

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: P265626

Luminaire Tested: **ARCH-L-AF72-150-D-U-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T2R-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17531.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G3

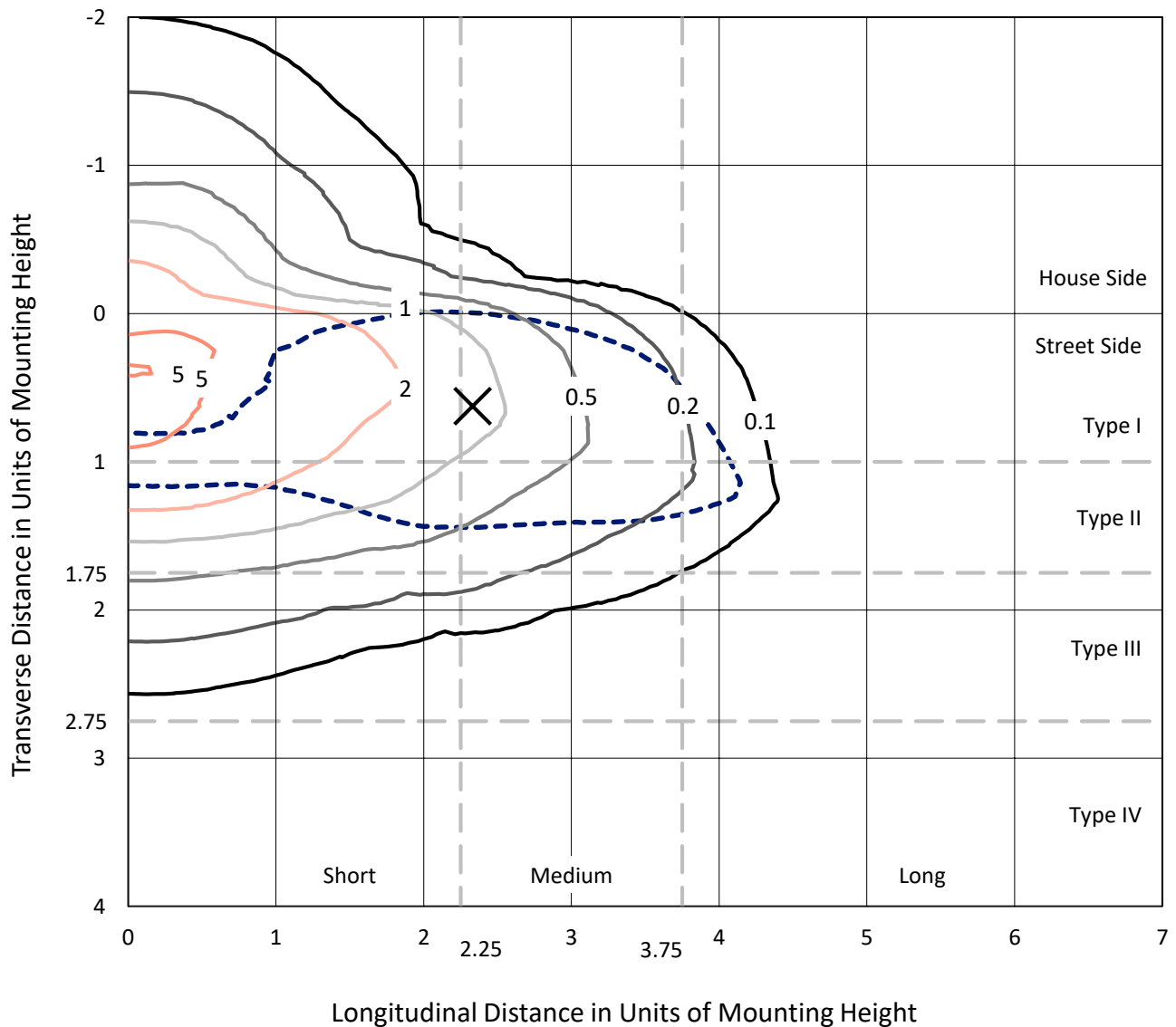
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

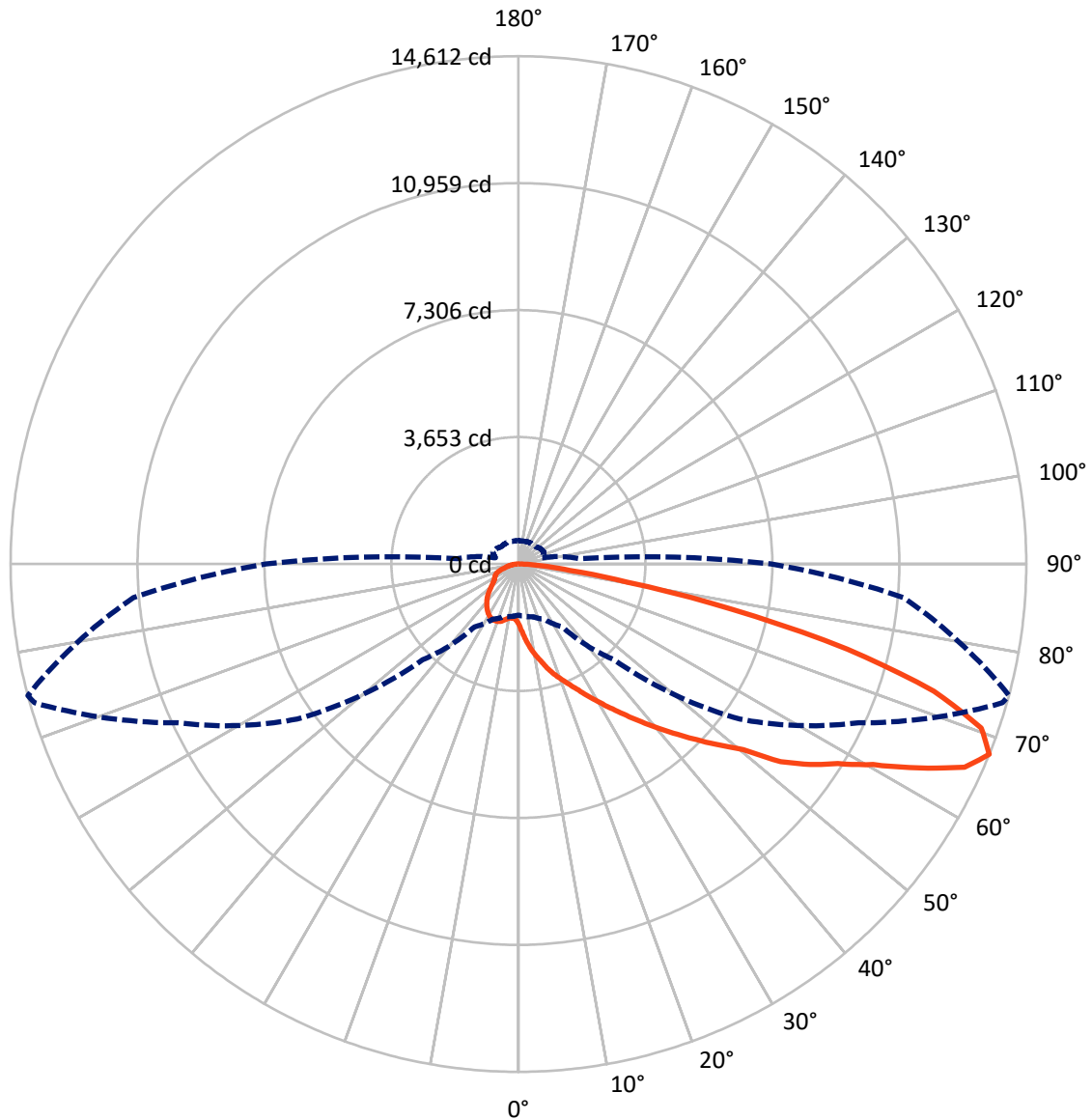


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2993.7	0.0	2993.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14537.5	0.0	14537.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	17531.2	0.0	17531.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	1.2
10°-20°	737.5	4.2
20°-30°	1345.2	7.7
30°-40°	2208.0	12.6
40°-50°	3193.1	18.2
50°-60°	3763.1	21.5
60°-70°	3656.8	20.9
70°-80°	2032.7	11.6
80°-90°	390.8	2.2
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°	17531.2	100.0
0°-180°	17531.2	100.0



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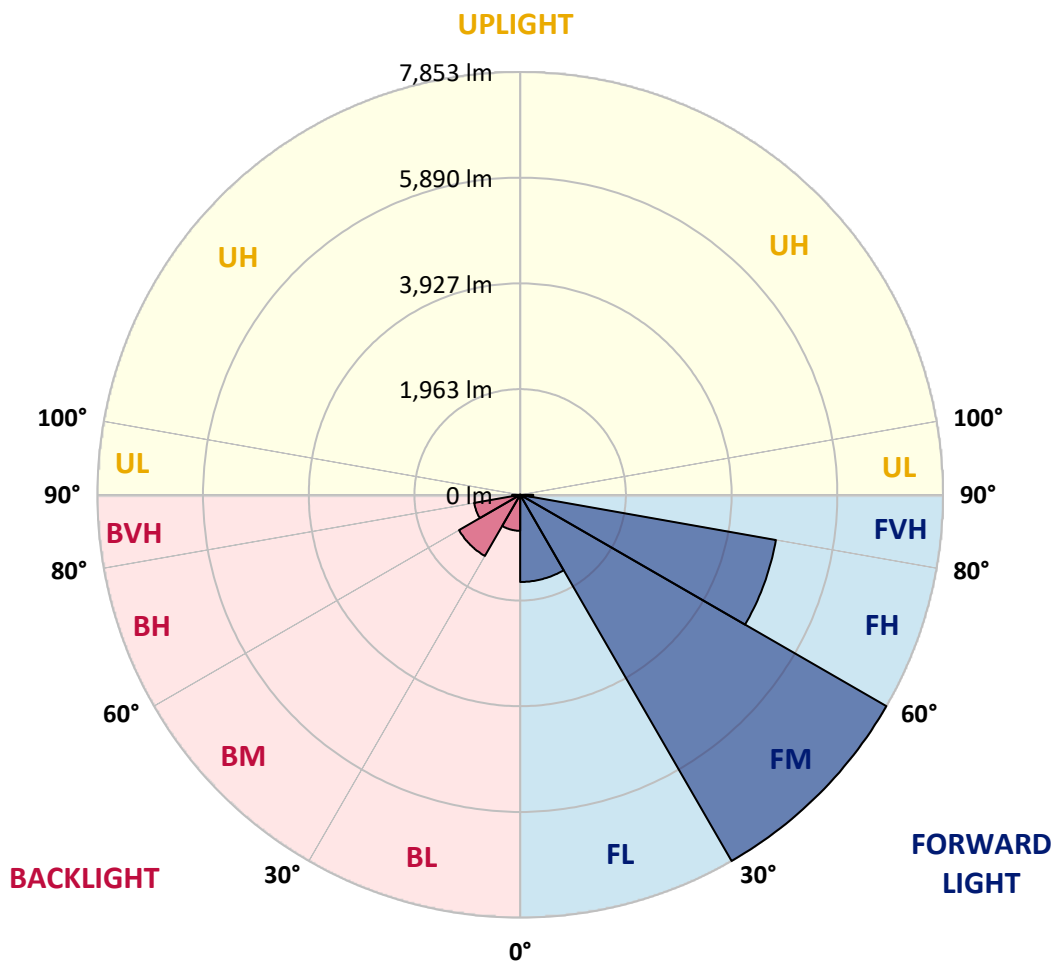
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.6	9.2			
FM (30°-60°)	7853.1	44.8			
FH (60°-80°)	4822.6	27.5			G2/5000
FVH (80°-90°)	243.2	1.4			G3/500
BL (0°-30°)	668.2	3.8	B2/1000		
BM (30°-60°)	1311.1	7.5	B2/2500		
BH (60°-80°)	866.8	4.9	B2/1000		G2/1000
BVH (80°-90°)	147.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1
2.5°	2462.9	2470.2	2455.4	2422.5	2374.8	2286.9	2209.9	2074.4	1953.5	1938.7	1810.4
5°	2895.2	2902.7	2884.3	2843.9	2792.7	2697.4	2591.2	2415.3	2220.9	2184.3	1913.1
7.5°	3192.1	3195.8	3173.8	3133.5	3093.3	2998.0	2891.6	2693.7	2455.4	2426.2	2045.0
10°	3445.0	3452.4	3423.0	3397.4	3353.5	3258.2	3148.2	2939.3	2693.7	2653.5	2180.6
12.5°	3679.5	3687.0	3668.6	3646.6	3631.9	3544.0	3423.0	3173.8	2910.0	2866.0	2341.9
15°	3837.2	3844.4	3848.2	3877.4	3895.8	3833.4	3712.5	3441.3	3144.4	3104.3	2532.4
17.5°	3793.3	3811.5	3866.5	3972.8	4086.4	4090.1	3991.1	3705.1	3375.4	3331.5	2726.6
20°	3664.9	3679.5	3745.6	3906.8	4130.3	4258.7	4251.3	3972.8	3591.7	3544.0	2906.2
22.5°	3771.3	3789.5	3789.5	3888.5	4108.4	4346.5	4441.8	4236.6	3807.8	3763.9	3085.9
25°	4225.6	4236.6	4159.7	4119.4	4199.9	4419.9	4599.5	4522.4	4071.7	4020.5	3280.2
27.5°	4859.7	4841.3	4746.0	4584.8	4496.8	4555.5	4738.7	4793.7	4376.0	4313.7	3481.7
30°	5490.0	5479.0	5369.1	5152.9	4955.1	4830.4	4892.7	5035.5	4705.7	4632.5	3676.0
32.5°	6080.1	6061.9	5940.9	5688.0	5464.4	5233.5	5112.6	5255.5	5057.5	4973.2	3892.1
35°	6622.6	6574.9	6454.0	6190.0	5959.1	5739.4	5442.4	5464.4	5438.8	5350.8	4130.3
37.5°	7062.4	7025.6	6893.8	6648.1	6402.6	6193.8	5882.2	5702.6	5849.3	5765.0	4405.3
40°	7450.8	7410.5	7274.8	7029.2	6802.1	6604.2	6358.7	5992.1	6311.0	6215.7	4713.0
42.5°	7744.0	7714.6	7604.7	7362.8	7143.0	6963.3	6842.4	6358.7	6791.0	6699.5	5050.2
45°	7901.6	7872.2	7813.5	7619.3	7417.8	7278.5	7289.6	6794.8	7293.2	7216.3	5449.7
47.5°	7707.3	7729.3	7780.6	7744.0	7619.3	7553.4	7689.0	7245.5	7853.9	7780.6	5882.2
50°	7186.9	7208.9	7414.2	7667.0	7711.1	7791.5	8048.2	7765.9	8447.7	8389.0	6417.3
52.5°	5907.9	6028.7	6596.9	7201.5	7615.7	7949.2	8447.7	8539.3	9448.2	9448.2	7362.8
55°	4463.9	4570.1	5218.9	6274.3	7245.5	7963.8	8740.9	9063.4	10170.2	10184.9	7857.6
57.5°	3617.2	3683.2	4002.0	5083.2	6468.5	7780.6	9089.1	9514.0	10771.1	10837.2	8495.4
60°	2935.7	2972.2	3181.2	3932.5	5394.9	7285.9	9338.2	10159.1	11628.7	11720.5	9308.9
62.5°	2360.1	2396.9	2536.2	2987.0	4233.1	6358.7	9294.3	10829.8	12772.2	12922.5	10375.5
65°	1883.7	1924.1	2015.6	2294.2	3137.2	5207.8	8843.5	11174.3	13956.0	14102.6	11082.7
67.5°	1469.6	1506.3	1568.6	1751.9	2209.9	3895.8	7776.9	10811.6	14487.4	14612.0	11119.4
70°	1110.5	1128.8	1180.2	1297.4	1579.6	2587.5	6087.5	9594.7	14011.0	14124.6	10386.5
72.5°	861.2	857.6	886.8	945.6	1103.2	1781.2	4035.0	7802.6	12387.4	12504.6	8861.8
75°	703.6	700.0	718.4	736.6	799.0	1194.7	2382.1	5874.8	9997.9	9774.4	6648.1
77.5°	593.7	590.0	608.4	612.0	637.6	824.6	1356.0	3866.5	6670.2	6285.4	3745.6
80°	502.2	498.4	520.4	527.8	546.1	604.6	780.6	2092.7	3349.7	3173.8	1788.4
82.5°	377.5	392.1	432.4	450.8	472.8	447.1	483.7	923.5	1553.9	1484.3	776.9
85°	183.3	216.2	326.2	362.8	388.4	282.2	329.9	436.1	700.0	667.0	315.1
87.5°	62.3	54.9	194.3	230.9	253.0	128.3	183.3	241.9	289.6	263.9	99.0
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°	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1	1737.1
2.5°	1755.5	1700.5	1620.0	1557.7	1517.2	1484.3	1469.6	1465.9	1458.7	1455.0	1455.0
5°	1792.2	1693.1	1568.6	1502.7	1484.3	1469.6	1477.0	1480.6	1480.6	1480.6	1480.6
7.5°	1847.2	1707.9	1557.7	1513.6	1510.0	1510.0	1531.9	1542.8	1550.2	1550.2	1550.2
10°	1920.4	1733.5	1575.9	1539.2	1550.2	1557.7	1583.3	1597.9	1605.2	1609.0	1612.5
12.5°	2019.4	1788.4	1612.5	1583.3	1597.9	1601.6	1620.0	1627.2	1634.6	1638.1	1638.1
15°	2151.4	1869.2	1671.1	1634.6	1638.1	1634.6	1634.6	1627.2	1623.5	1623.5	1631.0
17.5°	2286.9	1946.1	1722.5	1671.1	1656.6	1627.2	1605.2	1586.9	1575.9	1568.6	1572.3
20°	2422.5	2015.6	1751.9	1678.6	1638.1	1590.5	1550.2	1524.7	1510.0	1495.3	1502.7
22.5°	2558.2	2081.7	1762.8	1656.6	1597.9	1528.2	1484.3	1443.9	1411.0	1389.0	1392.6
25°	2708.4	2154.9	1762.8	1631.0	1542.8	1469.6	1414.7	1348.6	1301.0	1282.7	1290.1
27.5°	2858.6	2217.2	1744.5	1583.3	1480.6	1407.4	1326.6	1249.7	1220.3	1209.4	1213.2
30°	3009.0	2264.9	1704.2	1524.7	1414.7	1334.1	1227.8	1176.4	1139.8	1110.5	1114.2
32.5°	3159.2	2298.0	1649.2	1451.3	1345.0	1242.4	1154.4	1095.8	1029.8	993.2	996.8
35°	3331.5	2323.6	1583.3	1378.0	1268.0	1161.8	1095.8	1000.5	931.0	901.5	894.3
37.5°	3510.9	2341.9	1513.6	1297.4	1191.2	1103.2	1037.2	920.0	853.8	813.7	809.9
40°	3705.1	2349.2	1429.4	1213.2	1117.9	1066.5	960.2	872.3	758.7	732.9	732.9
42.5°	3936.2	2345.6	1345.0	1128.8	1037.2	982.1	905.2	864.9	766.0	740.4	725.7
45°	4199.9	2345.6	1253.5	1029.8	956.5	875.8	842.9	817.3	751.3	762.3	769.7
47.5°	4500.5	2338.2	1143.5	949.1	890.6	821.0	802.6	747.7	722.0	729.3	736.6
50°	4914.6	2349.2	1044.5	883.3	842.9	784.3	762.3	732.9	722.0	725.7	722.0
52.5°	5490.0	2312.5	949.1	842.9	806.3	729.3	729.3	725.7	729.3	725.7	725.7
55°	5805.2	2231.8	879.6	821.0	780.6	703.6	718.4	725.7	732.9	729.3	729.3
57.5°	6252.4	2177.0	824.6	806.3	766.0	696.4	711.0	725.7	729.3	725.7	725.7
60°	6780.0	2140.3	788.0	809.9	754.9	696.4	714.6	725.7	722.0	718.4	718.4
62.5°	7392.2	2125.7	762.3	821.0	743.9	700.0	714.6	725.7	711.0	707.3	707.3
65°	7623.0	1993.7	729.3	828.2	751.3	700.0	711.0	714.6	696.4	692.7	689.0
67.5°	7267.6	1766.4	681.6	813.7	773.4	700.0	700.0	696.4	674.4	670.7	663.4
70°	6472.3	1465.9	608.4	766.0	788.0	703.6	685.3	667.0	645.1	645.1	630.4
72.5°	5299.6	1154.4	513.1	681.6	776.9	714.6	656.0	630.4	604.6	604.6	590.0
75°	3818.9	861.2	410.4	568.1	729.3	711.0	619.4	586.5	557.0	553.4	535.1
77.5°	2177.0	604.6	333.5	443.5	648.7	692.7	586.5	535.1	502.2	491.2	480.1
80°	1117.9	406.8	271.2	348.2	538.8	641.4	560.7	476.5	439.8	421.5	403.1
82.5°	531.3	271.2	208.9	256.6	406.8	560.7	527.8	410.4	370.1	348.2	326.2
85°	238.2	161.2	139.2	164.8	289.6	436.1	465.4	337.1	289.6	362.8	267.5
87.5°	77.0	73.3	73.3	77.0	139.2	190.6	340.8	249.2	230.9	190.6	161.2
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)