

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: P841746

Luminaire Tested: **ARCH4-220-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32769 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 221.8
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

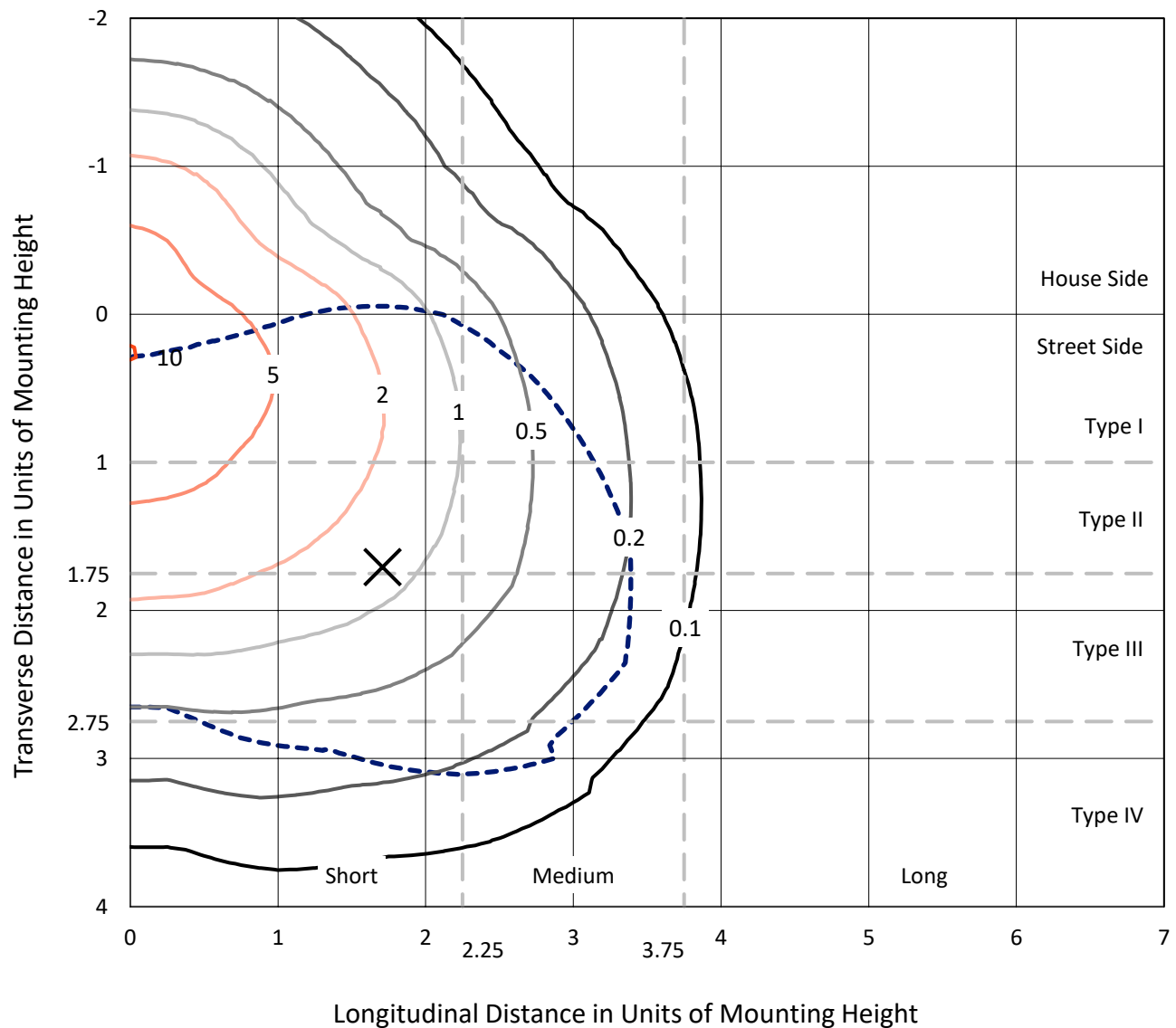


REPORT NUMBER: P841746

CATALOG NUMBER: ARCH4-220-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

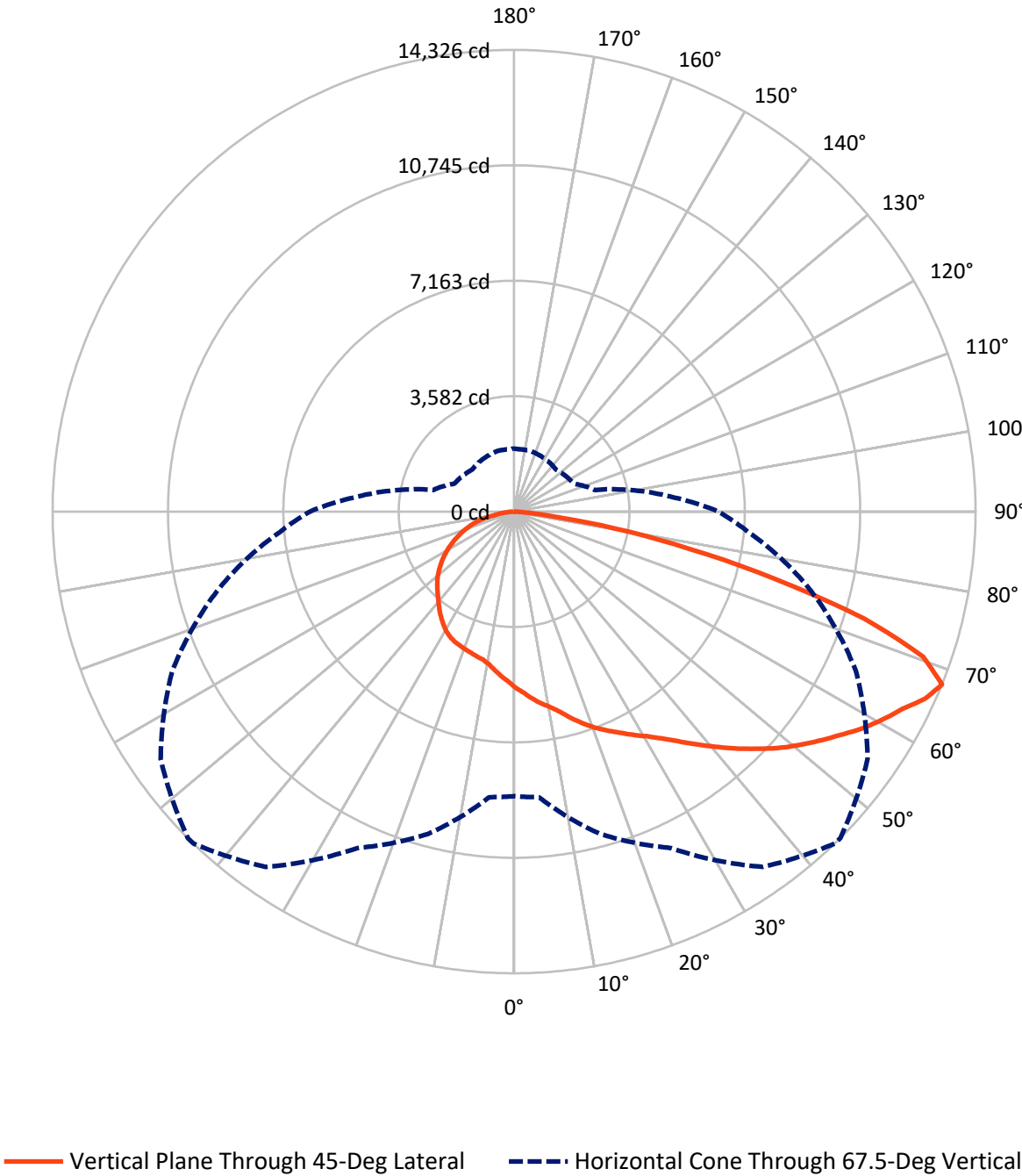
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type IV - Short - N/A

REPORT NUMBER: P841746
CATALOG NUMBER: ARCH4-220-730-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P841746

CATALOG NUMBER: ARCH4-220-730-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8754.3	0.0	8754.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	24014.7	0.0	24014.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	32769.0	0.0	32769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.3	1.6
10°-20°	1616.4	4.9
20°-30°	2790.2	8.5
30°-40°	4114.5	12.6
40°-50°	5574.4	17.0
50°-60°	6813.2	20.8
60°-70°	7026.9	21.4
70°-80°	3848.8	11.7
80°-90°	461.3	1.4
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°	32769.0	100.0
0°-180°	32769.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841746

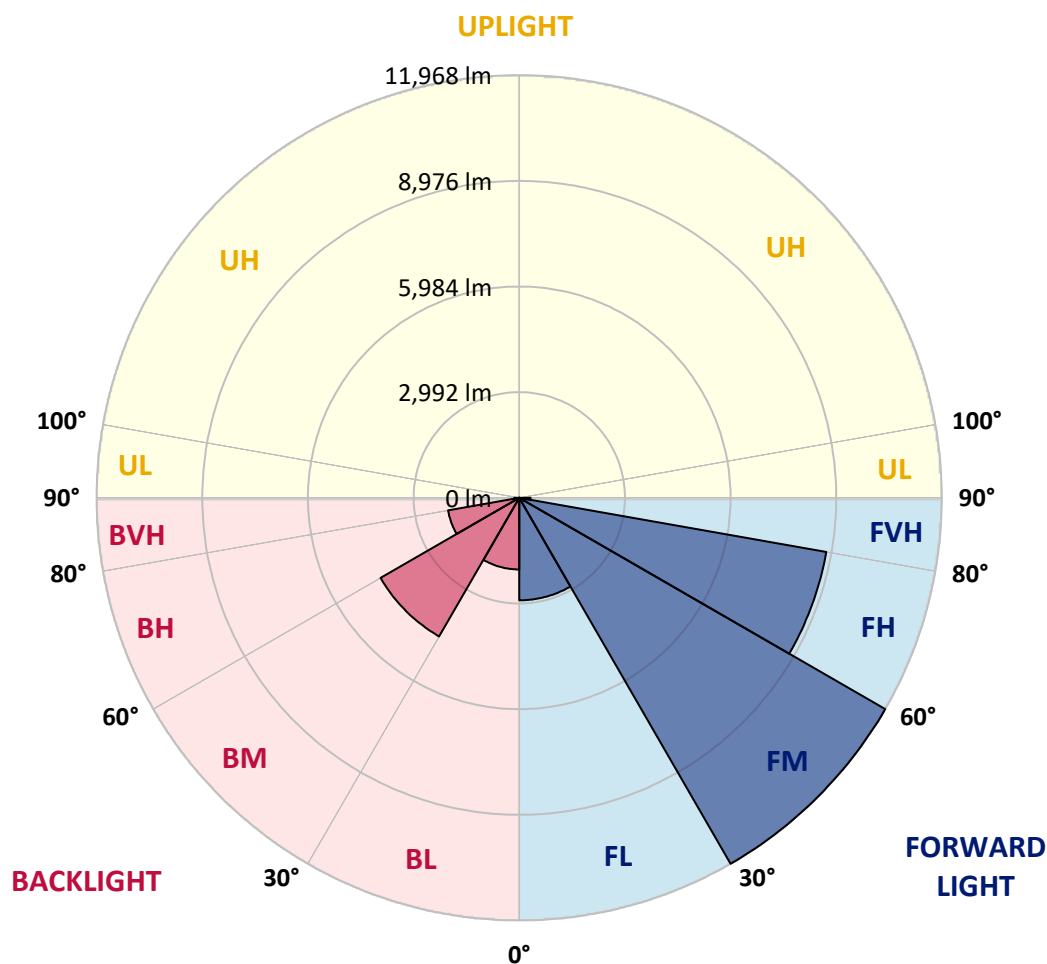
CATALOG NUMBER: ARCH4-220-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2900.9	8.9			
FM	(30°-60°)	11967.6	36.5			
FH	(60°-80°)	8828.4	26.9			G4/12000
FVH	(80°-90°)	317.8	1.0			G3/500
BL	(0°-30°)	2028.9	6.2	B3/2500		
BM	(30°-60°)	4534.6	13.8	B3/5000		
BH	(60°-80°)	2047.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	143.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P841746

CATALOG NUMBER: ARCH4-220-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2
2.5°	5704.6	5699.6	5709.6	5674.7	5629.8	5624.8	5624.8	5594.9	5560.0	5490.2	5435.3
5°	5973.9	5963.9	5968.9	5919.0	5859.2	5829.3	5824.3	5759.5	5679.7	5570.0	5470.2
7.5°	6223.2	6213.2	6208.2	6153.4	6063.6	6013.8	6008.8	5914.0	5819.3	5649.7	5505.1
10°	6457.6	6447.6	6437.6	6362.8	6253.1	6178.3	6168.3	6048.7	5929.0	5719.6	5535.1
12.5°	6756.8	6736.8	6726.8	6637.1	6477.5	6397.7	6382.8	6223.2	6073.6	5819.3	5594.9
15°	7070.9	7056.0	7041.0	6956.2	6776.7	6672.0	6647.1	6447.6	6243.1	5948.9	5684.7
17.5°	7305.3	7290.3	7290.3	7215.5	7051.0	6931.3	6911.3	6672.0	6417.7	6068.6	5754.5
20°	7449.9	7434.9	7449.9	7405.0	7280.3	7180.6	7160.7	6896.4	6592.2	6178.3	5814.3
22.5°	7554.6	7539.6	7564.6	7544.6	7454.9	7395.0	7380.1	7120.8	6771.7	6293.0	5874.1
25°	7739.1	7739.1	7739.1	7704.2	7619.4	7599.5	7599.5	7375.1	7001.1	6442.6	5963.9
27.5°	8108.1	8088.2	8063.2	7963.5	7818.9	7813.9	7843.8	7634.4	7265.4	6637.1	6073.6
30°	8651.6	8641.7	8546.9	8337.5	8093.2	8068.2	8088.2	7913.6	7549.6	6841.5	6198.3
32.5°	9354.7	9319.8	9125.4	8811.2	8462.2	8347.5	8387.4	8202.9	7848.8	7051.0	6317.9
35°	9853.4	9863.4	9723.8	9439.5	9025.6	8721.5	8751.4	8527.0	8172.9	7285.3	6467.5
37.5°	10426.9	10461.8	10252.3	10037.9	9653.9	9135.3	9165.3	8861.1	8497.1	7579.5	6627.1
40°	11219.7	11149.9	10795.9	10541.5	10117.7	9569.2	9594.1	9235.1	8871.1	7858.8	6811.6
42.5°	11882.9	11758.3	11329.4	11005.3	10496.7	10027.9	10052.9	9639.0	9250.0	8168.0	7016.1
45°	12835.4	12491.3	11873.0	11713.4	10885.6	10476.7	10501.7	10067.8	9649.0	8497.1	7235.5
47.5°	13388.9	12840.3	12446.4	12361.6	11314.5	10940.5	10970.4	10521.6	10077.8	8871.1	7464.9
50°	13354.0	12999.9	12885.2	12675.8	11693.4	11374.3	11404.2	10990.3	10511.6	9240.1	7684.3
52.5°	13124.6	13189.4	13129.6	12780.5	12072.4	11793.2	11828.1	11454.1	10955.4	9584.1	7888.7
55°	13478.6	13523.5	13408.8	12950.0	12491.3	12212.0	12251.9	11942.8	11394.2	9888.3	8063.2
57.5°	13902.5	13742.9	13628.2	13249.2	12925.1	12665.8	12710.7	12441.4	11773.2	10132.6	8197.9
60°	13882.5	13548.4	13663.1	13269.2	13219.3	13084.7	13124.6	12850.3	12062.4	10312.2	8252.7
62.5°	12860.3	12680.8	13259.2	13124.6	13458.7	13458.7	13508.5	13099.6	12237.0	10387.0	8222.8
65°	11085.1	11095.1	12112.3	12670.8	13742.9	13972.3	14012.2	13254.2	12137.2	10167.6	7943.6
67.5°	8831.2	8896.0	10357.0	11518.9	13458.7	14321.3	14326.3	13393.8	11708.4	9549.2	7295.3
70°	6462.6	6512.4	8237.8	9649.0	12117.3	13548.4	13468.6	12999.9	10775.9	8472.1	6283.0
72.5°	4368.2	4413.1	6188.3	7410.0	9943.2	11538.9	11364.3	11489.0	9185.2	6961.2	5051.4
75°	2937.1	2991.9	4403.1	5300.7	7315.3	8761.4	8372.4	8701.5	7105.8	5270.8	3685.1
77.5°	1850.0	1884.9	2797.4	3475.6	4996.5	5963.9	5575.0	5579.9	4093.9	2837.3	1979.7
80°	1176.8	1186.8	1695.4	2004.6	2892.2	3585.3	3171.4	2578.0	1845.0	1505.9	1181.8
82.5°	683.2	668.2	1012.3	1131.9	1376.3	1361.3	1127.0	1067.1	807.8	753.0	603.4
85°	274.3	254.3	443.8	413.9	418.9	443.8	329.1	329.1	264.3	204.4	149.6
87.5°	54.9	54.9	59.8	54.9	54.9	59.8	44.9	44.9	39.9	39.9	39.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P841746

CATALOG NUMBER: ARCH4-220-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2	5465.2
2.5°	5425.4	5415.4	5390.4	5325.6	5290.7	5270.8	5240.9	5230.9	5225.9	5230.9	5245.8
5°	5440.3	5405.4	5335.6	5230.9	5161.1	5116.2	5066.3	5046.4	5031.4	5031.4	5046.4
7.5°	5450.3	5395.4	5275.8	5121.2	5021.4	4951.6	4891.8	4866.9	4861.9	4876.8	4881.8
10°	5455.3	5375.5	5205.9	5011.5	4881.8	4792.1	4732.2	4717.3	4732.2	4762.1	4767.1
12.5°	5490.2	5380.5	5166.1	4936.7	4782.1	4692.3	4647.5	4647.5	4687.3	4742.2	4747.2
15°	5550.0	5415.4	5146.1	4876.8	4717.3	4637.5	4622.5	4647.5	4707.3	4792.1	4802.0
17.5°	5594.9	5435.3	5101.2	4797.1	4632.5	4582.6	4607.6	4667.4	4752.2	4866.9	4876.8
20°	5624.8	5435.3	5036.4	4702.3	4547.7	4537.8	4607.6	4702.3	4792.1	4926.7	4941.7
22.5°	5654.7	5425.4	4961.6	4587.6	4453.0	4482.9	4612.5	4732.2	4822.0	4966.6	4991.5
25°	5709.6	5440.3	4886.8	4472.9	4353.2	4438.0	4607.6	4752.2	4846.9	4996.5	5036.4
27.5°	5784.4	5475.2	4832.0	4368.2	4253.5	4368.2	4572.7	4747.2	4846.9	4991.5	5036.4
30°	5864.2	5515.1	4767.1	4253.5	4138.8	4268.5	4497.9	4692.3	4807.0	4941.7	4996.5
32.5°	5948.9	5560.0	4712.3	4128.9	3999.2	4133.8	4388.2	4607.6	4732.2	4856.9	4916.7
35°	6063.6	5639.8	4682.4	4029.1	3874.5	3994.2	4248.5	4497.9	4632.5	4747.2	4817.0
37.5°	6203.3	5739.5	4667.4	3929.4	3739.9	3839.6	4098.9	4363.2	4507.8	4602.6	4667.4
40°	6362.8	5864.2	4662.4	3834.6	3605.3	3680.1	3944.4	4208.6	4348.3	4423.1	4477.9
42.5°	6542.3	6003.8	4652.4	3739.9	3470.6	3530.5	3794.8	4054.1	4173.7	4238.6	4288.4
45°	6731.8	6143.4	4632.5	3625.2	3326.0	3395.8	3640.2	3869.6	3994.2	4049.1	4103.9
47.5°	6921.3	6283.0	4592.6	3495.6	3196.4	3261.2	3475.6	3675.1	3774.8	3824.7	3879.5
50°	7105.8	6407.7	4497.9	3346.0	3061.7	3121.6	3286.1	3420.8	3495.6	3535.5	3590.3
52.5°	7270.4	6492.5	4363.2	3171.4	2927.1	2957.0	3066.7	3181.4	3241.3	3246.2	3296.1
55°	7410.0	6537.4	4168.7	2991.9	2782.5	2787.5	2847.3	2937.1	2962.0	2942.1	2977.0
57.5°	7489.8	6512.4	3954.3	2807.4	2632.9	2612.9	2657.8	2702.7	2707.7	2657.8	2692.7
60°	7509.7	6397.7	3675.1	2622.9	2483.3	2428.4	2443.4	2433.4	2423.5	2403.5	2433.4
62.5°	7410.0	6153.4	3365.9	2443.4	2323.7	2239.0	2234.0	2229.0	2243.9	2248.9	2253.9
65°	7046.0	5694.6	2996.9	2258.9	2154.2	2039.5	2034.5	2094.3	2114.3	2084.4	2094.3
67.5°	6342.9	4991.5	2593.0	2044.5	1939.8	1840.0	1879.9	1914.8	1949.7	1939.8	1949.7
70°	5345.6	4098.9	2224.0	1805.1	1705.4	1650.5	1695.4	1725.3	1730.3	1720.4	1730.3
72.5°	4203.7	3201.4	1879.9	1560.8	1471.0	1446.1	1500.9	1525.9	1570.8	1590.7	1595.7
75°	3036.8	2363.6	1540.8	1296.5	1221.7	1221.7	1271.6	1316.4	1356.3	1331.4	1316.4
77.5°	1695.4	1411.2	1107.0	892.6	907.6	977.4	997.3	1047.2	1087.1	1082.1	1072.1
80°	1027.2	882.6	748.0	578.4	573.5	628.3	758.0	842.7	862.7	817.8	812.8
82.5°	533.6	463.7	398.9	324.1	359.0	418.9	438.8	528.6	583.4	563.5	588.4
85°	134.6	129.7	144.6	149.6	184.5	204.4	224.4	264.3	174.5	84.8	84.8
87.5°	39.9	39.9	49.9	49.9	64.8	79.8	74.8	74.8	39.9	5.0	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)