

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: P265632

Luminaire Tested: **ARCH-L-AF72-150-D-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
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-T4W-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17337.9 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - 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

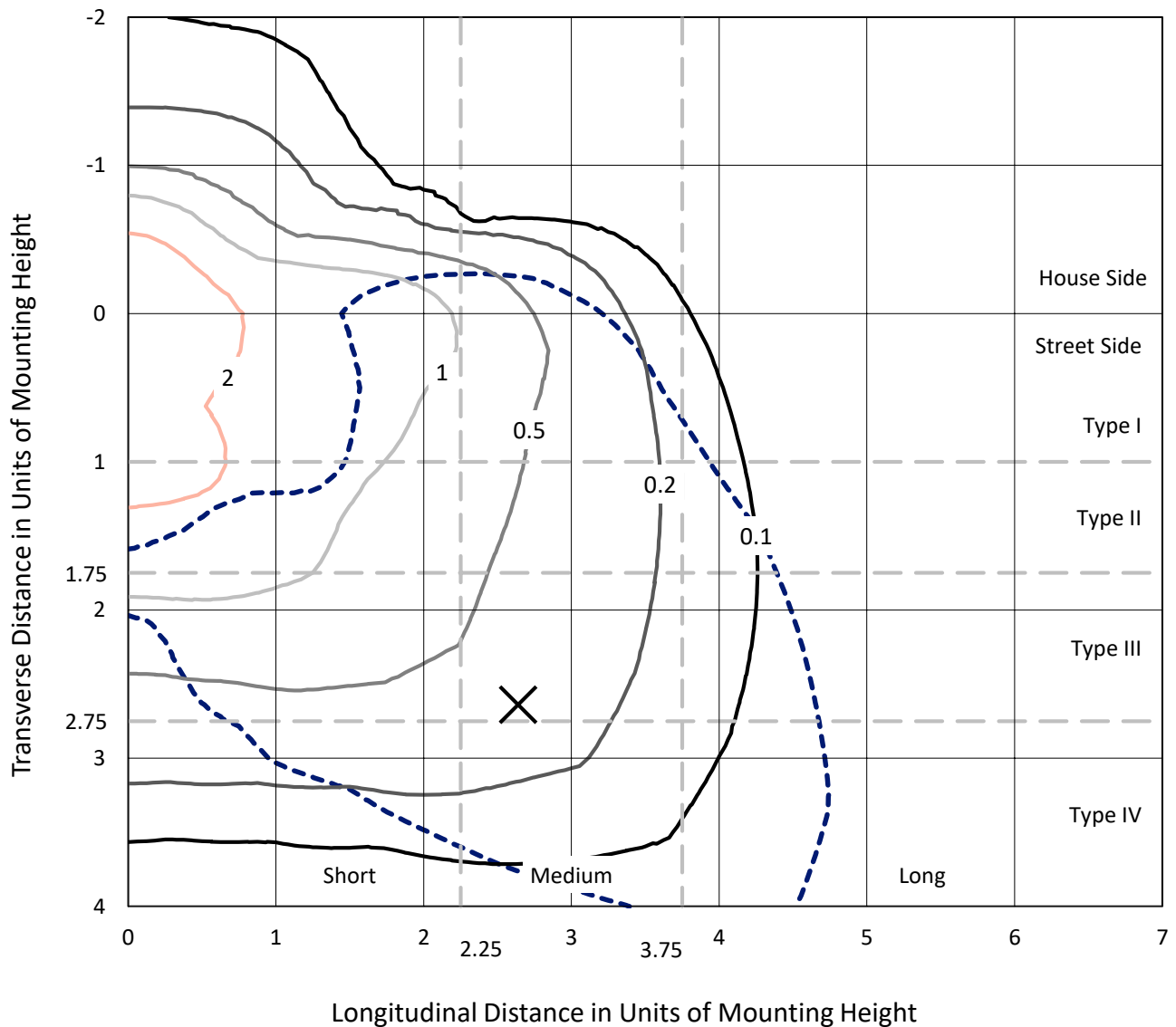


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

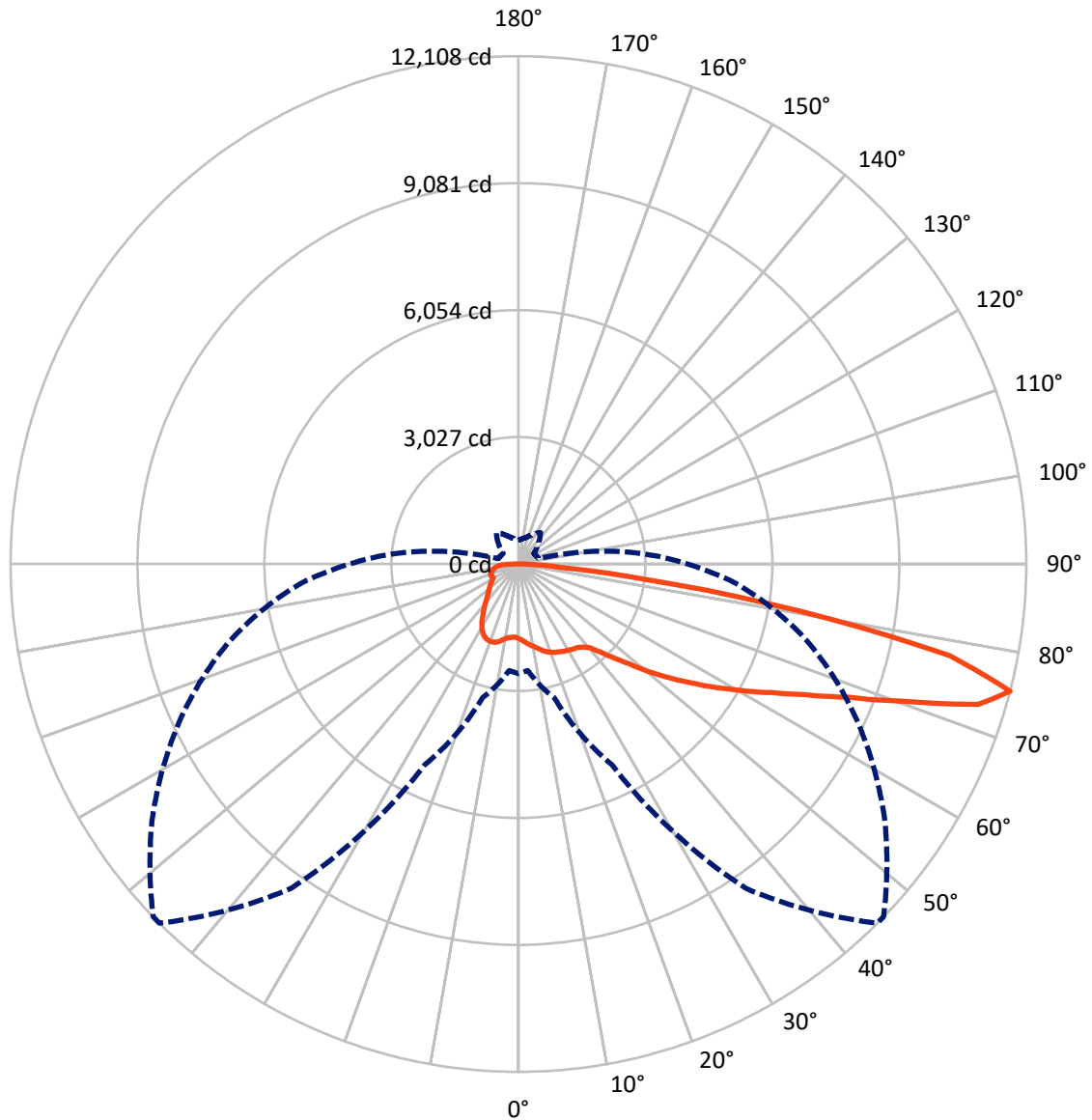


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4016.5	0.0	4016.5
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	13321.4	0.0	13321.4
	% Fixture	76.8	0.0	76.8
Total	Lumens	17337.9	0.0	17337.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.0
10°-20°	570.8	3.3
20°-30°	979.5	5.6
30°-40°	1369.9	7.9
40°-50°	2009.5	11.6
50°-60°	3130.3	18.1
60°-70°	4504.2	26.0
70°-80°	3923.7	22.6
80°-90°	673.8	3.9
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°	17337.9	100.0
0°-180°	17337.9	100.0



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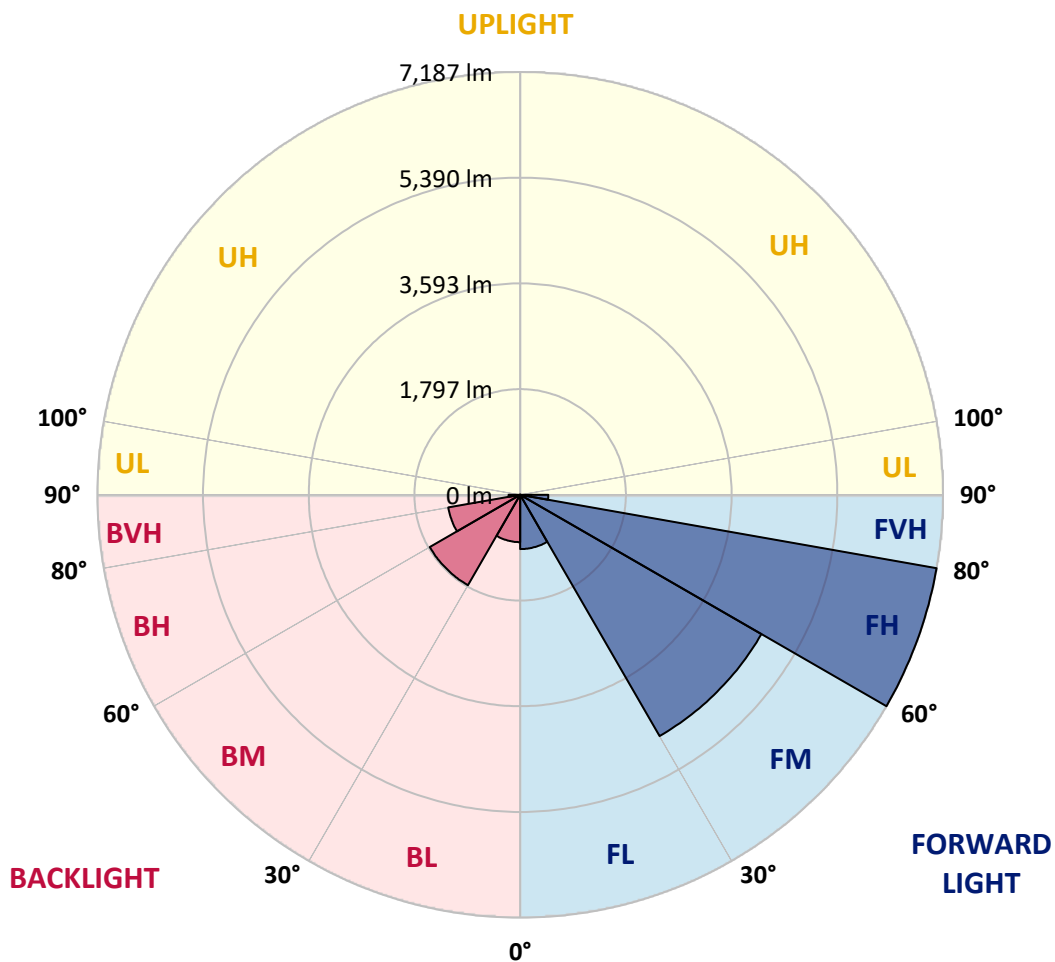
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.0	5.3			
FM	(30°-60°)	4734.6	27.3			
FH	(60°-80°)	7186.7	41.5			G3/7500
FVH	(80°-90°)	478.1	2.8			G3/500
BL	(0°-30°)	804.4	4.6	B2/1000		
BM	(30°-60°)	1775.1	10.2	B2/2500		
BH	(60°-80°)	1241.2	7.2	B3/2500		G3/2500
BVH	(80°-90°)	195.7	1.1			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3
2.5°	1865.2	1851.5	1851.5	1841.4	1841.4	1824.5	1817.8	1814.4	1797.6	1787.4	1777.3
5°	1972.9	1956.1	1952.7	1929.1	1919.0	1881.9	1878.5	1854.9	1824.5	1794.3	1770.6
7.5°	2070.9	2060.7	2043.9	2020.2	1989.8	1942.7	1939.4	1902.3	1851.5	1811.2	1777.3
10°	2141.6	2134.9	2111.2	2081.0	2047.1	1999.9	1996.7	1956.1	1895.5	1848.3	1801.0
12.5°	2225.9	2215.8	2185.4	2145.1	2108.0	2064.0	2060.7	2026.9	1959.6	1898.7	1838.1
15°	2306.8	2293.5	2256.4	2215.8	2175.3	2138.2	2138.2	2101.1	2030.3	1959.6	1888.6
17.5°	2347.4	2340.7	2303.6	2259.6	2225.9	2199.0	2195.5	2161.9	2091.1	2016.9	1939.4
20°	2360.8	2364.2	2330.6	2283.3	2259.6	2246.2	2242.8	2219.3	2141.6	2070.9	1996.7
22.5°	2357.5	2367.7	2340.7	2290.0	2283.3	2283.3	2283.3	2256.4	2195.5	2124.8	2050.7
25°	2370.9	2384.5	2364.2	2303.6	2303.6	2317.0	2317.0	2303.6	2249.5	2188.8	2114.6
27.5°	2418.1	2428.3	2411.4	2327.1	2330.6	2350.8	2347.4	2350.8	2317.0	2259.6	2185.4
30°	2475.5	2489.1	2468.7	2364.2	2360.8	2381.0	2381.0	2397.9	2374.3	2313.7	2252.9
32.5°	2630.6	2627.4	2563.3	2404.8	2394.6	2414.9	2414.9	2431.6	2418.1	2370.9	2313.7
35°	3092.8	3042.1	2900.4	2536.3	2435.0	2445.1	2445.1	2475.5	2482.2	2445.1	2394.6
37.5°	3564.8	3548.0	3440.1	2887.0	2583.4	2509.2	2505.8	2549.7	2580.0	2549.7	2516.1
40°	4040.3	4026.9	4003.2	3355.8	2893.7	2623.9	2613.8	2650.9	2704.8	2684.7	2664.5
42.5°	4482.3	4475.4	4499.2	3817.8	3288.3	2870.2	2839.7	2796.0	2873.5	2866.8	2866.8
45°	4829.6	4846.4	4860.0	4249.5	3716.6	3187.1	3150.0	3001.6	3106.2	3133.2	3153.4
47.5°	5025.2	5038.8	5085.9	4671.0	4145.0	3554.8	3527.7	3284.9	3423.3	3504.2	3561.5
50°	5305.1	5268.1	5308.5	5082.6	4660.9	4033.7	3959.5	3666.1	3841.4	3983.1	4118.0
52.5°	5575.1	5514.2	5548.0	5558.2	5247.8	4502.5	4425.0	4114.5	4333.9	4556.5	4796.0
55°	5817.9	5814.4	5848.1	6020.1	5814.4	5004.9	4917.3	4610.5	4927.5	5167.0	5571.6
57.5°	6013.4	6047.1	6195.5	6556.4	6468.8	5551.3	5453.5	5187.2	5561.4	5801.0	6472.1
60°	6242.7	6296.7	6543.0	7011.7	7065.7	6124.7	6023.6	5831.3	6212.4	6455.2	7514.2
62.5°	6320.4	6397.9	6903.7	7490.6	7689.6	6752.0	6660.9	6532.8	6897.0	7116.3	8553.0
65°	5804.3	5952.7	7102.8	7736.8	8360.7	7507.5	7429.9	7318.6	7578.3	7723.4	9257.9
67.5°	5662.6	5730.1	6714.9	8090.9	8991.5	8478.8	8401.2	8209.0	8215.7	8155.1	9487.2
70°	5463.8	5538.0	6316.9	8357.4	9895.3	9807.6	9713.3	9146.6	8799.2	8431.6	9035.3
72.5°	4654.2	4630.7	5443.4	7638.9	10330.4	11453.5	11342.2	10155.0	9231.0	8192.2	7625.5
75°	2613.8	2546.3	3301.8	5284.9	9433.2	12107.7	12104.4	10664.3	8927.4	7136.5	5190.4
77.5°	758.9	738.5	1089.4	2215.8	6350.7	10519.2	10647.4	9618.7	7450.2	5126.4	2849.9
80°	357.4	364.3	468.7	731.8	2711.7	6789.1	7156.7	6333.8	4451.9	2364.2	1177.0
82.5°	226.0	229.3	320.3	472.1	1146.6	3082.5	3386.2	2849.9	1763.9	1021.9	519.4
85°	141.7	141.7	212.4	310.3	684.7	984.8	1069.2	971.2	755.5	556.5	283.2
87.5°	77.6	77.6	128.2	178.8	374.4	317.0	327.2	387.9	472.1	340.6	141.7
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°	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3
2.5°	1774.1	1767.2	1757.2	1753.9	1750.3	1747.1	1750.3	1757.2	1750.3	1750.3	1753.9
5°	1763.9	1757.2	1743.7	1743.7	1747.1	1750.3	1767.2	1777.3	1780.7	1780.7	1780.7
7.5°	1763.9	1753.9	1743.7	1747.1	1753.9	1767.2	1794.3	1811.2	1824.5	1828.1	1828.1
10°	1780.7	1767.2	1760.5	1767.2	1787.4	1797.6	1824.5	1851.5	1868.5	1875.2	1875.2
12.5°	1811.2	1797.6	1797.6	1811.2	1838.1	1851.5	1875.2	1895.5	1915.6	1925.7	1925.7
15°	1861.6	1844.8	1848.3	1871.8	1902.3	1915.6	1932.6	1939.4	1956.1	1969.7	1969.7
17.5°	1908.9	1892.0	1898.7	1925.7	1946.0	1952.7	1962.8	1959.6	1966.2	1976.5	1979.8
20°	1962.8	1946.0	1949.4	1966.2	1969.7	1962.8	1962.8	1952.7	1949.4	1966.2	1972.9
22.5°	2016.9	1999.9	1996.7	1986.5	1969.7	1952.7	1942.7	1932.6	1925.7	1942.7	1949.4
25°	2081.0	2057.3	2040.4	1996.7	1952.7	1922.5	1908.9	1902.3	1898.7	1915.6	1922.5
27.5°	2151.7	2128.2	2077.5	1983.1	1912.3	1861.6	1851.5	1851.5	1858.4	1868.5	1875.2
30°	2219.3	2195.5	2104.5	1952.7	1841.4	1767.2	1757.2	1767.2	1784.2	1794.3	1804.3
32.5°	2286.6	2263.0	2121.3	1905.6	1737.0	1642.6	1635.8	1652.6	1679.7	1686.3	1693.0
35°	2377.8	2354.1	2141.6	1838.1	1605.5	1504.2	1497.5	1507.5	1531.3	1541.3	1551.5
37.5°	2505.8	2492.3	2172.0	1763.9	1484.0	1372.7	1352.4	1345.8	1359.1	1355.8	1369.2
40°	2674.6	2684.7	2225.9	1666.0	1366.0	1251.2	1207.4	1187.2	1173.6	1146.6	1160.3
42.5°	2920.7	2927.4	2286.6	1554.7	1264.8	1136.5	1079.3	1042.2	1015.2	971.2	978.1
45°	3281.6	3224.2	2357.5	1436.7	1173.6	1045.4	978.1	934.1	897.0	859.9	863.5
47.5°	3760.5	3585.1	2435.0	1339.0	1082.5	971.2	910.6	859.9	816.2	785.8	789.3
50°	4350.8	4033.7	2512.6	1247.8	991.5	913.9	859.9	806.0	762.2	731.8	728.4
52.5°	5129.9	4573.4	2563.3	1146.6	900.6	863.5	816.2	765.5	711.6	674.5	671.2
55°	5939.2	5200.6	2607.1	1025.2	812.7	806.0	782.5	725.1	661.1	613.8	607.1
57.5°	6829.5	5871.7	2640.7	907.3	745.4	758.9	752.2	684.7	613.8	570.0	566.7
60°	7638.9	6566.5	2532.9	802.6	684.7	711.6	718.4	661.1	624.0	634.1	637.4
62.5°	8455.1	7102.8	2121.3	725.1	644.2	681.3	738.5	735.3	718.4	735.3	738.5
65°	8748.7	7214.1	1504.2	661.1	603.8	694.7	802.6	796.0	718.4	688.0	681.3
67.5°	8583.3	6883.5	1011.9	610.5	573.4	711.6	870.2	796.0	691.3	650.9	637.4
70°	7797.6	6070.7	742.0	559.9	546.3	708.3	907.3	792.6	678.0	634.1	617.1
72.5°	6219.1	4684.7	597.0	512.7	505.8	691.3	927.5	785.8	664.3	617.1	597.0
75°	4026.9	2913.9	502.5	465.4	445.2	664.3	917.3	765.5	647.6	586.9	573.4
77.5°	1868.5	1254.7	428.3	411.5	387.9	624.0	886.9	725.1	610.5	553.0	536.3
80°	870.2	593.6	360.8	357.4	347.4	590.1	846.6	678.0	566.7	519.4	492.5
82.5°	465.4	357.4	293.4	293.4	303.5	549.8	796.0	620.5	509.2	485.7	414.8
85°	246.1	205.7	212.4	229.3	259.7	485.7	728.4	559.9	445.2	371.0	360.8
87.5°	124.8	131.5	131.5	155.1	199.0	394.5	600.3	462.1	377.7	303.5	296.8
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)