

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: P841695

Luminaire Tested: **ARCH4-210-750-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34132 lumens
Efficiency: N/A
Efficacy: 160.2 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

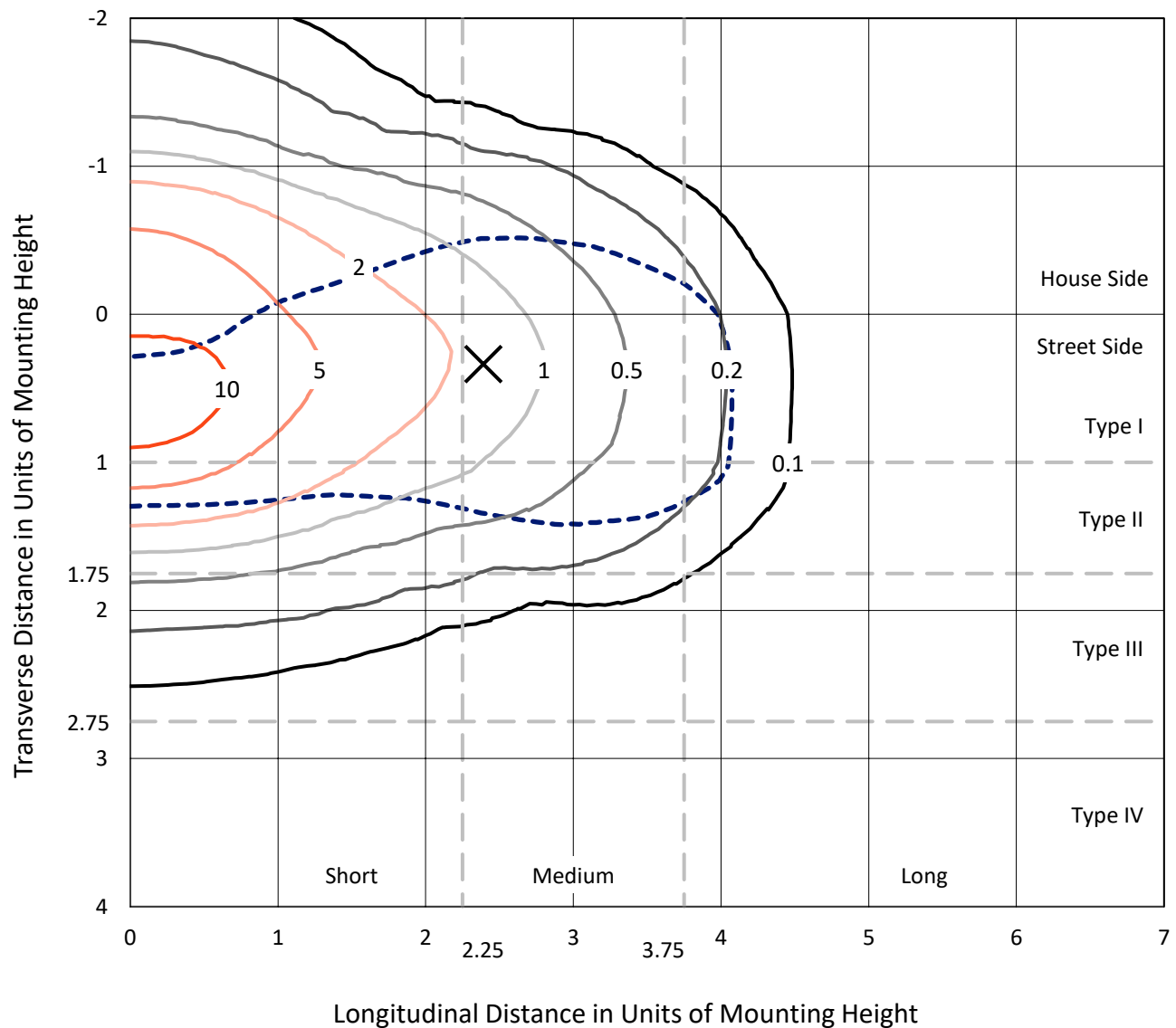
Input Watts (W): 213.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

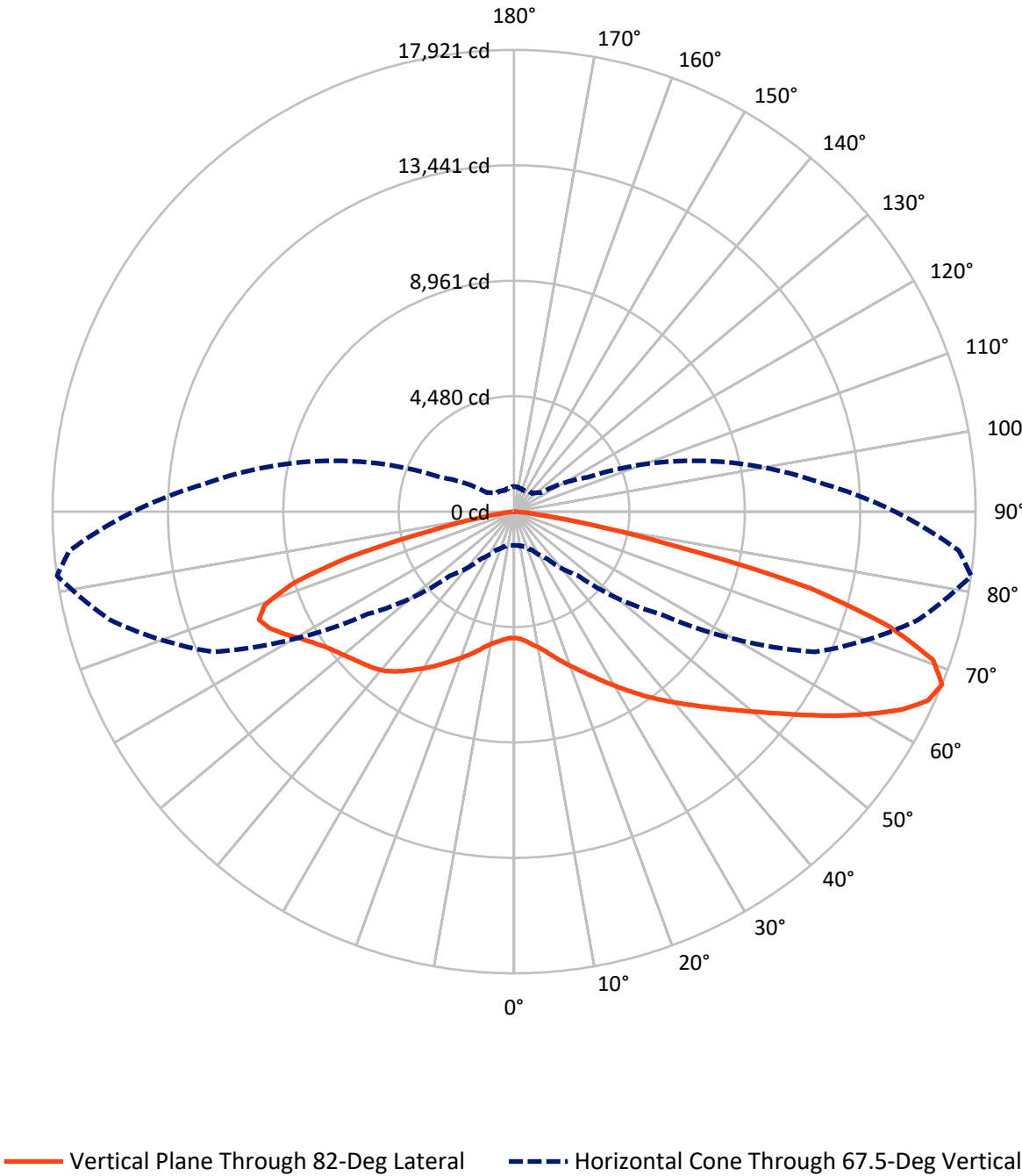
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10394.6	0.0	10394.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	23737.4	0.0	23737.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	34132.0	0.0	34132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.1	1.5
10°-20°	1826.4	5.4
20°-30°	3670.7	10.8
30°-40°	5766.2	16.9
40°-50°	7024.4	20.6
50°-60°	6637.2	19.4
60°-70°	5480.8	16.1
70°-80°	2984.5	8.7
80°-90°	234.7	0.7
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°	34132.0	100.0
0°-180°	34132.0	100.0

Coefficient of Utilization



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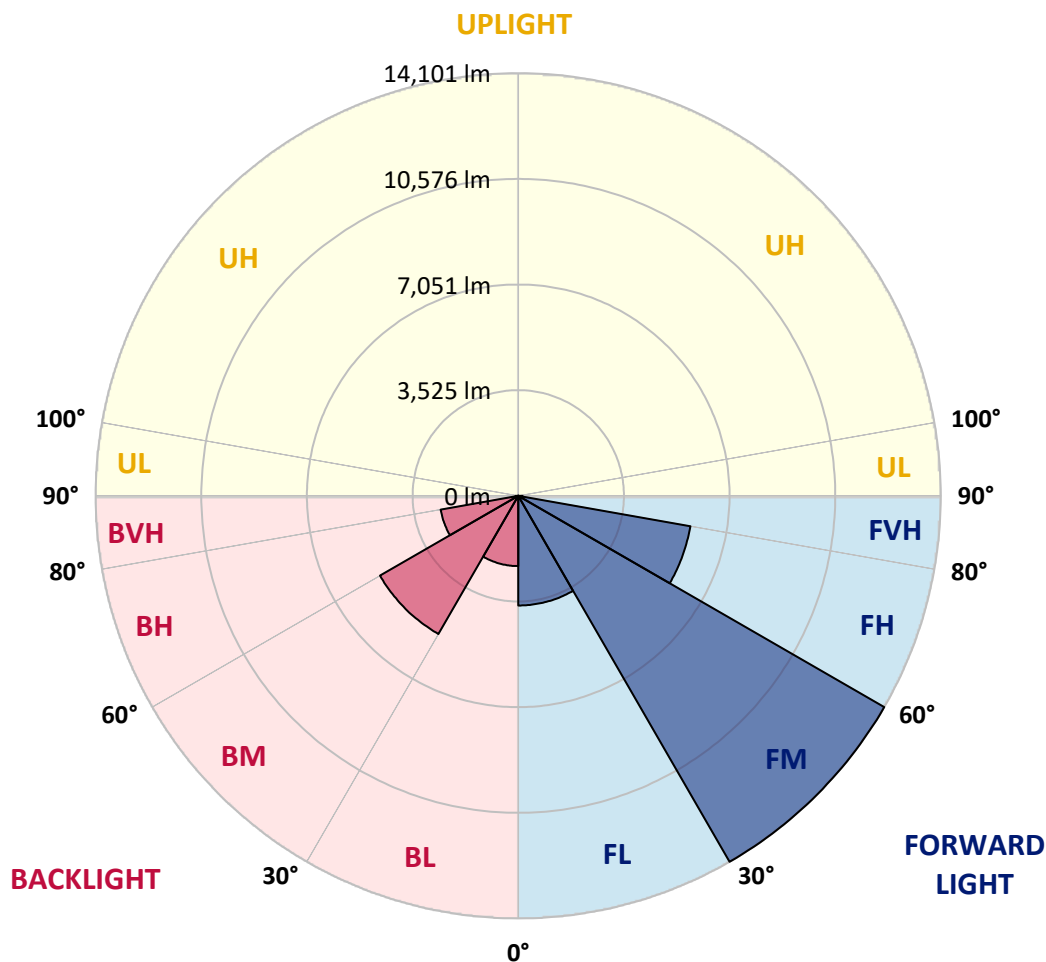
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3660.2	10.7			
FM	(30°-60°)	14101.4	41.3			
FH	(60°-80°)	5834.4	17.1			G3/7500
FVH	(80°-90°)	141.4	0.4			G2/225
BL	(0°-30°)	2344.1	6.9	B3/2500		
BM	(30°-60°)	5326.4	15.6	B4/8500		
BH	(60°-80°)	2630.9	7.7	B4/5000		G4/5000
BVH	(80°-90°)	93.2	0.3			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5
2.5°	5129.5	5129.5	5169.1	5169.1	5134.4	5079.9	5065.0	5005.6	4951.1	4951.1	4956.0
5°	5620.1	5615.2	5644.9	5605.3	5521.0	5412.0	5337.6	5208.8	5099.7	5065.0	5060.1
7.5°	6219.8	6214.8	6229.7	6165.3	6006.7	5828.3	5679.6	5471.4	5293.0	5218.7	5198.9
10°	6888.9	6883.9	6869.0	6760.0	6546.9	6269.4	6046.3	5758.9	5491.3	5372.3	5347.5
12.5°	7657.0	7647.1	7612.4	7453.9	7161.4	6804.6	6482.5	6110.8	5753.9	5590.4	5535.9
15°	8514.4	8499.6	8435.1	8241.9	7850.3	7399.3	6983.0	6507.3	6071.1	5858.0	5783.7
17.5°	9416.4	9416.4	9317.3	9029.9	8593.7	8033.7	7518.3	6913.6	6403.2	6140.5	6051.3
20°	10333.3	10328.3	10204.4	9857.5	9342.1	8697.8	8043.6	7379.5	6745.1	6428.0	6318.9
22.5°	11299.7	11289.8	11136.2	10739.7	10125.1	9396.6	8633.4	7840.4	7121.8	6740.2	6601.4
25°	12409.9	12395.0	12206.7	11721.0	10992.4	10169.7	9297.5	8380.6	7553.0	7087.1	6923.6
27.5°	13589.4	13569.6	13346.6	12781.6	11983.7	10992.4	10031.0	9005.1	8028.7	7473.7	7290.3
30°	14640.1	14625.2	14382.4	13802.5	12885.6	11810.2	10729.8	9629.5	8529.3	7885.0	7657.0
32.5°	15433.0	15433.0	15215.0	14645.0	13693.5	12593.2	11433.5	10219.3	9049.7	8326.1	8058.5
35°	15913.8	15928.6	15740.3	15284.4	14387.3	13331.7	12162.1	10913.2	9604.8	8796.9	8509.5
37.5°	15983.2	16032.7	15923.7	15616.4	14868.1	13946.2	12875.7	11582.2	10179.7	9272.7	8950.6
40°	15661.0	15695.7	15700.7	15581.7	15066.3	14387.3	13505.1	12290.9	10789.3	9773.3	9401.6
42.5°	15016.7	15041.5	15086.1	15120.8	14922.6	14580.6	13985.9	12950.1	11438.5	10283.7	9847.6
45°	14184.1	14179.2	14253.5	14402.2	14392.3	14471.6	14253.5	13549.8	12112.5	10863.6	10343.2
47.5°	12940.2	12915.4	13178.1	13515.1	13683.6	14055.3	14258.5	14020.6	12846.0	11502.9	10908.2
50°	10992.4	10967.7	11542.6	12335.5	12831.1	13396.1	13985.9	14303.1	13614.2	12221.5	11522.7
52.5°	8623.5	8598.7	9327.2	10714.9	11795.3	12618.0	13435.8	14367.5	14342.7	13024.4	12216.6
55°	6413.1	6393.3	7102.0	8603.6	10353.1	11716.0	12761.7	14199.0	15026.6	13946.2	13059.1
57.5°	4519.9	4510.0	5124.5	6368.5	8499.6	10615.8	12112.5	13871.9	15656.1	14947.3	14010.7
60°	3171.9	3157.0	3603.0	4564.5	6428.0	8955.5	11468.2	13435.8	16126.9	15933.6	15021.7
62.5°	2136.0	2126.1	2443.3	3246.2	4564.5	6893.8	10491.9	13143.4	16394.5	16924.8	16042.6
65°	1620.6	1615.7	1759.4	2200.5	3231.3	4951.1	8940.7	13108.7	16429.2	17668.2	16909.9
67.5°	1308.4	1313.3	1392.6	1645.4	2235.2	3518.8	6933.5	12890.6	16245.8	17921.0	17331.2
70°	1070.5	1070.5	1105.2	1273.7	1650.4	2373.9	4842.0	11899.4	15735.4	17261.8	16830.6
72.5°	817.7	822.7	931.7	1030.9	1244.0	1665.2	3102.5	9847.6	14531.0	15219.9	14892.8
75°	649.2	644.3	708.7	847.5	966.4	1189.4	1903.1	7062.3	12365.3	11894.4	11686.3
77.5°	465.9	460.9	510.5	629.4	733.5	842.5	1134.9	3563.4	6725.3	6180.2	6026.5
80°	317.2	307.3	351.9	436.1	485.7	495.6	555.1	1367.9	2934.0	2765.5	2730.8
82.5°	163.5	163.5	188.3	247.8	252.8	257.7	247.8	441.1	971.4	907.0	867.3
85°	64.4	64.4	69.4	84.3	84.3	89.2	89.2	114.0	104.1	99.1	94.2
87.5°	5.0	5.0	9.9	9.9	14.9	14.9	14.9	19.8	24.8	24.8	24.8
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°	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5
2.5°	4946.1	4926.3	4861.9	4847.0	4837.1	4822.2	4827.2	4792.5	4777.6	4782.6	4762.7
5°	5035.3	5000.6	4921.3	4886.6	4876.7	4861.9	4876.7	4851.9	4827.2	4837.1	4827.2
7.5°	5159.2	5109.7	5010.5	4975.8	4970.9	4956.0	4975.8	4956.0	4936.2	4946.1	4926.3
10°	5288.1	5223.6	5114.6	5079.9	5079.9	5075.0	5094.8	5065.0	5045.2	5050.2	5040.3
12.5°	5476.4	5392.1	5273.2	5243.5	5228.6	5243.5	5248.4	5208.8	5174.1	5179.0	5164.2
15°	5704.4	5610.2	5481.4	5436.8	5426.8	5421.9	5402.1	5352.5	5307.9	5302.9	5288.1
17.5°	5952.2	5833.2	5679.6	5635.0	5590.4	5575.5	5526.0	5461.5	5392.1	5392.1	5372.3
20°	6190.1	6056.3	5872.9	5808.5	5744.0	5684.6	5600.3	5496.2	5407.0	5392.1	5372.3
22.5°	6447.8	6289.2	6076.1	5981.9	5867.9	5749.0	5605.3	5466.5	5352.5	5327.7	5312.9
25°	6735.2	6537.0	6284.2	6145.5	5962.1	5778.7	5565.6	5387.2	5253.4	5213.7	5203.8
27.5°	7052.4	6814.5	6507.3	6304.1	6036.4	5749.0	5476.4	5263.3	5099.7	5050.2	5035.3
30°	7374.6	7092.1	6710.4	6413.1	6036.4	5654.8	5312.9	5065.0	4876.7	4807.3	4797.4
32.5°	7696.7	7379.5	6893.8	6472.6	5977.0	5496.2	5099.7	4807.3	4594.2	4510.0	4529.8
35°	8083.3	7696.7	7062.3	6497.3	5877.8	5302.9	4856.9	4514.9	4296.9	4222.5	4237.4
37.5°	8484.7	8013.9	7196.1	6477.5	5739.1	5084.9	4584.3	4252.3	3979.7	3850.8	3865.7
40°	8831.6	8301.3	7290.3	6408.1	5560.7	4837.1	4316.7	3880.6	3503.9	3380.0	3365.1
42.5°	9158.7	8514.4	7339.9	6304.1	5357.5	4549.6	3935.1	3375.0	2998.4	2844.8	2849.7
45°	9500.7	8722.6	7320.0	6165.3	5104.7	4212.6	3444.4	2879.4	2547.4	2408.6	2413.6
47.5°	9892.2	8945.6	7300.2	6016.6	4797.4	3776.5	2973.6	2443.3	2155.9	2056.7	2046.8
50°	10308.5	9193.4	7275.4	5833.2	4455.5	3290.8	2507.7	2036.9	1794.1	1729.7	1714.8
52.5°	10779.3	9461.0	7260.6	5615.2	4044.1	2775.4	2091.4	1680.1	1516.5	1471.9	1467.0
55°	11344.3	9773.3	7280.4	5352.5	3548.5	2289.7	1739.6	1447.2	1338.1	1313.3	1308.4
57.5°	12033.2	10174.7	7339.9	5045.2	3028.1	1868.4	1481.8	1303.4	1234.0	1214.2	1214.2
60°	12781.6	10630.7	7448.9	4698.3	2507.7	1541.3	1313.3	1189.4	1159.7	1184.5	1184.5
62.5°	13589.4	11165.9	7642.2	4277.0	2022.1	1303.4	1179.5	1095.3	1075.5	1125.0	1130.0
65°	14337.8	11686.3	7766.1	3771.5	1605.7	1130.0	1075.5	1001.1	1011.0	1060.6	1055.6
67.5°	14798.7	12117.5	7592.6	3137.2	1273.7	1001.1	966.4	902.0	926.8	966.4	971.4
70°	14516.2	11874.6	6735.2	2369.0	996.2	872.3	847.5	807.8	827.7	877.2	897.0
72.5°	13133.4	10635.6	5238.5	1600.8	802.9	733.5	743.4	723.6	748.4	793.0	837.6
75°	10660.4	8038.7	3513.8	1025.9	634.4	624.5	639.3	624.5	634.4	679.0	703.8
77.5°	5565.6	3920.2	1749.5	639.3	470.8	485.7	510.5	515.4	545.2	555.1	565.0
80°	2597.0	1764.3	728.5	356.8	312.2	342.0	391.5	396.5	406.4	421.3	426.2
82.5°	847.5	530.3	337.0	193.3	178.4	193.3	252.8	302.3	307.3	337.0	337.0
85°	89.2	54.5	74.3	79.3	69.4	84.3	114.0	109.0	49.6	29.7	29.7
87.5°	24.8	19.8	24.8	24.8	19.8	19.8	14.9	5.0	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)