

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: P841915

Luminaire Tested: **ARCH4-240-750-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37595 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

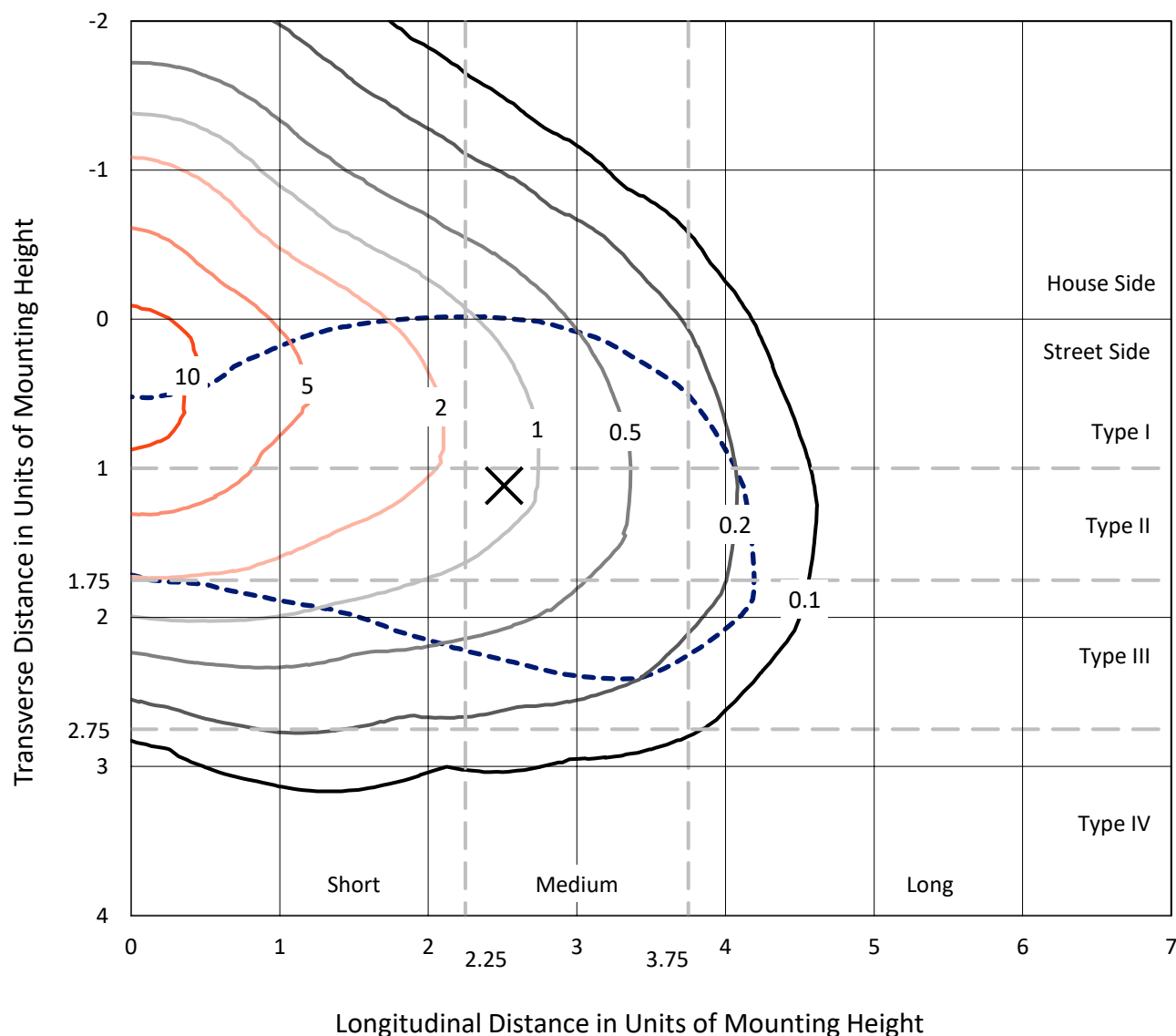
Input Watts (W): 240.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841915
 CATALOG NUMBER: ARCH4-240-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

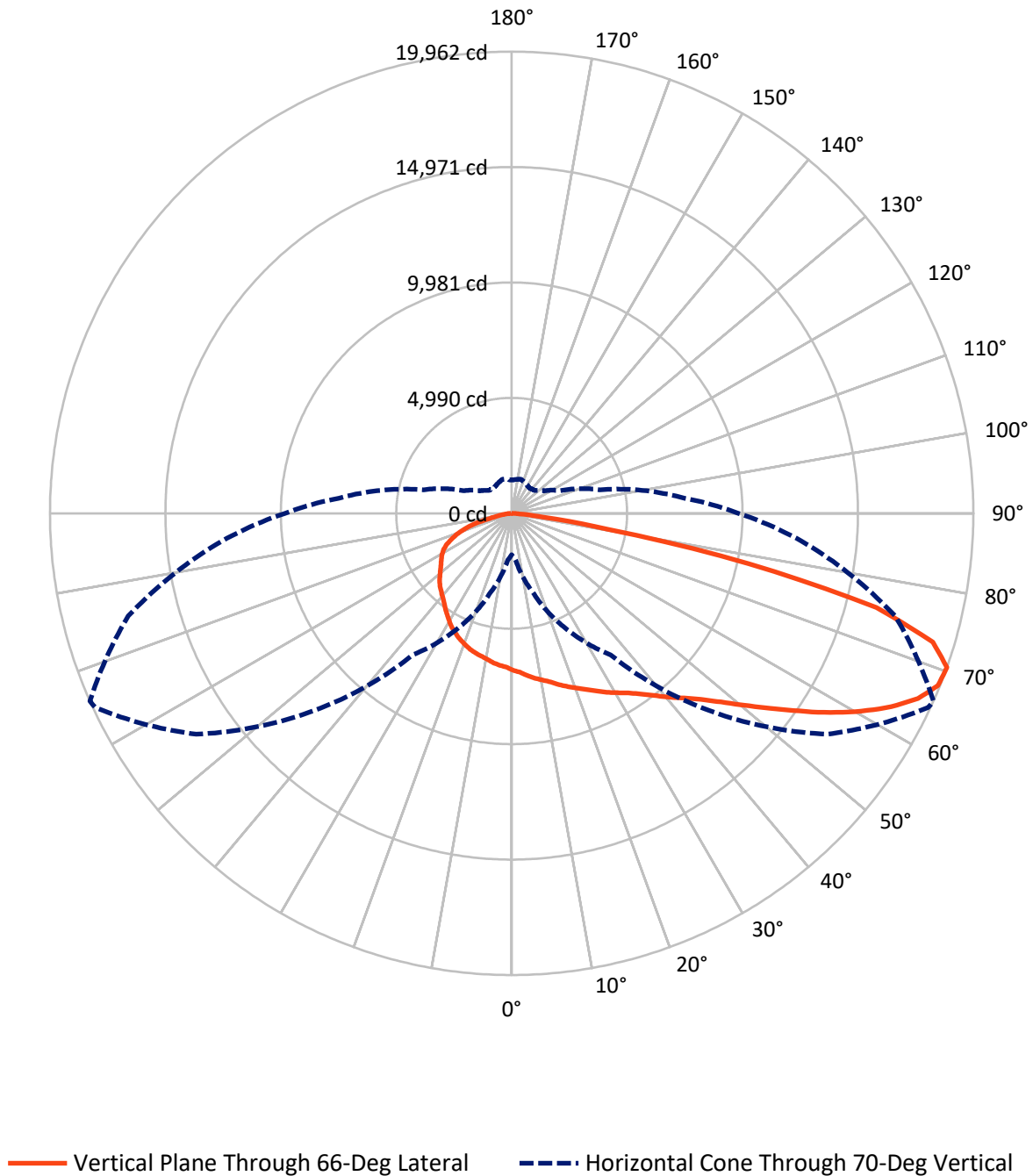
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P841915
CATALOG NUMBER: ARCH4-240-750-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9961.8	0.0	9961.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	27633.2	0.0	27633.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	37595.0	0.0	37595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.0	1.7
10°-20°	1955.7	5.2
20°-30°	3278.4	8.7
30°-40°	4908.8	13.1
40°-50°	6563.0	17.5
50°-60°	7662.6	20.4
60°-70°	7619.3	20.3
70°-80°	4510.7	12.0
80°-90°	444.6	1.2
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°	37595.0	100.0
0°-180°	37595.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841915

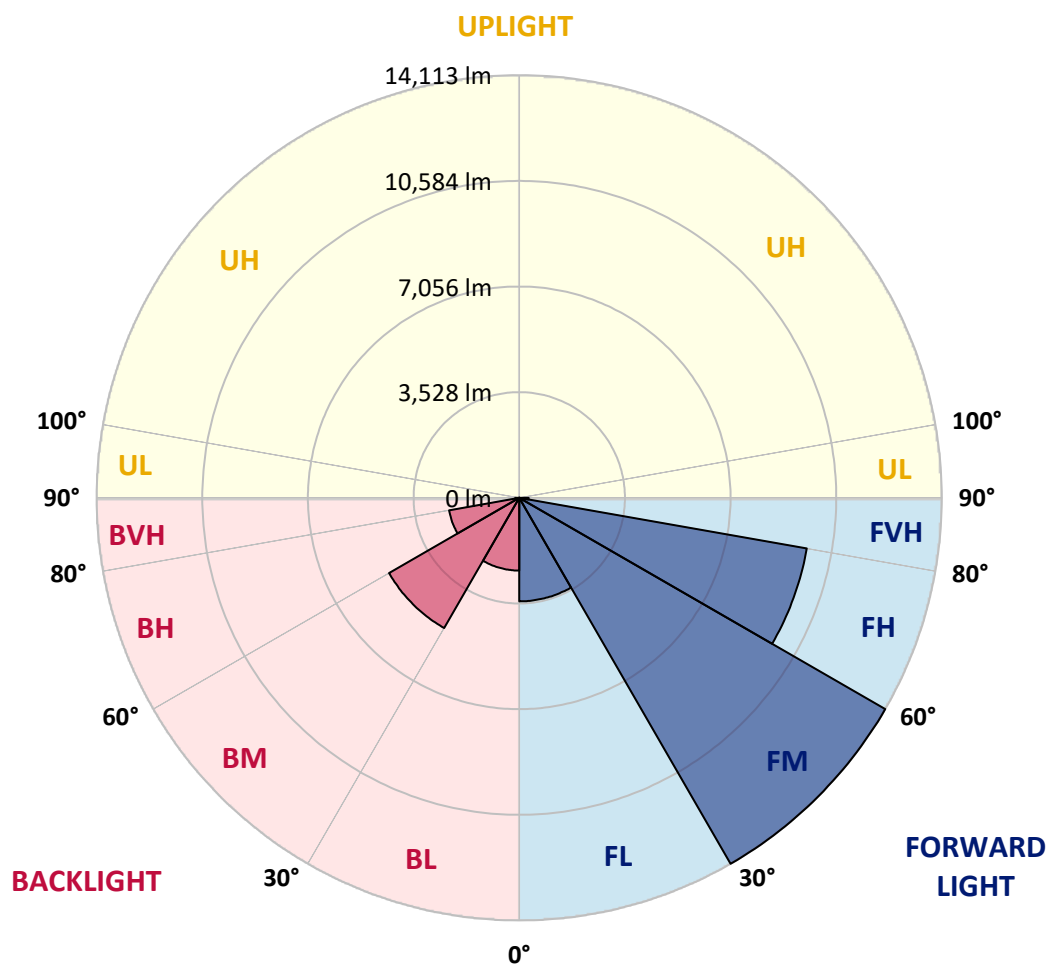
CATALOG NUMBER: ARCH4-240-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3457.8	9.2			
FM	(30°-60°)	14112.7	37.5			
FH	(60°-80°)	9750.3	25.9			G4/12000
FVH	(80°-90°)	312.5	0.8			G3/500
BL	(0°-30°)	2428.3	6.5	B3/2500		
BM	(30°-60°)	5021.8	13.4	B4/8500		
BH	(60°-80°)	2379.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	132.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P841915

CATALOG NUMBER: ARCH4-240-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0
2.5°	7034.5	7023.4	7017.9	6995.7	6945.8	6968.0	6918.1	6884.8	6879.3	6801.7	6757.3
5°	7322.7	7317.2	7306.1	7272.9	7195.2	7206.3	7123.2	7062.2	7045.6	6923.6	6829.4
7.5°	7566.7	7555.6	7550.0	7505.7	7422.5	7417.0	7317.2	7228.5	7200.8	7034.5	6890.4
10°	7755.1	7738.5	7749.6	7705.2	7616.5	7599.9	7472.4	7356.0	7328.3	7117.6	6918.1
12.5°	7915.9	7904.8	7921.4	7882.6	7810.6	7793.9	7666.4	7516.8	7483.5	7239.6	6979.1
15°	8093.3	8054.5	8087.7	8071.1	8021.2	8015.7	7899.3	7733.0	7688.6	7394.8	7073.3
17.5°	8187.5	8165.3	8204.1	8209.7	8187.5	8226.3	8115.4	7915.9	7877.1	7538.9	7156.4
20°	8254.0	8220.8	8265.1	8298.4	8315.0	8392.6	8303.9	8109.9	8065.6	7677.5	7234.1
22.5°	8481.3	8409.2	8414.8	8437.0	8448.0	8558.9	8503.5	8315.0	8270.7	7849.4	7328.3
25°	9052.3	8908.1	8813.9	8747.4	8669.8	8764.0	8730.8	8547.8	8509.0	8054.5	7444.7
27.5°	9939.2	9756.3	9567.8	9373.8	9068.9	9030.1	8974.7	8808.4	8764.0	8259.6	7561.1
30°	10948.1	10765.2	10543.4	10233.0	9662.0	9362.7	9235.2	9052.3	9002.4	8442.5	7672.0
32.5°	11951.4	11790.7	11568.9	11192.0	10377.1	9767.4	9495.7	9307.3	9257.4	8642.1	7805.0
35°	12733.0	12633.3	12489.1	12017.9	11086.7	10244.1	9872.7	9645.4	9590.0	8958.0	8048.9
37.5°	13365.0	13292.9	13171.0	12677.6	11602.2	10720.8	10305.1	10044.5	9983.5	9301.7	8309.5
40°	14296.3	14107.8	14008.0	13292.9	12051.2	11153.2	10792.9	10521.2	10454.7	9667.6	8520.1
42.5°	15089.0	14950.4	14828.4	13841.7	12478.0	11524.6	11253.0	11003.5	10914.8	10027.9	8747.4
45°	15222.0	15277.4	15216.5	14113.3	13154.3	11890.5	11718.6	11557.9	11474.7	10515.7	9091.1
47.5°	15227.5	15227.5	14867.2	14268.5	13991.4	12300.7	12217.5	12272.9	12184.2	11136.6	9501.3
50°	14828.4	14900.5	14712.0	14307.3	14213.1	12710.9	12827.3	13126.6	13037.9	11796.2	9944.7
52.5°	14002.5	14240.8	14235.3	14246.4	13891.6	13060.1	13470.3	14152.1	14002.5	12539.0	10415.9
55°	12544.6	13021.3	13448.1	13814.0	13614.4	13270.7	14257.5	15244.2	15089.0	13370.5	10892.7
57.5°	11297.3	11602.2	12134.4	13171.0	13287.4	13453.7	14994.7	16386.1	16247.5	14290.7	11391.6
60°	9872.7	10294.0	10826.1	12300.7	12888.3	13692.0	15804.0	17500.3	17367.3	15222.0	11873.8
62.5°	7683.1	8226.3	9290.6	10964.7	12306.2	13841.7	16441.5	18481.5	18420.5	16103.4	12306.2
65°	5354.9	5837.1	7328.3	9323.9	11380.5	13775.2	16951.5	19357.3	19301.9	16824.0	12611.1
67.5°	3126.4	3686.3	5371.5	7505.7	9745.2	13315.1	17117.8	19872.9	19872.9	17261.9	12694.2
70°	1785.0	2045.5	3542.2	5471.3	7472.4	12045.7	16652.2	19867.3	19961.5	17162.2	12350.5
72.5°	1247.3	1363.7	2383.6	3680.8	5066.6	9745.2	15432.6	18908.3	19035.8	16219.8	11175.4
75°	970.1	1053.2	1679.6	2511.1	3193.0	6618.7	12766.3	15942.6	16280.8	13825.1	9035.6
77.5°	737.3	798.2	981.2	1568.8	2045.5	3802.7	8425.9	10454.7	10476.9	8464.7	4844.9
80°	537.7	598.7	654.1	959.0	1086.5	1779.4	3181.9	4368.1	4246.2	4096.5	2622.0
82.5°	321.5	382.5	399.1	521.1	532.2	759.4	1114.2	1408.0	1352.6	1801.6	1230.6
85°	138.6	194.0	205.1	238.4	227.3	310.4	443.5	371.4	332.6	382.5	266.1
87.5°	33.3	55.4	55.4	61.0	49.9	77.6	83.2	61.0	55.4	66.5	66.5
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: P841915

CATALOG NUMBER: ARCH4-240-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0	6785.0
2.5°	6746.2	6729.6	6735.2	6640.9	6613.2	6585.5	6568.9	6557.8	6546.7	6563.3	6579.9
5°	6796.1	6757.3	6713.0	6574.4	6519.0	6458.0	6413.6	6374.8	6358.2	6358.2	6374.8
7.5°	6834.9	6768.4	6674.2	6491.2	6391.5	6308.3	6236.3	6186.4	6158.6	6158.6	6175.3
10°	6840.5	6746.2	6596.6	6374.8	6241.8	6119.8	6036.7	5981.3	5942.5	5942.5	5953.5
12.5°	6873.7	6746.2	6552.2	6286.1	6119.8	5970.2	5870.4	5787.2	5770.6	5770.6	5781.7
15°	6929.2	6774.0	6524.5	6208.5	6009.0	5837.1	5726.3	5637.6	5604.3	5626.5	5632.0
17.5°	6979.1	6790.6	6474.6	6108.8	5870.4	5681.9	5560.0	5482.4	5438.0	5487.9	5487.9
20°	7012.3	6790.6	6402.6	5981.3	5720.7	5510.1	5393.7	5299.4	5266.2	5327.1	5332.7
22.5°	7062.2	6785.0	6324.9	5853.8	5560.0	5338.2	5221.8	5149.8	5133.1	5199.6	5221.8
25°	7117.6	6796.1	6241.8	5709.6	5382.6	5166.4	5077.7	5044.4	5055.5	5138.7	5166.4
27.5°	7178.6	6818.3	6158.6	5548.9	5188.6	4994.5	4944.7	4961.3	5005.6	5111.0	5144.2
30°	7234.1	6823.8	6042.2	5360.4	4966.8	4783.9	4806.1	4878.1	4944.7	5050.0	5088.8
32.5°	7306.1	6829.4	5920.3	5155.3	4728.5	4595.4	4695.2	4811.6	4878.1	4977.9	5022.3
35°	7483.5	6923.6	5826.0	4955.7	4506.7	4434.7	4601.0	4750.6	4789.4	4878.1	4916.9
37.5°	7688.6	7078.8	5776.2	4750.6	4290.5	4273.9	4484.6	4634.2	4645.3	4700.7	4739.6
40°	7816.1	7145.4	5720.7	4578.8	4096.5	4107.6	4323.8	4440.2	4418.0	4456.8	4484.6
42.5°	7943.6	7167.5	5604.3	4434.7	3913.6	3924.7	4091.0	4174.1	4185.2	4268.4	4307.2
45°	8159.8	7228.5	5476.8	4301.6	3747.3	3708.5	3808.3	3919.1	4063.3	4224.0	4268.4
47.5°	8448.0	7356.0	5343.8	4140.9	3586.5	3459.0	3497.8	3691.9	3841.5	3991.2	4018.9
50°	8741.8	7483.5	5221.8	3946.9	3425.8	3193.0	3209.6	3387.0	3508.9	3625.3	3642.0
52.5°	9030.1	7594.4	5116.5	3763.9	3242.9	2877.0	2943.5	3126.4	3209.6	3265.0	3281.7
55°	9318.3	7688.6	5022.3	3608.7	3032.2	2627.5	2688.5	2860.4	2943.5	2971.2	2982.3
57.5°	9617.7	7799.5	4950.2	3475.7	2793.8	2405.8	2444.6	2566.6	2644.2	2677.4	2666.3
60°	9867.1	7893.7	4911.4	3337.1	2555.5	2200.7	2189.6	2300.5	2411.4	2444.6	2433.5
62.5°	10061.2	7954.7	4850.4	3159.7	2344.8	1995.6	1940.2	2084.3	2200.7	2222.9	2239.5
65°	10166.5	7960.2	4700.7	2932.4	2128.6	1773.9	1735.1	1879.2	1951.3	1973.4	1973.4
67.5°	10149.8	7871.5	4407.0	2627.5	1929.1	1574.3	1541.0	1629.7	1735.1	1751.7	1735.1
70°	9806.2	7505.7	3935.8	2306.0	1690.7	1396.9	1335.9	1424.6	1524.4	1463.4	1435.7
72.5°	8830.5	6557.8	3242.9	1951.3	1424.6	1175.2	1147.5	1236.2	1241.7	1252.8	1225.1
75°	6968.0	4883.7	2428.0	1518.9	1153.0	986.7	981.2	964.5	986.7	1031.1	997.8
77.5°	3658.6	2439.1	1313.8	931.3	837.0	792.7	753.9	748.4	814.9	842.6	809.3
80°	1984.5	1369.2	753.9	559.9	510.0	515.5	565.4	554.3	626.4	643.0	615.3
82.5°	864.8	648.6	371.4	338.1	338.1	332.6	349.2	388.0	465.6	465.6	371.4
85°	188.5	160.8	144.1	166.3	188.5	188.5	188.5	188.5	133.0	72.1	49.9
87.5°	61.0	61.0	61.0	66.5	72.1	72.1	61.0	44.3	27.7	5.5	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)