

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: P842230

Luminaire Tested: **ARCH4-290-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842230
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: ARCH4-290-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35895 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 289.7
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



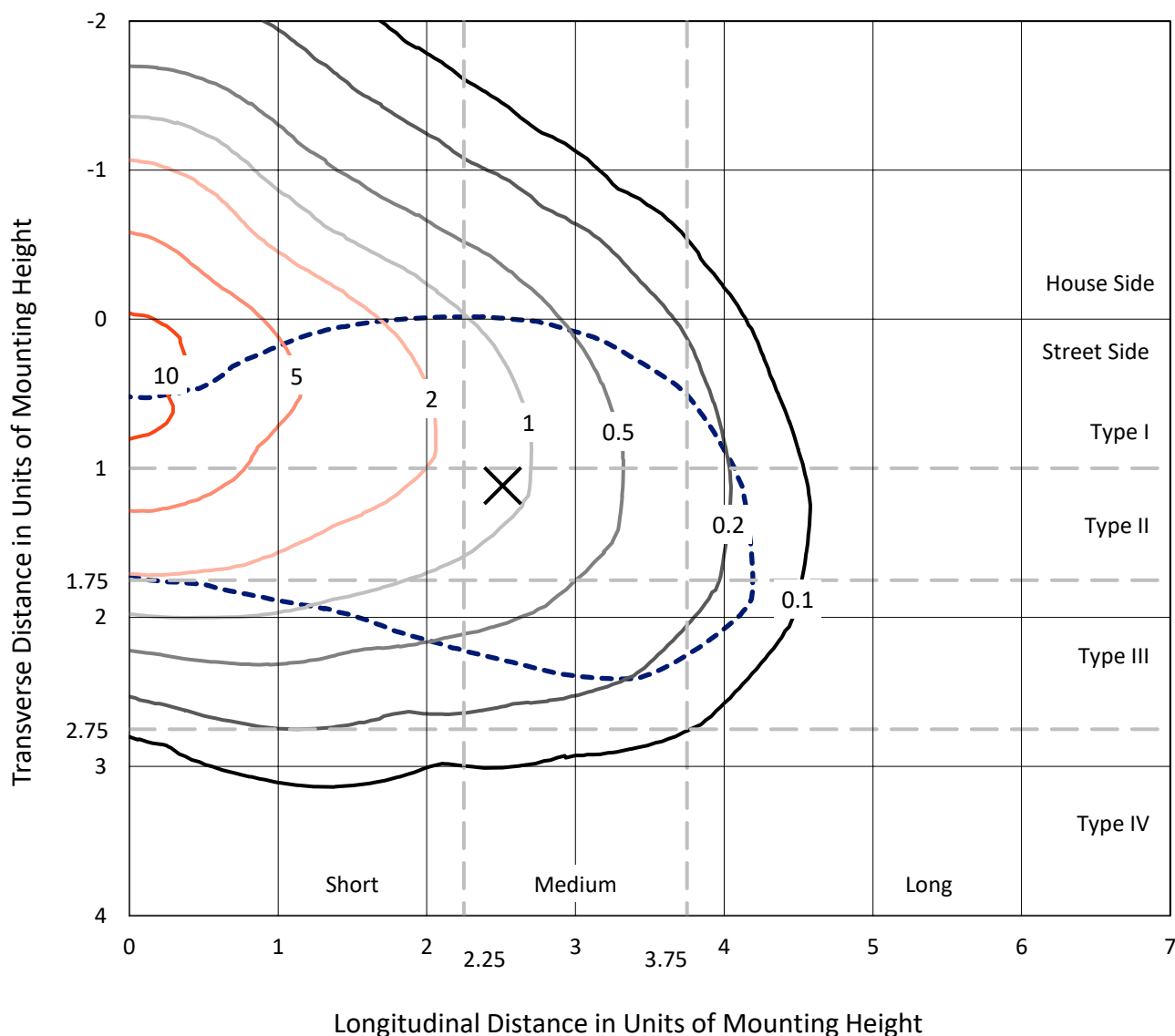
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

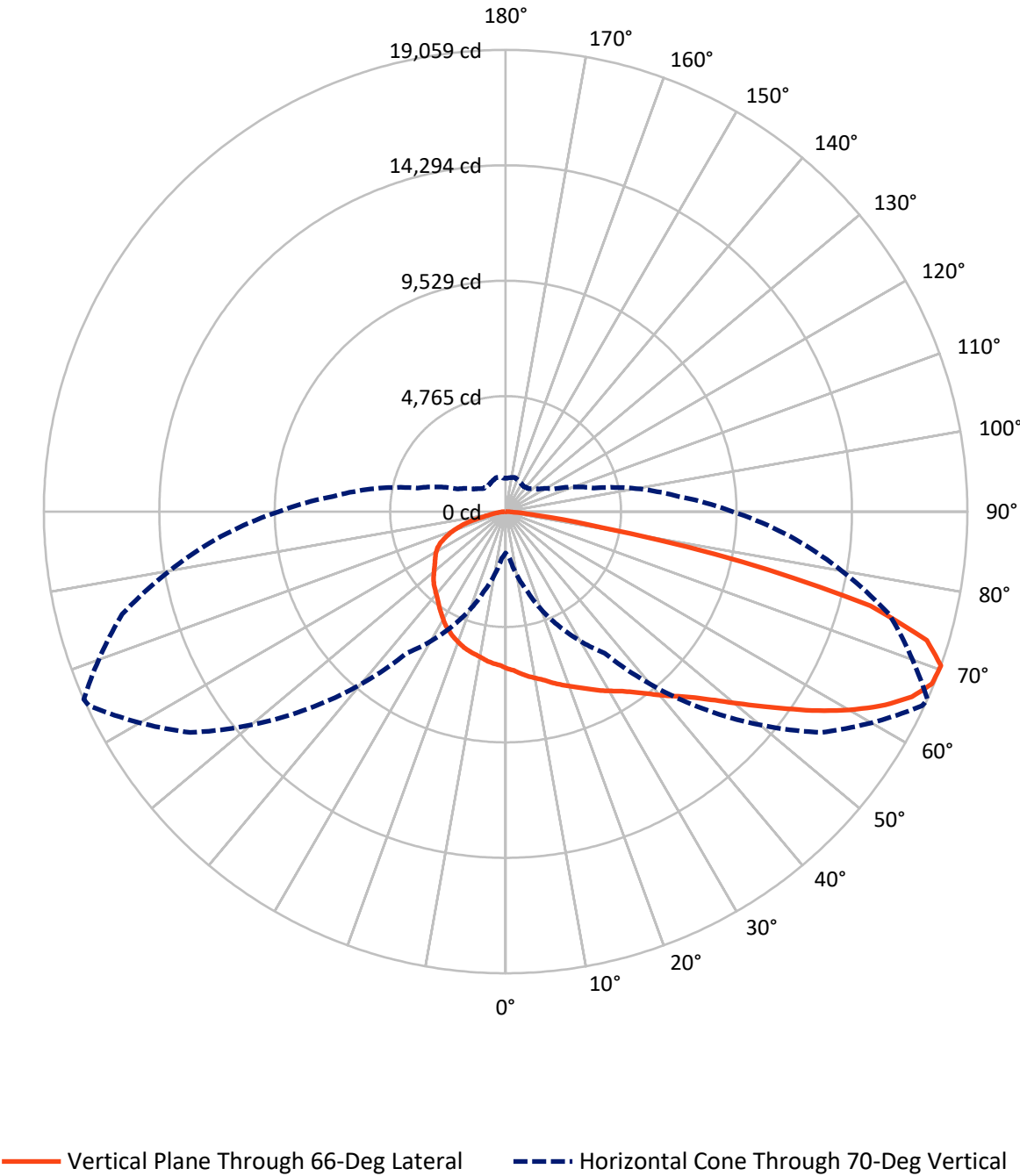
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9511.4	0.0	9511.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	26383.6	0.0	26383.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	35895.0	0.0	35895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.5	1.7
10°-20°	1867.2	5.2
20°-30°	3130.1	8.7
30°-40°	4686.8	13.1
40°-50°	6266.3	17.5
50°-60°	7316.1	20.4
60°-70°	7274.7	20.3
70°-80°	4306.7	12.0
80°-90°	424.5	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°	35895.0	100.0
0°-180°	35895.0	100.0

Coefficient of Utilization



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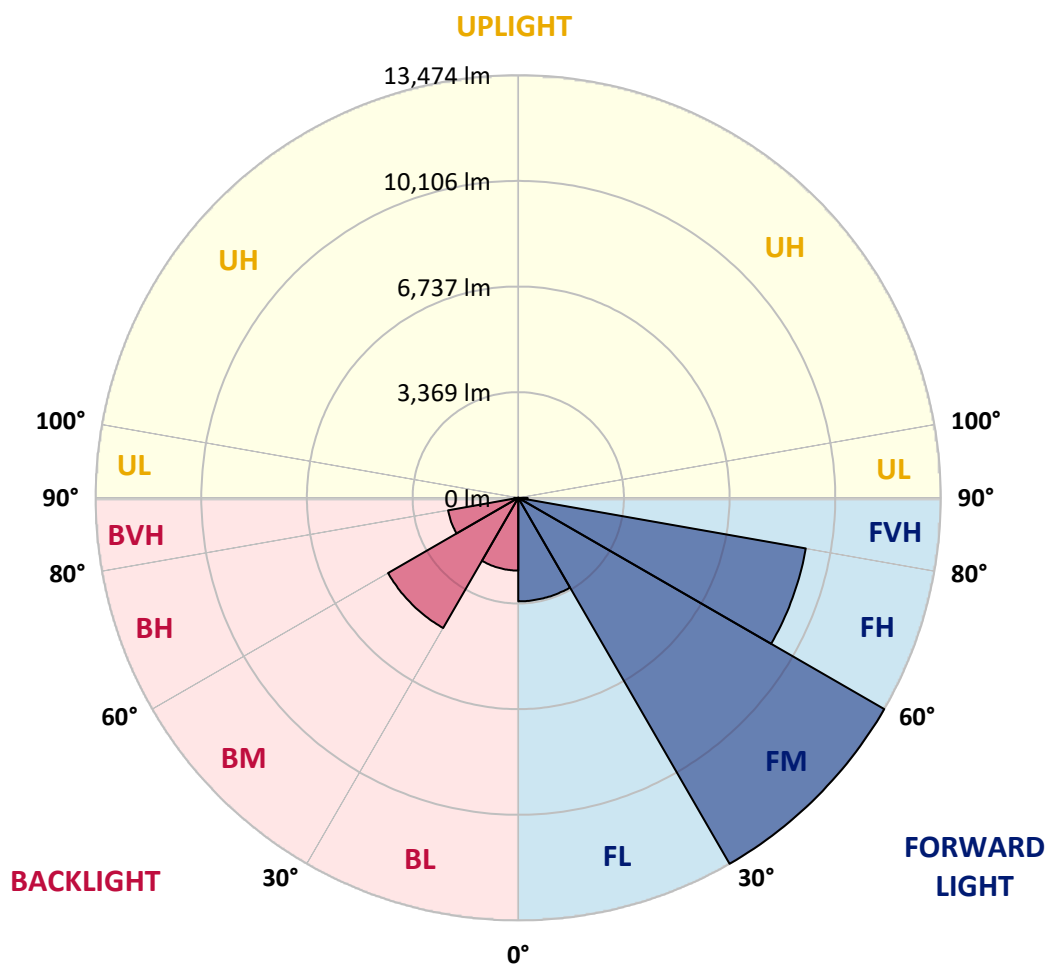
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3301.4	9.2			
FM	(30°-60°)	13474.5	37.5			
FH	(60°-80°)	9309.4	25.9			G4/12000
FVH	(80°-90°)	298.3	0.8			G3/500
BL	(0°-30°)	2318.5	6.5	B3/2500		
BM	(30°-60°)	4794.7	13.4	B3/5000		
BH	(60°-80°)	2272.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	126.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2
2.5°	6716.4	6705.8	6700.5	6679.4	6631.7	6652.9	6605.3	6573.5	6568.2	6494.1	6451.8
5°	6991.6	6986.3	6975.7	6944.0	6869.9	6880.5	6801.1	6742.9	6727.0	6610.5	6520.6
7.5°	7224.5	7213.9	7208.6	7166.3	7086.9	7081.6	6986.3	6901.6	6875.2	6716.4	6578.8
10°	7404.4	7388.6	7399.2	7356.8	7272.1	7256.3	7134.5	7023.4	6996.9	6795.8	6605.3
12.5°	7557.9	7547.3	7563.2	7526.2	7457.4	7441.5	7319.8	7176.9	7145.1	6912.2	6663.5
15°	7727.3	7690.3	7722.0	7706.1	7658.5	7653.2	7542.1	7383.3	7340.9	7060.4	6753.4
17.5°	7817.3	7796.1	7833.2	7838.4	7817.3	7854.3	7748.5	7557.9	7520.9	7198.0	6832.8
20°	7880.8	7849.0	7891.4	7923.1	7939.0	8013.1	7928.4	7743.2	7700.8	7330.4	6906.9
22.5°	8097.8	8029.0	8034.3	8055.4	8066.0	8171.9	8119.0	7939.0	7896.7	7494.4	6996.9
25°	8642.9	8505.3	8415.3	8351.8	8277.7	8367.7	8336.0	8161.3	8124.3	7690.3	7108.1
27.5°	9489.8	9315.1	9135.2	8949.9	8658.8	8621.8	8568.8	8410.1	8367.7	7886.1	7219.2
30°	10453.0	10278.4	10066.7	9770.3	9225.1	8939.3	8817.6	8642.9	8595.3	8060.7	7325.1
32.5°	11411.0	11257.5	11045.8	10685.9	9907.9	9325.7	9066.3	8886.4	8838.8	8251.3	7452.1
35°	12157.3	12062.0	11924.4	11474.5	10585.3	9780.9	9426.2	9209.2	9156.3	8553.0	7685.0
37.5°	12760.6	12691.8	12575.4	12104.3	11077.6	10236.0	9839.1	9590.3	9532.1	8881.1	7933.7
40°	13649.8	13469.8	13374.6	12691.8	11506.3	10648.9	10304.8	10045.5	9982.0	9230.4	8134.8
42.5°	14406.7	14274.3	14157.9	13215.8	11913.8	11003.5	10744.1	10506.0	10421.3	9574.4	8351.8
45°	14533.7	14586.6	14528.4	13475.1	12559.5	11352.8	11188.7	11035.2	10955.8	10040.2	8680.0
47.5°	14539.0	14539.0	14194.9	13623.3	13358.7	11744.4	11665.0	11718.0	11633.3	10633.0	9071.6
50°	14157.9	14226.7	14046.8	13660.4	13570.4	12136.1	12247.2	12533.0	12448.4	11262.8	9495.1
52.5°	13369.3	13596.9	13591.6	13602.2	13263.4	12469.5	12861.2	13512.2	13369.3	11972.0	9944.9
55°	11977.3	12432.5	12840.0	13189.3	12998.8	12670.7	13612.8	14554.8	14406.7	12765.9	10400.1
57.5°	10786.5	11077.6	11585.7	12575.4	12686.5	12845.3	14316.7	15645.1	15512.8	13644.5	10876.4
60°	9426.2	9828.5	10336.6	11744.4	12305.5	13072.9	15089.4	16709.0	16581.9	14533.7	11336.9
62.5°	7335.6	7854.3	8870.5	10468.9	11749.7	13215.8	15698.1	17645.8	17587.5	15375.2	11749.7
65°	5112.7	5573.2	6996.9	8902.3	10865.9	13152.3	16185.0	18482.0	18429.1	16063.3	12040.8
67.5°	2985.1	3519.6	5128.6	7166.3	9304.5	12713.0	16343.8	18974.2	18974.2	16481.4	12120.2
70°	1704.2	1953.0	3382.0	5223.9	7134.5	11501.0	15899.2	18968.9	19058.9	16386.1	11792.1
72.5°	1190.9	1302.0	2275.8	3514.3	4837.5	9304.5	14734.8	18053.3	18175.0	15486.4	10670.0
75°	926.2	1005.6	1603.7	2397.6	3048.6	6319.4	12189.0	15221.7	15544.6	13199.9	8627.1
77.5°	703.9	762.1	936.8	1497.8	1953.0	3630.8	8044.9	9982.0	10003.1	8081.9	4625.8
80°	513.4	571.6	624.5	915.6	1037.4	1698.9	3038.0	4170.6	4054.2	3911.3	2503.4
82.5°	307.0	365.2	381.1	497.5	508.1	725.1	1063.8	1344.3	1291.4	1720.1	1175.0
85°	132.3	185.2	195.8	227.6	217.0	296.4	423.4	354.6	317.6	365.2	254.0
87.5°	31.8	52.9	52.9	58.2	47.6	74.1	79.4	58.2	52.9	63.5	63.5
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°	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2	6478.2
2.5°	6441.2	6425.3	6430.6	6340.6	6314.2	6287.7	6271.8	6261.2	6250.6	6266.5	6282.4
5°	6488.8	6451.8	6409.4	6277.1	6224.2	6166.0	6123.6	6086.6	6070.7	6070.7	6086.6
7.5°	6525.9	6462.4	6372.4	6197.7	6102.5	6023.1	5954.3	5906.6	5880.2	5880.2	5896.0
10°	6531.2	6441.2	6298.3	6086.6	5959.5	5843.1	5763.7	5710.8	5673.7	5673.7	5684.3
12.5°	6562.9	6441.2	6255.9	6001.9	5843.1	5700.2	5604.9	5525.5	5509.7	5509.7	5520.3
15°	6615.8	6467.6	6229.5	5927.8	5737.3	5573.2	5467.3	5382.6	5350.9	5372.1	5377.4
17.5°	6663.5	6483.5	6181.8	5832.5	5604.9	5425.0	5308.5	5234.5	5192.1	5239.7	5239.7
20°	6695.2	6483.5	6113.0	5710.8	5462.0	5260.9	5149.8	5059.8	5028.0	5086.3	5091.6
22.5°	6742.9	6478.2	6038.9	5589.1	5308.5	5096.8	4985.7	4916.9	4901.0	4964.5	4985.7
25°	6795.8	6488.8	5959.5	5451.5	5139.2	4932.8	4848.1	4816.3	4826.9	4906.3	4932.8
27.5°	6854.0	6510.0	5880.2	5298.0	4953.9	4768.7	4721.1	4736.9	4779.3	4879.8	4911.6
30°	6906.9	6515.3	5769.0	5118.0	4742.2	4567.6	4588.7	4657.6	4721.1	4821.6	4858.7
32.5°	6975.7	6520.6	5652.6	4922.2	4514.6	4387.6	4482.9	4594.0	4657.6	4752.8	4795.2
35°	7145.1	6610.5	5562.6	4731.6	4302.9	4234.1	4392.9	4535.8	4572.9	4657.6	4694.6
37.5°	7340.9	6758.7	5515.0	4535.8	4096.5	4080.6	4281.8	4424.7	4435.3	4488.2	4525.2
40°	7462.7	6822.3	5462.0	4371.7	3911.3	3921.9	4128.3	4239.4	4218.3	4255.3	4281.8
42.5°	7584.4	6843.4	5350.9	4234.1	3736.6	3747.2	3906.0	3985.4	3996.0	4075.4	4112.4
45°	7790.8	6901.6	5229.2	4107.1	3577.8	3540.8	3636.1	3741.9	3879.5	4033.0	4075.4
47.5°	8066.0	7023.4	5102.1	3953.6	3424.4	3302.6	3339.7	3524.9	3667.8	3810.7	3837.2
50°	8346.5	7145.1	4985.7	3768.4	3270.9	3048.6	3064.5	3233.8	3350.3	3461.4	3477.3
52.5°	8621.8	7251.0	4885.1	3593.7	3096.2	2746.9	2810.4	2985.1	3064.5	3117.4	3133.3
55°	8897.0	7340.9	4795.2	3445.5	2895.1	2508.7	2566.9	2731.0	2810.4	2836.9	2847.5
57.5°	9182.8	7446.8	4726.4	3318.5	2667.5	2297.0	2334.1	2450.5	2524.6	2556.4	2545.8
60°	9421.0	7536.8	4689.3	3186.2	2439.9	2101.2	2090.6	2196.5	2302.3	2334.1	2323.5
62.5°	9606.2	7595.0	4631.1	3016.8	2238.8	1905.4	1852.4	1990.0	2101.2	2122.4	2138.2
65°	9706.8	7600.3	4488.2	2799.8	2032.4	1693.7	1656.6	1794.2	1863.0	1884.2	1884.2
67.5°	9690.9	7515.6	4207.7	2508.7	1841.8	1503.1	1471.4	1556.0	1656.6	1672.5	1656.6
70°	9362.7	7166.3	3757.8	2201.8	1614.3	1333.8	1275.5	1360.2	1455.5	1397.3	1370.8
72.5°	8431.2	6261.2	3096.2	1863.0	1360.2	1122.0	1095.6	1180.3	1185.6	1196.1	1169.7
75°	6652.9	4662.8	2318.2	1450.2	1100.9	942.1	936.8	920.9	942.1	984.4	952.7
77.5°	3493.2	2328.8	1254.4	889.2	799.2	756.9	719.8	714.5	778.0	804.5	772.7
80°	1894.8	1307.3	719.8	534.6	486.9	492.2	539.9	529.3	598.1	613.9	587.5
82.5°	825.7	619.2	354.6	322.9	322.9	317.6	333.4	370.5	444.6	444.6	354.6
85°	180.0	153.5	137.6	158.8	180.0	180.0	180.0	180.0	127.0	68.8	47.6
87.5°	58.2	58.2	58.2	63.5	68.8	68.8	58.2	42.3	26.5	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)