

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: P265725

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265725
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-AF72-260-D-U-T2R-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25290.8 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

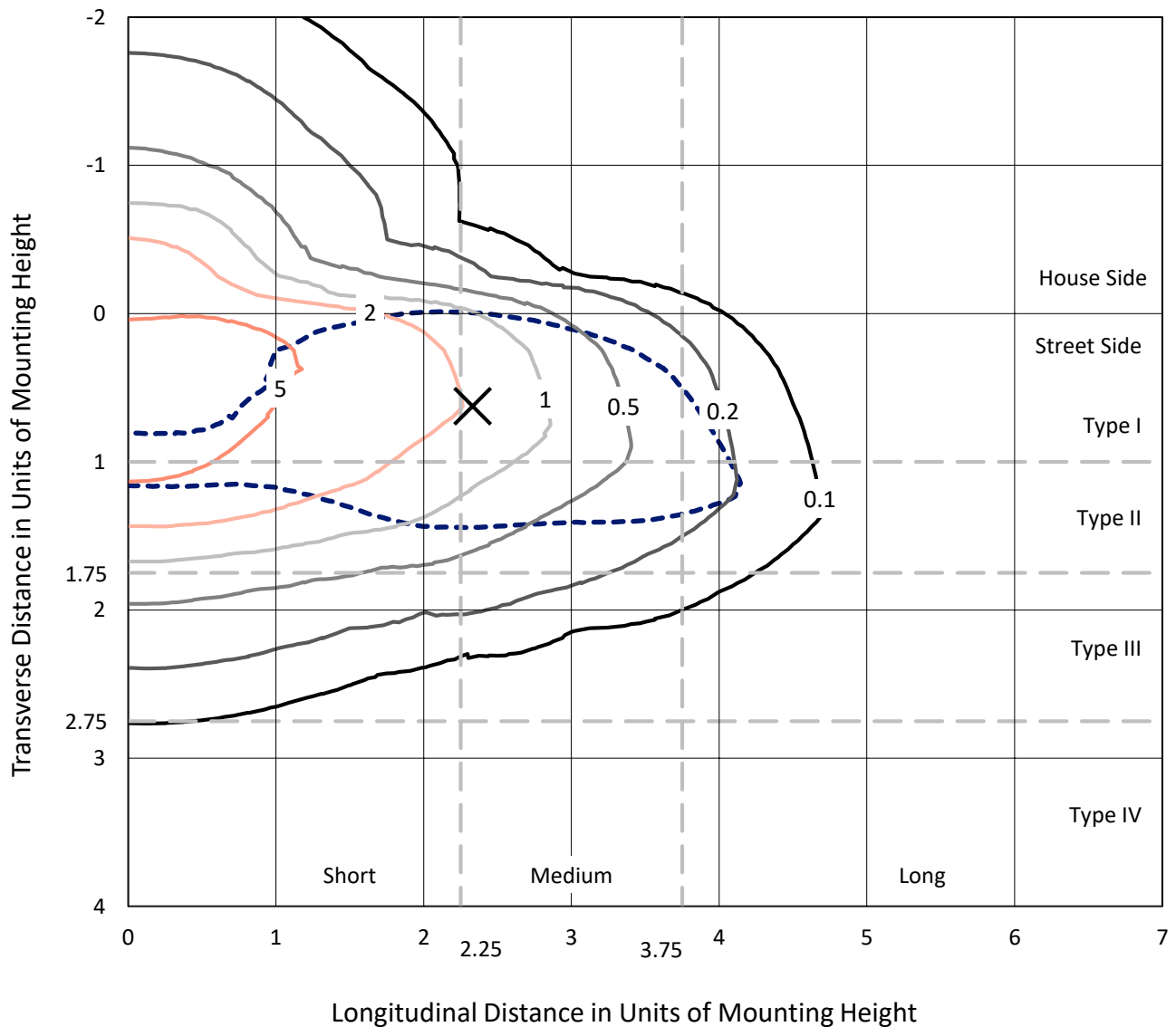
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

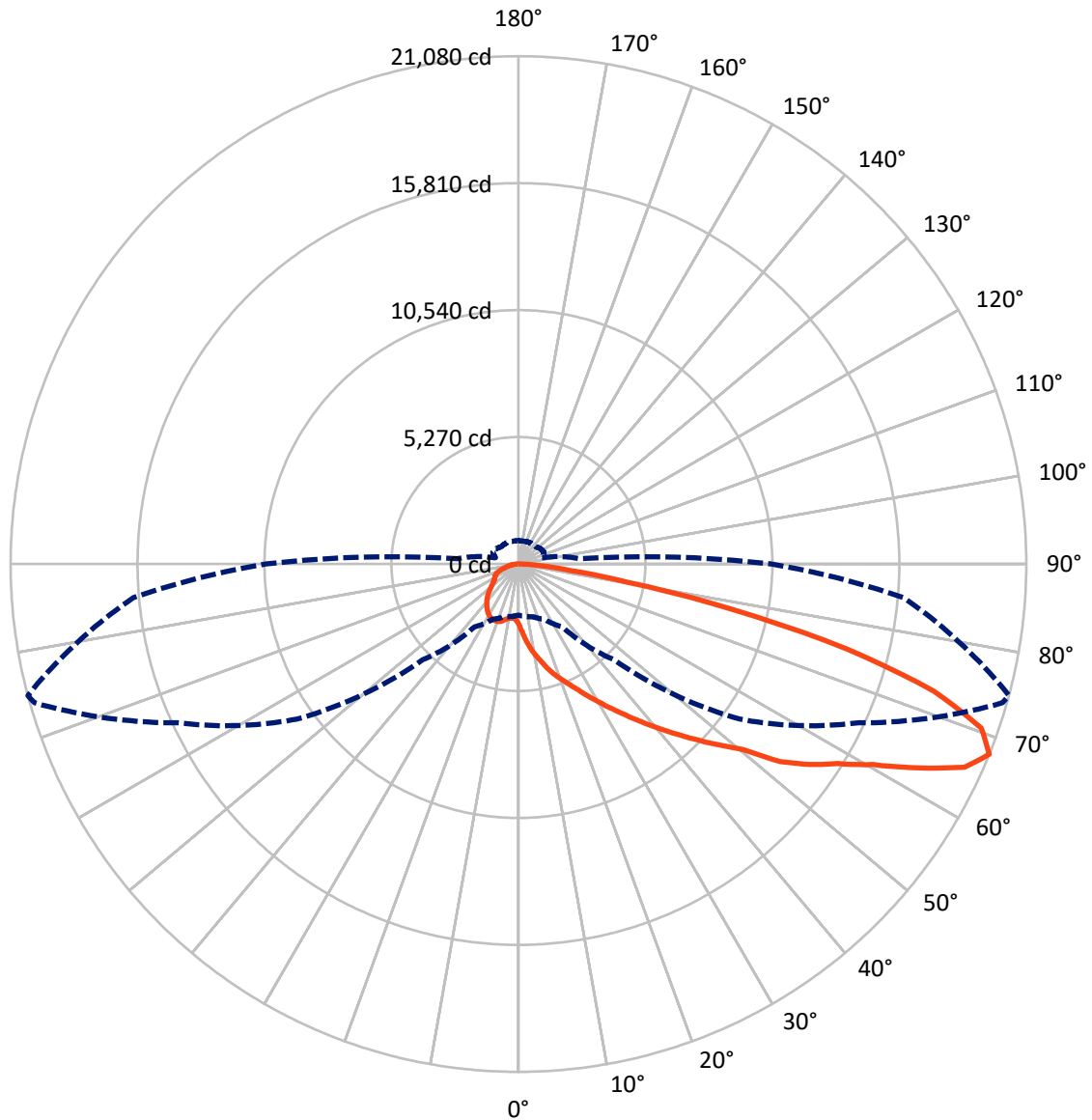
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	4318.8	0.0	4318.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20972.1	0.0	20972.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	25290.8	0.0	25290.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	1.2
10°-20°	1064.0	4.2
20°-30°	1940.6	7.7
30°-40°	3185.3	12.6
40°-50°	4606.4	18.2
50°-60°	5428.7	21.5
60°-70°	5275.3	20.9
70°-80°	2932.4	11.6
80°-90°	563.9	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°	25290.8	100.0
0°-180°	25290.8	100.0

Coefficient of Utilization



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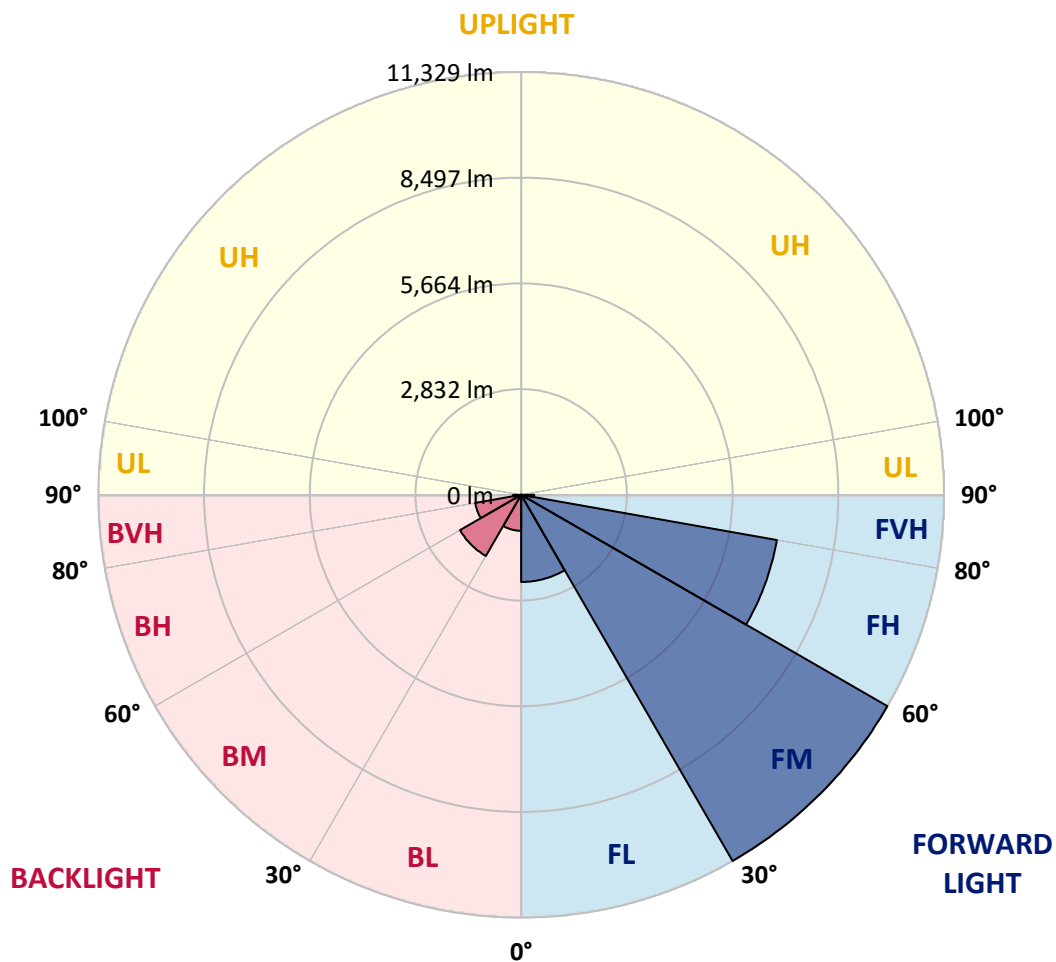
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2335.0	9.2			
FM (30°-60°)	11328.9	44.8			
FH (60°-80°)	6957.2	27.5			G3/7500
FVH (80°-90°)	350.9	1.4			G3/500
BL (0°-30°)	964.0	3.8	B2/1000		
BM (30°-60°)	1891.4	7.5	B2/2500		
BH (60°-80°)	1250.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	212.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1
2.5°	3552.8	3563.4	3542.3	3494.8	3426.0	3299.1	3188.2	2992.4	2818.1	2796.9	2611.8
5°	4176.8	4187.4	4160.9	4102.7	4028.8	3891.3	3737.9	3484.2	3204.0	3151.1	2759.9
7.5°	4605.0	4610.3	4578.7	4520.5	4462.3	4324.8	4171.5	3886.0	3542.3	3500.1	2950.2
10°	4969.9	4980.5	4938.2	4901.2	4837.6	4700.2	4541.7	4240.2	3886.0	3827.9	3145.9
12.5°	5308.3	5318.8	5292.4	5260.7	5239.5	5112.7	4938.2	4578.7	4197.9	4134.4	3378.4
15°	5535.5	5546.1	5551.4	5593.7	5620.2	5530.2	5355.9	4964.6	4536.4	4478.1	3653.3
17.5°	5472.1	5498.5	5577.8	5731.1	5895.0	5900.3	5757.6	5345.3	4869.4	4805.9	3933.6
20°	5287.1	5308.3	5403.3	5636.1	5958.5	6143.6	6133.0	5731.1	5181.3	5112.7	4192.7
22.5°	5440.3	5466.8	5466.8	5609.6	5926.7	6270.4	6407.9	6111.9	5493.2	5429.9	4451.7
25°	6096.0	6111.9	6000.8	5942.6	6059.0	6376.2	6635.3	6524.2	5873.9	5799.8	4731.9
27.5°	7010.6	6984.2	6846.7	6614.1	6487.2	6571.8	6836.2	6915.5	6312.7	6222.9	5022.8
30°	7920.0	7904.1	7745.5	7433.7	7148.2	6968.3	7058.3	7264.5	6788.6	6682.9	5303.0
32.5°	8771.2	8744.8	8570.3	8205.6	7883.0	7550.0	7375.4	7581.6	7296.2	7174.6	5614.9
35°	9553.7	9485.1	9310.6	8930.0	8596.8	8279.6	7851.2	7883.0	7846.1	7719.1	5958.5
37.5°	10188.1	10135.2	9945.0	9590.8	9236.6	8935.1	8485.7	8226.7	8438.1	8316.6	6355.1
40°	10748.6	10690.5	10494.9	10140.5	9812.8	9527.3	9173.0	8644.4	9104.3	8966.9	6799.2
42.5°	11171.6	11129.3	10970.7	10621.6	10304.5	10045.4	9870.9	9173.0	9796.9	9664.8	7285.6
45°	11399.0	11356.6	11272.0	10991.8	10701.0	10500.1	10516.0	9802.2	10521.3	10410.3	7861.8
47.5°	11118.7	11150.4	11224.4	11171.6	10991.8	10896.7	11092.4	10452.6	11330.2	11224.4	8485.7
50°	10368.0	10399.7	10695.8	11060.6	11124.0	11240.3	11610.5	11203.3	12186.6	12102.1	9257.7
52.5°	8522.8	8697.2	9516.7	10389.1	10986.5	11467.7	12186.6	12318.8	13630.1	13630.1	10621.6
55°	6439.7	6593.0	7528.8	9051.4	10452.6	11488.9	12609.7	13074.9	14671.6	14692.8	11335.5
57.5°	5218.3	5313.6	5773.4	7333.1	9331.8	11224.4	13111.9	13725.3	15538.7	15633.8	12255.4
60°	4234.9	4287.8	4589.3	5673.1	7782.6	10510.7	13471.4	14655.8	16775.8	16908.1	13429.1
62.5°	3404.8	3457.8	3658.6	4309.0	6106.6	9173.0	13408.0	15623.3	18425.5	18642.3	14967.6
65°	2717.6	2775.8	2908.0	3309.7	4525.8	7513.0	12757.6	16120.3	20133.2	20344.6	15988.2
67.5°	2120.1	2173.0	2262.9	2527.2	3188.2	5620.2	11219.1	15596.8	20899.7	21079.5	16040.9
70°	1601.9	1628.4	1702.5	1871.6	2278.7	3732.6	8781.8	13841.5	20212.5	20376.3	14983.5
72.5°	1242.4	1237.1	1279.5	1364.0	1591.3	2569.5	5821.0	11256.2	17870.3	18039.6	12784.0
75°	1015.2	1009.9	1036.3	1062.8	1152.5	1723.6	3436.6	8475.1	14423.1	14100.7	9590.8
77.5°	856.5	851.2	877.6	882.9	920.0	1189.5	1956.1	5577.8	9622.5	9067.3	5403.3
80°	724.4	719.1	750.8	761.4	787.8	872.3	1126.1	3018.9	4832.4	4578.7	2580.1
82.5°	544.6	565.8	623.9	650.4	682.1	645.1	698.0	1332.4	2241.7	2141.3	1120.8
85°	264.3	311.9	470.5	523.4	560.5	407.1	475.8	629.2	1009.9	962.3	454.7
87.5°	89.9	79.3	280.2	333.1	364.8	185.1	264.3	348.9	417.7	380.7	142.7
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°	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1
2.5°	2532.5	2453.2	2336.9	2247.0	2188.8	2141.3	2120.1	2114.8	2104.3	2099.0	2099.0
5°	2585.4	2442.6	2262.9	2167.7	2141.3	2120.1	2130.7	2136.0	2136.0	2136.0	2136.0
7.5°	2664.7	2463.8	2247.0	2183.6	2178.3	2178.3	2210.0	2225.9	2236.4	2236.4	2236.4
10°	2770.5	2500.8	2273.4	2220.6	2236.4	2247.0	2284.0	2305.2	2315.7	2321.0	2326.3
12.5°	2913.2	2580.1	2326.3	2284.0	2305.2	2310.4	2336.9	2347.5	2358.1	2363.4	2363.4
15°	3103.6	2696.4	2411.0	2358.1	2363.4	2358.1	2358.1	2347.5	2342.2	2342.2	2352.8
17.5°	3299.1	2807.5	2484.9	2411.0	2389.8	2347.5	2315.7	2289.3	2273.4	2262.9	2268.1
20°	3494.8	2908.0	2527.2	2421.6	2363.4	2294.6	2236.4	2199.4	2178.3	2157.1	2167.7
22.5°	3690.3	3003.0	2543.1	2389.8	2305.2	2204.7	2141.3	2083.1	2035.5	2003.8	2009.1
25°	3907.2	3108.9	2543.1	2352.8	2225.9	2120.1	2040.8	1945.6	1876.9	1850.5	1861.1
27.5°	4123.8	3198.7	2516.6	2284.0	2136.0	2030.2	1913.8	1802.9	1760.6	1744.8	1750.0
30°	4340.7	3267.4	2458.5	2199.4	2040.8	1924.4	1771.2	1697.2	1644.3	1601.9	1607.2
32.5°	4557.5	3314.9	2379.3	2093.7	1940.3	1792.3	1665.5	1580.8	1485.6	1432.7	1438.0
35°	4805.9	3351.9	2284.0	1987.9	1829.3	1676.0	1580.8	1443.3	1343.0	1300.7	1290.1
37.5°	5065.1	3378.4	2183.6	1871.6	1718.3	1591.3	1496.2	1327.1	1231.8	1173.7	1168.4
40°	5345.3	3389.0	2062.0	1750.0	1612.5	1538.5	1385.1	1258.3	1094.5	1057.5	1057.5
42.5°	5678.4	3383.7	1940.3	1628.4	1496.2	1416.9	1305.9	1247.7	1104.9	1067.9	1046.9
45°	6059.0	3383.7	1808.2	1485.6	1379.9	1263.6	1216.0	1179.0	1083.8	1099.7	1110.2
47.5°	6492.5	3373.1	1649.6	1369.3	1284.8	1184.2	1157.8	1078.5	1041.6	1052.2	1062.8
50°	7090.0	3389.0	1506.7	1274.2	1216.0	1131.4	1099.7	1057.5	1041.6	1046.9	1041.6
52.5°	7920.0	3336.1	1369.3	1216.0	1163.1	1052.2	1052.2	1046.9	1052.2	1046.9	1046.9
55°	8374.7	3219.9	1268.9	1184.2	1126.1	1015.2	1036.3	1046.9	1057.5	1052.2	1052.2
57.5°	9019.7	3140.6	1189.5	1163.1	1104.9	1004.6	1025.7	1046.9	1052.2	1046.9	1046.9
60°	9781.0	3087.7	1136.7	1168.4	1089.1	1004.6	1031.0	1046.9	1041.6	1036.3	1036.3
62.5°	10664.0	3066.5	1099.7	1184.2	1073.3	1009.9	1031.0	1046.9	1025.7	1020.5	1020.5
65°	10997.1	2876.2	1052.2	1194.8	1083.8	1009.9	1025.7	1031.0	1004.6	999.3	994.0
67.5°	10484.3	2548.4	983.4	1173.7	1115.5	1009.9	1009.9	1004.6	972.9	967.6	957.0
70°	9337.0	2114.8	877.6	1104.9	1136.7	1015.2	988.7	962.3	930.6	930.6	909.4
72.5°	7645.1	1665.5	740.3	983.4	1120.8	1031.0	946.4	909.4	872.3	872.3	851.2
75°	5509.1	1242.4	592.2	819.6	1052.2	1025.7	893.5	845.9	803.7	798.4	772.0
77.5°	3140.6	872.3	481.1	639.8	935.9	999.3	845.9	772.0	724.4	708.5	692.7
80°	1612.5	586.9	391.2	502.2	777.3	925.3	809.0	687.4	634.5	608.1	581.7
82.5°	766.7	391.2	301.3	370.1	586.9	809.0	761.4	592.2	534.0	502.2	470.5
85°	343.6	232.7	201.0	238.0	417.7	629.2	671.5	486.4	417.7	523.4	385.9
87.5°	111.0	105.7	105.7	111.0	201.0	274.9	491.7	359.5	333.1	274.9	232.7
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)