

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: P841890

Luminaire Tested: **ARCH4-240-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841890
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: ARCH4-240-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34905 lumens
Efficiency: N/A
Efficacy: 145.3 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

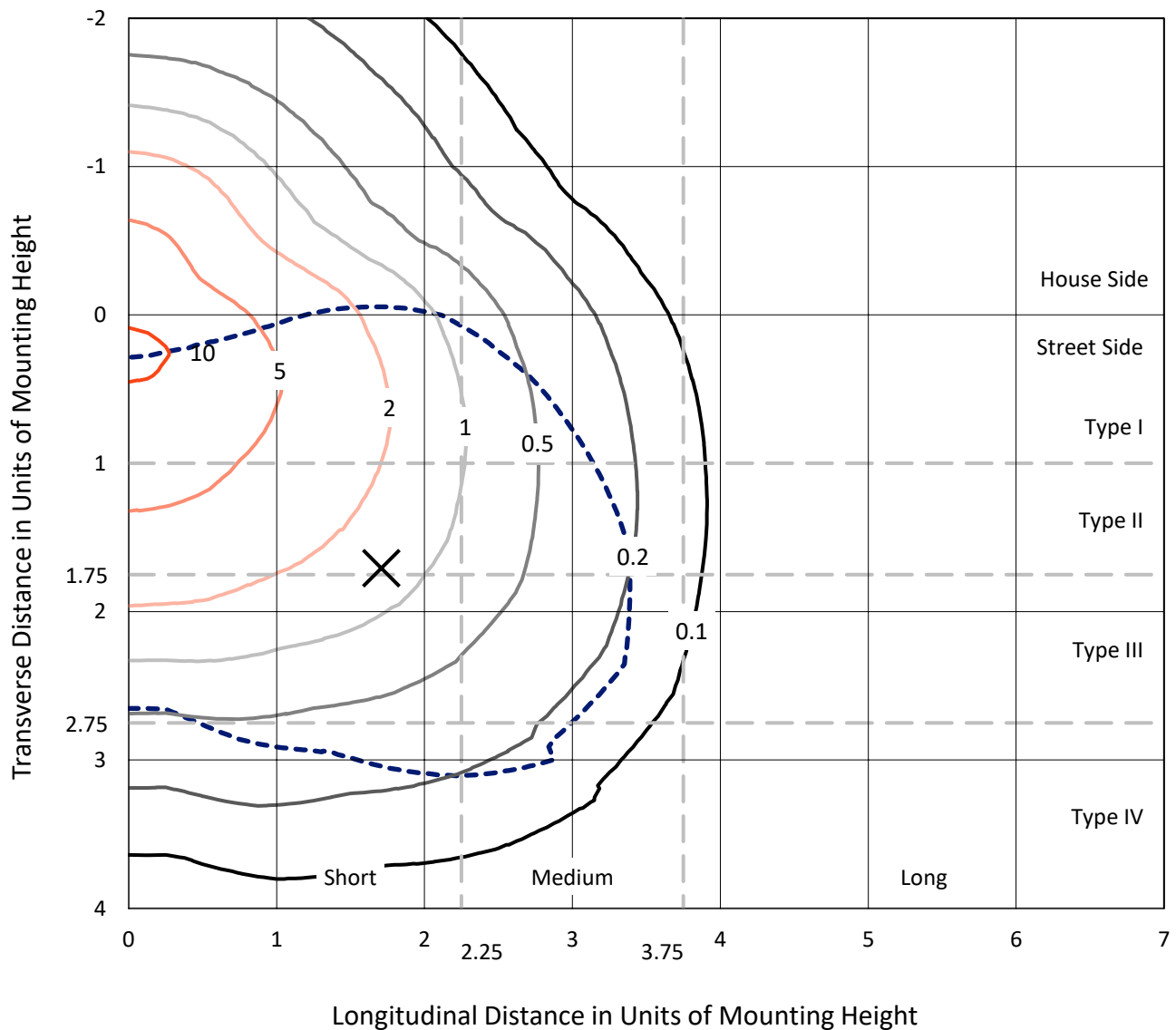
Input Watts (W): 240.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841890
CATALOG NUMBER: ARCH4-240-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

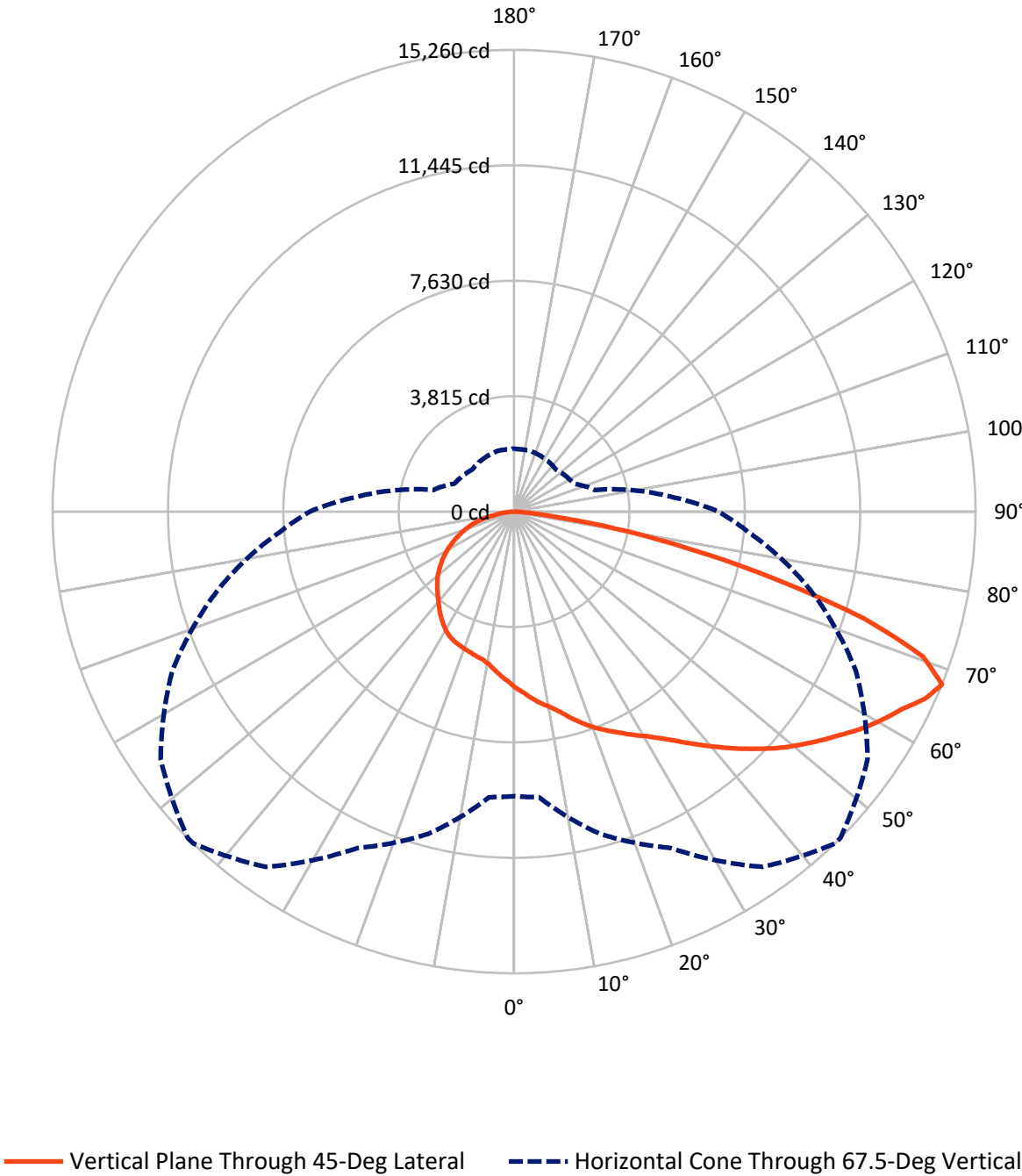
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type IV - Short - N/A

REPORT NUMBER: P841890
CATALOG NUMBER: ARCH4-240-730-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P841890

CATALOG NUMBER: ARCH4-240-730-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9324.9	0.0	9324.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	25580.1	0.0	25580.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	34905.0	0.0	34905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.4	1.6
10°-20°	1721.8	4.9
20°-30°	2972.0	8.5
30°-40°	4382.7	12.6
40°-50°	5937.7	17.0
50°-60°	7257.3	20.8
60°-70°	7484.9	21.4
70°-80°	4099.7	11.7
80°-90°	491.4	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°	34905.0	100.0
0°-180°	34905.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841890

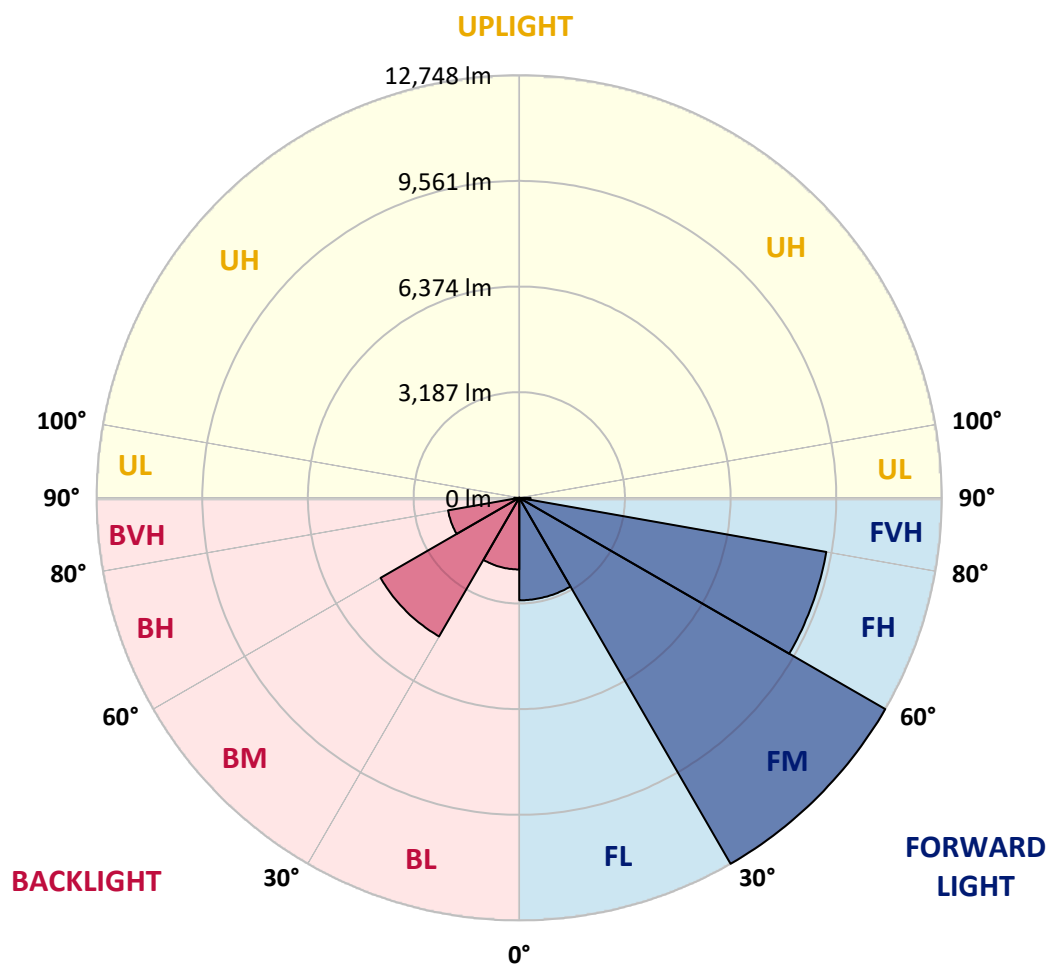
CATALOG NUMBER: ARCH4-240-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3090.0	8.9			
FM	(30°-60°)	12747.6	36.5			
FH	(60°-80°)	9403.9	26.9			G4/12000
FVH	(80°-90°)	338.5	1.0			G3/500
BL	(0°-30°)	2161.2	6.2	B3/2500		
BM	(30°-60°)	4830.1	13.8	B3/5000		
BH	(60°-80°)	2180.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	152.9	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: P841890

CATALOG NUMBER: ARCH4-240-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5
2.5°	6076.4	6071.1	6081.8	6044.6	5996.8	5991.5	5991.5	5959.6	5922.4	5848.0	5789.6
5°	6363.3	6352.6	6358.0	6304.8	6241.1	6209.2	6203.9	6134.9	6049.9	5933.0	5826.8
7.5°	6628.9	6618.2	6612.9	6554.5	6458.9	6405.8	6400.5	6299.5	6198.6	6018.0	5864.0
10°	6878.5	6867.9	6857.3	6777.6	6660.7	6581.0	6570.4	6442.9	6315.5	6092.4	5895.9
12.5°	7197.2	7175.9	7165.3	7069.7	6899.7	6814.8	6798.8	6628.9	6469.5	6198.6	5959.6
15°	7531.8	7515.9	7500.0	7409.7	7218.4	7106.9	7080.3	6867.9	6650.1	6336.7	6055.2
17.5°	7781.5	7765.5	7765.5	7685.9	7510.6	7383.1	7361.9	7106.9	6836.0	6464.2	6129.6
20°	7935.5	7919.6	7935.5	7887.7	7754.9	7648.7	7627.4	7345.9	7021.9	6581.0	6193.3
22.5°	8047.0	8031.1	8057.7	8036.4	7940.8	7877.1	7861.1	7584.9	7213.1	6703.2	6257.0
25°	8243.6	8243.6	8243.6	8206.4	8116.1	8094.8	8094.8	7855.8	7457.5	6862.6	6352.6
27.5°	8636.6	8615.4	8588.8	8482.6	8328.6	8323.2	8355.1	8132.0	7739.0	7069.7	6469.5
30°	9215.6	9205.0	9104.0	8881.0	8620.7	8594.1	8615.4	8429.5	8041.7	7287.5	6602.3
32.5°	9964.5	9927.3	9720.2	9385.6	9013.8	8891.6	8934.1	8737.5	8360.4	7510.6	6729.8
35°	10495.7	10506.3	10357.6	10054.8	9614.0	9290.0	9321.8	9082.8	8705.7	7760.2	6889.1
37.5°	11106.5	11143.7	10920.6	10692.2	10283.2	9730.8	9762.7	9438.7	9050.9	8073.6	7059.1
40°	11951.1	11876.7	11499.6	11228.7	10777.2	10192.9	10219.5	9837.0	9449.3	8371.1	7255.6
42.5°	12657.5	12524.7	12067.9	11722.7	11180.9	10681.6	10708.1	10267.3	9853.0	8700.4	7473.4
45°	13672.0	13305.5	12646.9	12476.9	11595.2	11159.6	11186.2	10724.1	10277.9	9050.9	7707.1
47.5°	14261.6	13677.3	13257.7	13167.4	12052.0	11653.6	11685.5	11207.4	10734.7	9449.3	7951.4
50°	14224.4	13847.3	13725.1	13502.0	12455.7	12115.7	12147.6	11706.7	11196.8	9842.4	8185.1
52.5°	13980.1	14049.1	13985.4	13613.6	12859.3	12561.9	12599.1	12200.7	11669.5	10208.9	8402.9
55°	14357.2	14405.0	14282.8	13794.2	13305.5	13008.1	13050.6	12721.2	12137.0	10532.9	8588.8
57.5°	14808.7	14638.7	14516.5	14112.9	13767.6	13491.4	13539.2	13252.4	12540.6	10793.1	8732.2
60°	14787.4	14431.6	14553.7	14134.1	14081.0	13937.6	13980.1	13687.9	12848.7	10984.3	8790.7
62.5°	13698.6	13507.3	14123.5	13980.1	14336.0	14336.0	14389.1	13953.5	13034.6	11064.0	8758.8
65°	11807.6	11818.3	12901.8	13496.7	14638.7	14883.0	14925.5	14118.2	12928.4	10830.3	8461.3
67.5°	9406.8	9475.9	11032.2	12269.8	14336.0	15254.9	15260.2	14266.9	12471.6	10171.7	7770.8
70°	6883.8	6936.9	8774.7	10277.9	12907.1	14431.6	14346.6	13847.3	11478.3	9024.4	6692.6
72.5°	4652.9	4700.7	6591.7	7893.0	10591.3	12291.0	12105.1	12237.9	9783.9	7415.0	5380.6
75°	3128.5	3186.9	4690.1	5646.2	7792.1	9332.4	8918.1	9268.7	7569.0	5614.3	3925.3
77.5°	1970.6	2007.8	2979.8	3702.2	5322.2	6352.6	5938.3	5943.7	4360.8	3022.3	2108.7
80°	1253.5	1264.2	1805.9	2135.3	3080.7	3819.0	3378.2	2746.1	1965.3	1604.1	1258.8
82.5°	727.7	711.8	1078.3	1205.7	1466.0	1450.1	1200.4	1136.7	860.5	802.0	642.7
85°	292.1	270.9	472.7	440.9	446.2	472.7	350.6	350.6	281.5	217.8	159.3
87.5°	58.4	58.4	63.7	58.4	58.4	63.7	47.8	47.8	42.5	42.5	42.5
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: P841890

CATALOG NUMBER: ARCH4-240-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5	5821.5
2.5°	5779.0	5768.4	5741.8	5672.8	5635.6	5614.3	5582.5	5571.8	5566.5	5571.8	5587.8
5°	5794.9	5757.8	5683.4	5571.8	5497.5	5449.7	5396.6	5375.3	5359.4	5359.4	5375.3
7.5°	5805.6	5747.1	5619.7	5455.0	5348.8	5274.4	5210.7	5184.1	5178.8	5194.7	5200.0
10°	5810.9	5725.9	5545.3	5338.1	5200.0	5104.4	5040.7	5024.8	5040.7	5072.6	5077.9
12.5°	5848.0	5731.2	5502.8	5258.5	5093.8	4998.2	4950.4	4950.4	4992.9	5051.3	5056.6
15°	5911.8	5768.4	5481.6	5194.7	5024.8	4939.8	4923.8	4950.4	5014.1	5104.4	5115.1
17.5°	5959.6	5789.6	5433.7	5109.7	4934.5	4881.3	4907.9	4971.6	5061.9	5184.1	5194.7
20°	5991.5	5789.6	5364.7	5008.8	4844.2	4833.5	4907.9	5008.8	5104.4	5247.8	5263.8
22.5°	6023.3	5779.0	5285.0	4886.7	4743.2	4775.1	4913.2	5040.7	5136.3	5290.3	5316.9
25°	6081.8	5794.9	5205.3	4764.5	4637.0	4727.3	4907.9	5061.9	5162.9	5322.2	5364.7
27.5°	6161.4	5832.1	5146.9	4652.9	4530.8	4652.9	4870.7	5056.6	5162.9	5316.9	5364.7
30°	6246.4	5874.6	5077.9	4530.8	4408.6	4546.7	4791.0	4998.2	5120.4	5263.8	5322.2
32.5°	6336.7	5922.4	5019.4	4398.0	4259.9	4403.3	4674.2	4907.9	5040.7	5173.5	5237.2
35°	6458.9	6007.4	4987.6	4291.8	4127.1	4254.6	4525.5	4791.0	4934.5	5056.6	5131.0
37.5°	6607.6	6113.6	4971.6	4185.5	3983.7	4089.9	4366.1	4647.6	4801.7	4902.6	4971.6
40°	6777.6	6246.4	4966.3	4084.6	3840.3	3919.9	4201.5	4483.0	4631.7	4711.4	4769.8
42.5°	6968.8	6395.1	4955.7	3983.7	3696.9	3760.6	4042.1	4318.3	4445.8	4514.8	4568.0
45°	7170.6	6543.9	4934.5	3861.5	3542.8	3617.2	3877.5	4121.8	4254.6	4313.0	4371.4
47.5°	7372.5	6692.6	4892.0	3723.4	3404.7	3473.8	3702.2	3914.6	4020.9	4074.0	4132.4
50°	7569.0	6825.4	4791.0	3564.1	3261.3	3325.0	3500.3	3643.7	3723.4	3765.9	3824.3
52.5°	7744.3	6915.7	4647.6	3378.2	3117.9	3149.8	3266.6	3388.8	3452.5	3457.8	3511.0
55°	7893.0	6963.5	4440.5	3186.9	2963.9	2969.2	3032.9	3128.5	3155.1	3133.8	3171.0
57.5°	7978.0	6936.9	4212.1	2990.4	2804.5	2783.3	2831.1	2878.9	2884.2	2831.1	2868.3
60°	7999.2	6814.8	3914.6	2793.9	2645.2	2586.7	2602.7	2592.1	2581.4	2560.2	2592.1
62.5°	7893.0	6554.5	3585.3	2602.7	2475.2	2384.9	2379.6	2374.3	2390.2	2395.5	2400.8
65°	7505.3	6065.8	3192.3	2406.1	2294.6	2172.4	2167.1	2230.9	2252.1	2220.2	2230.9
67.5°	6756.3	5316.9	2762.0	2177.7	2066.2	1960.0	2002.5	2039.6	2076.8	2066.2	2076.8
70°	5694.0	4366.1	2369.0	1922.8	1816.6	1758.1	1805.9	1837.8	1843.1	1832.5	1843.1
72.5°	4477.7	3410.0	2002.5	1662.5	1566.9	1540.4	1598.8	1625.3	1673.1	1694.4	1699.7
75°	3234.8	2517.7	1641.3	1381.0	1301.3	1301.3	1354.5	1402.3	1444.7	1418.2	1402.3
77.5°	1805.9	1503.2	1179.2	950.8	966.7	1041.1	1062.3	1115.4	1157.9	1152.6	1142.0
80°	1094.2	940.1	796.7	616.1	610.8	669.3	807.4	897.7	918.9	871.1	865.8
82.5°	568.3	494.0	424.9	345.3	382.4	446.2	467.4	563.0	621.5	600.2	626.8
85°	143.4	138.1	154.0	159.3	196.5	217.8	239.0	281.5	185.9	90.3	90.3
87.5°	42.5	42.5	53.1	53.1	69.1	85.0	79.7	79.7	42.5	5.3	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)