6	137.2	120.0	120.0	108.6	108.6
82.5°	646.0	325.8	148.6	102.9	102.9	91.5	85.7	85.7	85.7	80.0	80.0
85°	160.1	62.9	62.9	57.2	57.2	57.2	51.4	51.4	51.4	40.0	45.7
87.5°	22.9	22.9	22.9	22.9	22.9	22.9	17.1	5.7	0.0	0.0	0.0
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)