

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: P841670

Luminaire Tested: **ARCH4-210-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32518 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 213.1
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



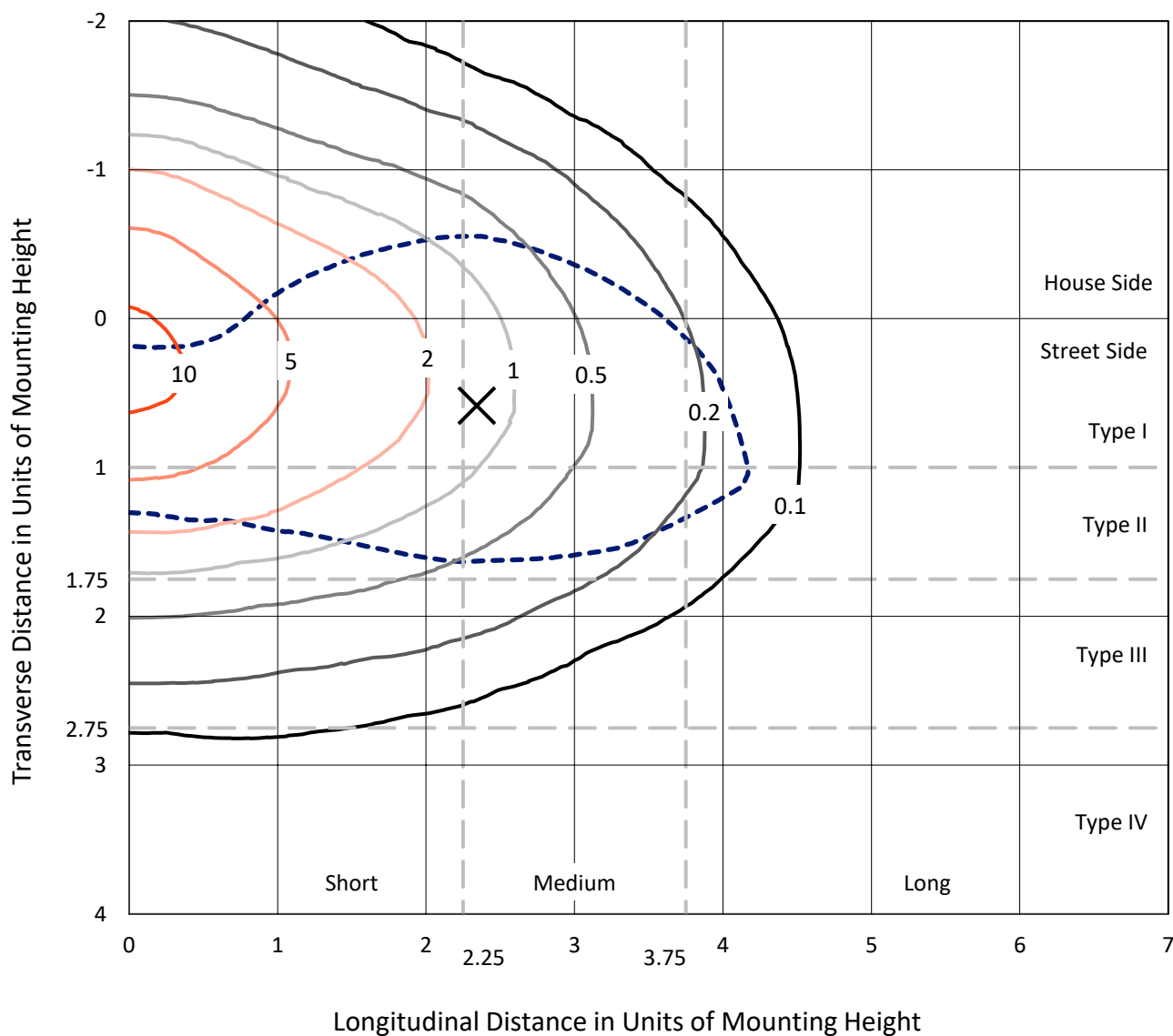
REPORT NUMBER: P841670

CATALOG NUMBER: ARCH4-210-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

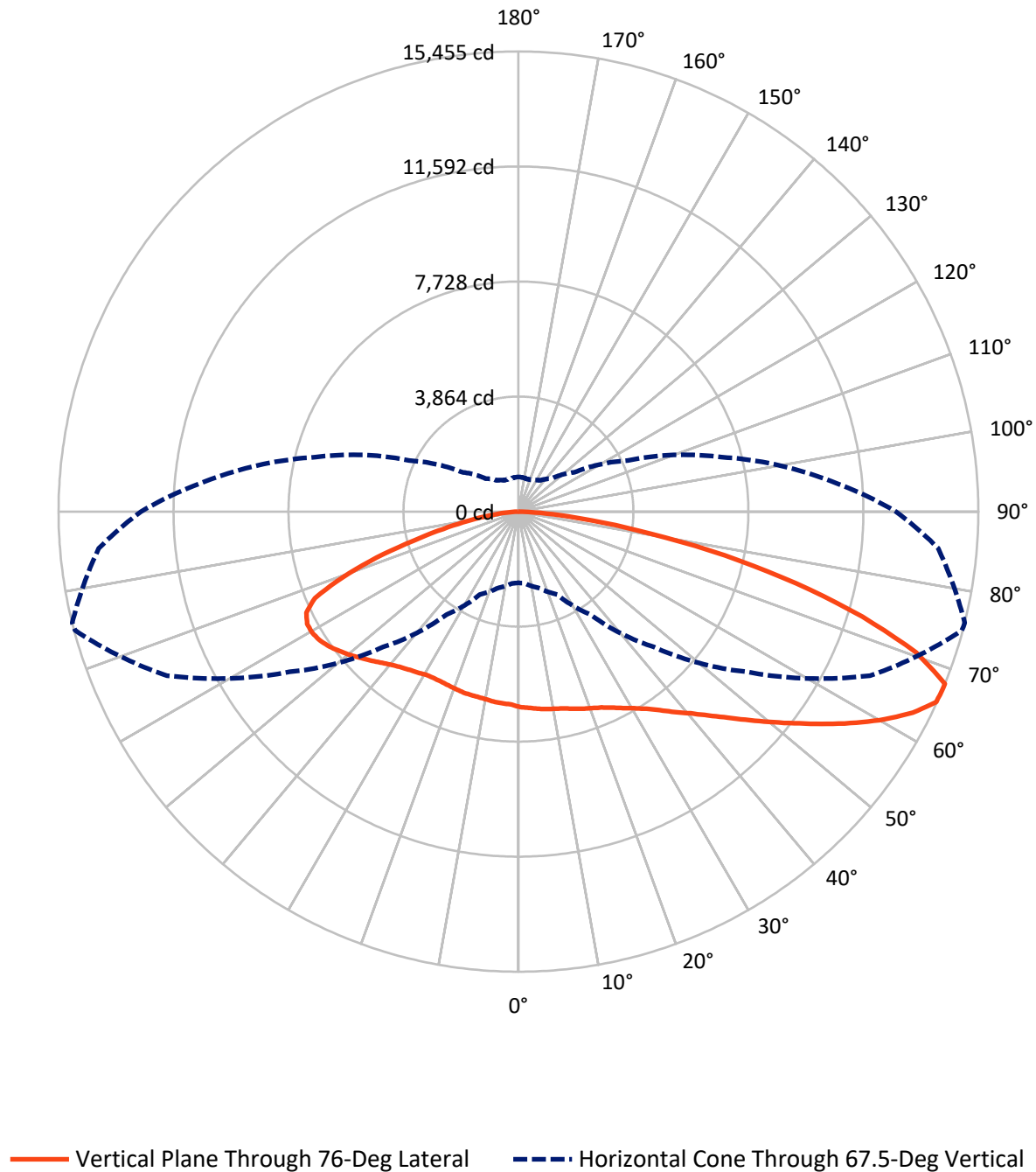
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Medium - N/A

REPORT NUMBER: P841670
CATALOG NUMBER: ARCH4-210-730-U-T2U

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10988.0	0.0	10988.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	21530.0	0.0	21530.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	32518.0	0.0	32518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.4	1.9
10°-20°	1936.4	6.0
20°-30°	3290.0	10.1
30°-40°	4681.2	14.4
40°-50°	5912.2	18.2
50°-60°	6401.1	19.7
60°-70°	5953.7	18.3
70°-80°	3197.7	9.8
80°-90°	512.4	1.6
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°	32518.0	100.0
0°-180°	32518.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841670

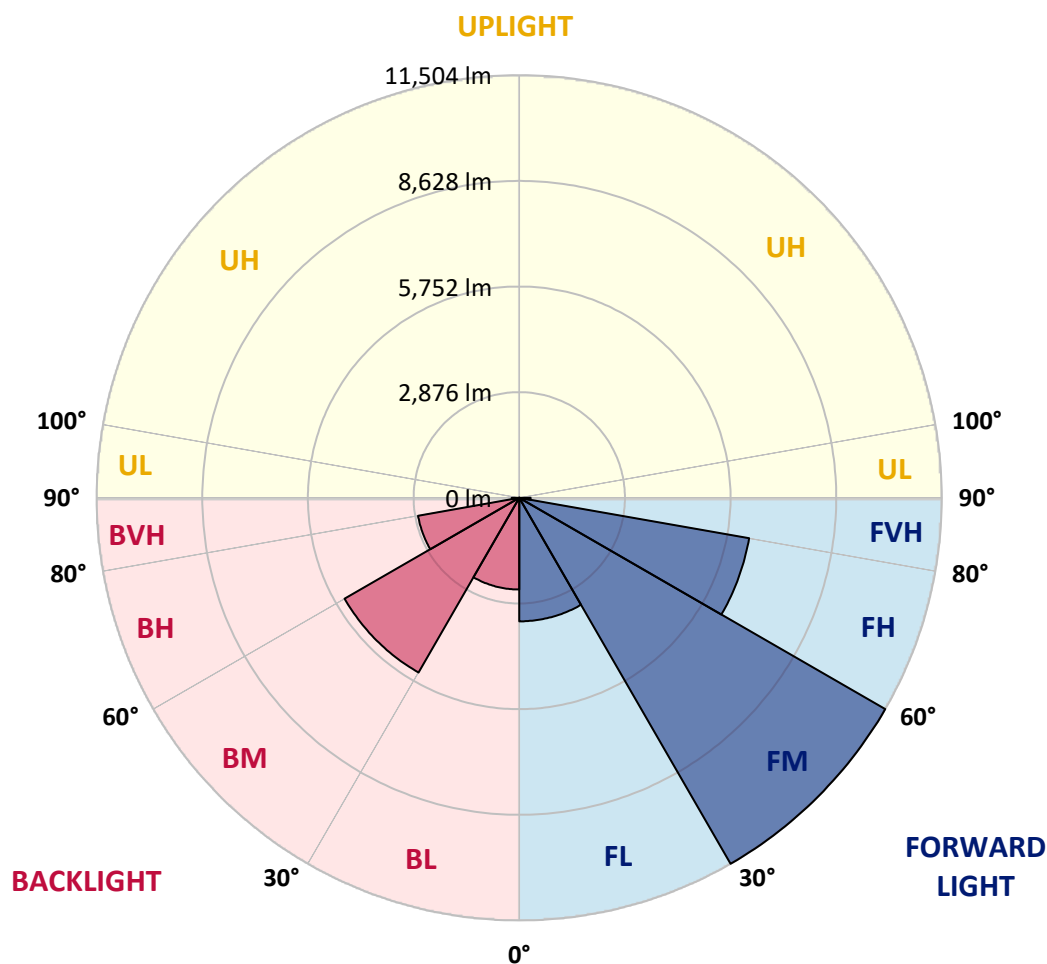
CATALOG NUMBER: ARCH4-210-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3362.7	10.3			
FM	(30°-60°)	11503.6	35.4			
FH	(60°-80°)	6353.7	19.5			G3/7500
FVH	(80°-90°)	309.9	1.0			G3/500
BL	(0°-30°)	2497.1	7.7	B3/2500		
BM	(30°-60°)	5490.8	16.9	B4/8500		
BH	(60°-80°)	2797.6	8.6	B4/5000		G4/5000
BVH	(80°-90°)	202.4	0.6			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 II Medium



REPORT NUMBER: P841670

CATALOG NUMBER: ARCH4-210-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6
2.5°	6767.8	6755.7	6707.4	6713.5	6713.5	6707.4	6635.0	6604.8	6604.8	6598.8	6532.3
5°	7009.3	6991.2	6936.8	6924.8	6900.6	6870.4	6755.7	6689.3	6659.1	6653.1	6562.5
7.5°	7293.0	7268.9	7202.5	7166.3	7105.9	7027.4	6882.5	6779.9	6707.4	6701.4	6574.6
10°	7576.8	7552.6	7474.2	7407.7	7323.2	7196.4	7009.3	6858.4	6743.6	6731.6	6580.6
12.5°	7914.9	7890.7	7794.1	7709.6	7582.8	7413.8	7166.3	6961.0	6804.0	6785.9	6598.8
15°	8271.1	8234.9	8138.3	8041.7	7884.7	7667.3	7371.5	7099.8	6900.6	6870.4	6653.1
17.5°	8566.9	8518.6	8440.1	8343.5	8168.4	7914.9	7576.8	7238.7	6991.2	6967.0	6707.4
20°	8820.5	8784.2	8699.7	8609.2	8422.0	8144.3	7770.0	7377.6	7075.7	7045.5	6749.7
22.5°	9062.0	9013.7	8965.4	8899.0	8693.7	8385.8	7993.4	7546.6	7184.4	7148.1	6804.0
25°	9339.7	9285.3	9267.2	9231.0	8989.5	8675.6	8265.0	7757.9	7335.3	7293.0	6900.6
27.5°	9683.8	9623.4	9587.2	9587.2	9297.4	8971.4	8554.8	8005.4	7510.4	7474.2	7021.4
30°	10046.0	9973.6	9919.3	9919.3	9593.2	9267.2	8838.6	8253.0	7709.6	7667.3	7178.3
32.5°	10366.0	10293.6	10233.2	10227.2	9889.1	9563.1	9134.4	8524.6	7951.1	7896.8	7371.5
35°	10613.5	10547.1	10492.8	10504.9	10184.9	9864.9	9466.5	8886.9	8253.0	8192.6	7625.1
37.5°	10764.5	10740.3	10710.1	10752.4	10456.6	10154.7	9810.6	9237.0	8597.1	8542.8	7939.0
40°	10843.0	10824.8	10945.6	10999.9	10686.0	10414.3	10154.7	9599.3	8971.4	8911.0	8301.3
42.5°	10957.7	11108.6	11156.9	11144.8	10855.0	10613.5	10468.6	9991.7	9412.1	9357.8	8735.9
45°	10547.1	10510.9	10776.6	10921.4	10867.1	10740.3	10764.5	10462.6	9925.3	9871.0	9237.0
47.5°	9997.7	9949.4	10100.4	10456.6	10667.9	10788.6	11030.1	10951.6	10516.9	10468.6	9822.7
50°	8838.6	8905.0	9466.5	9943.4	10360.0	10776.6	11253.5	11476.9	11169.0	11120.7	10450.5
52.5°	7552.6	7619.1	8204.7	9303.5	9985.7	10686.0	11416.5	12002.1	11875.3	11821.0	11120.7
55°	6616.9	6761.8	7425.9	8222.8	9454.4	10402.2	11513.1	12539.4	12636.0	12587.7	11851.2
57.5°	5687.1	5795.8	6296.9	7003.2	8729.9	9907.2	11507.1	13040.5	13433.0	13384.7	12593.8
60°	4594.4	4733.2	5131.7	5892.4	7763.9	9315.5	11338.0	13433.0	14199.7	14163.5	13312.2
62.5°	3845.7	3888.0	4171.8	4829.8	6520.3	8566.9	10957.7	13644.3	14894.0	14869.8	13958.2
65°	3097.1	3103.2	3362.8	3912.2	5318.8	7637.2	10311.7	13565.8	15419.2	15431.3	14423.1
67.5°	2390.8	2421.0	2656.4	3073.0	4226.1	6429.7	9388.0	13034.5	15425.3	15455.4	14157.4
70°	1654.2	1678.4	2034.6	2439.1	3266.2	5125.7	8138.3	11627.8	14157.4	14181.6	12690.4
72.5°	1165.2	1177.3	1557.6	1950.0	2553.8	3863.9	6139.9	9617.4	12068.5	12086.6	10673.9
75°	869.4	881.4	1098.8	1479.1	1956.1	2674.5	4195.9	7365.5	9641.5	9641.5	8428.0
77.5°	615.8	621.8	712.4	1020.3	1304.1	1805.1	2523.6	4823.8	7075.7	7087.8	6139.9
80°	416.6	422.6	464.9	688.3	815.0	978.0	1370.5	2529.6	4461.6	4479.7	3900.1
82.5°	217.3	229.4	259.6	350.2	410.5	543.4	706.4	1285.9	2469.2	2517.5	2342.5
85°	84.5	84.5	96.6	114.7	150.9	211.3	326.0	489.0	1116.9	1153.1	1032.4
87.5°	30.2	30.2	36.2	36.2	42.3	48.3	54.3	72.4	126.8	126.8	120.7
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: P841670

CATALOG NUMBER: ARCH4-210-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6	6568.6
2.5°	6508.2	6508.2	6478.0	6490.1	6484.0	6472.0	6459.9	6478.0	6459.9	6417.6	6411.6
5°	6520.3	6508.2	6459.9	6453.9	6435.7	6411.6	6381.4	6393.5	6363.3	6327.1	6321.0
7.5°	6526.3	6502.2	6435.7	6411.6	6375.4	6327.1	6278.8	6278.8	6236.5	6200.3	6194.3
10°	6514.2	6484.0	6393.5	6345.2	6278.8	6206.3	6139.9	6121.8	6073.5	6031.2	6031.2
12.5°	6520.3	6478.0	6363.3	6284.8	6194.3	6103.7	6019.2	5995.0	5952.8	5910.5	5904.5
15°	6556.5	6496.1	6351.2	6248.6	6115.8	6013.1	5922.6	5904.5	5868.2	5838.1	5838.1
17.5°	6592.7	6514.2	6333.1	6188.2	6025.2	5910.5	5826.0	5826.0	5801.8	5783.7	5783.7
20°	6610.8	6520.3	6296.9	6103.7	5916.5	5795.8	5717.3	5729.4	5723.3	5717.3	5717.3
22.5°	6653.1	6532.3	6266.7	6025.2	5801.8	5675.0	5602.6	5620.7	5614.7	5614.7	5620.7
25°	6719.5	6562.5	6242.6	5952.8	5693.2	5554.3	5475.8	5487.9	5487.9	5487.9	5487.9
27.5°	6810.1	6622.9	6236.5	5886.4	5584.5	5427.5	5330.9	5330.9	5306.8	5312.8	5318.8
30°	6948.9	6737.6	6248.6	5826.0	5469.8	5270.5	5155.8	5137.7	5131.7	5143.8	5149.8
32.5°	7118.0	6894.6	6321.0	5783.7	5349.0	5095.5	4950.6	4944.5	4926.4	4926.4	4926.4
35°	7329.3	7045.5	6387.4	5777.7	5228.3	4908.3	4751.3	4733.2	4691.0	4672.9	4672.9
37.5°	7600.9	7281.0	6465.9	5735.4	5125.7	4727.2	4540.0	4479.7	4431.4	4425.3	4425.3
40°	7933.0	7546.6	6580.6	5687.1	5017.0	4540.0	4292.5	4189.9	4195.9	4220.1	4220.1
42.5°	8325.4	7872.6	6725.5	5663.0	4860.0	4346.8	4002.7	3882.0	3924.2	3948.4	3954.4
45°	8784.2	8259.0	6888.5	5632.8	4715.1	4129.5	3694.8	3543.9	3562.0	3568.0	3574.1
47.5°	9315.5	8687.7	7057.6	5608.6	4552.1	3857.8	3356.7	3157.5	3151.5	3115.2	3127.3
50°	9871.0	9140.4	7232.7	5566.4	4352.9	3537.8	3000.5	2765.1	2716.8	2662.4	2668.5
52.5°	10462.6	9605.3	7395.7	5500.0	4105.4	3211.8	2662.4	2408.9	2312.3	2251.9	2264.0
55°	11114.6	10082.3	7552.6	5397.3	3845.7	2885.8	2360.6	2101.0	1980.2	1931.9	1938.0
57.5°	11712.3	10541.1	7667.3	5270.5	3562.0	2590.0	2094.9	1841.4	1762.9	1756.8	1762.9
60°	12291.9	10927.5	7715.6	5095.5	3272.2	2318.3	1847.4	1654.2	1599.9	1630.1	1636.1
62.5°	12780.9	11175.0	7691.5	4860.0	2976.4	2058.7	1648.2	1509.3	1473.1	1533.5	1539.5
65°	13064.7	11253.5	7522.5	4521.9	2656.4	1805.1	1461.0	1310.1	1292.0	1328.2	1346.3
67.5°	12690.4	10764.5	7063.6	4057.1	2300.2	1569.7	1279.9	1159.2	1129.0	1159.2	1159.2
70°	11247.5	9327.6	5976.9	3320.5	1907.8	1340.3	1110.9	1026.3	1002.2	1026.3	1020.3
72.5°	9369.9	7757.9	4709.1	2590.0	1503.3	1129.0	966.0	887.5	863.3	839.2	827.1
75°	7268.9	5892.4	3417.1	1901.7	1135.0	905.6	809.0	736.5	676.2	700.3	688.3
77.5°	5324.9	4135.5	2421.0	1316.1	815.0	700.3	633.9	579.6	537.3	585.6	579.6
80°	3429.2	2674.5	1618.0	881.4	561.5	489.0	464.9	434.7	476.9	621.8	633.9
82.5°	2094.9	1696.5	966.0	573.5	368.3	326.0	301.9	301.9	489.0	537.3	543.4
85°	935.8	899.6	525.2	295.8	205.3	187.2	169.0	217.3	199.2	144.9	150.9
87.5°	150.9	157.0	114.7	102.6	78.5	78.5	60.4	42.3	30.2	18.1	18.1
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)