

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: P237085

Luminaire Tested: **ARCH-L-AF72-120-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16967.7 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 123
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

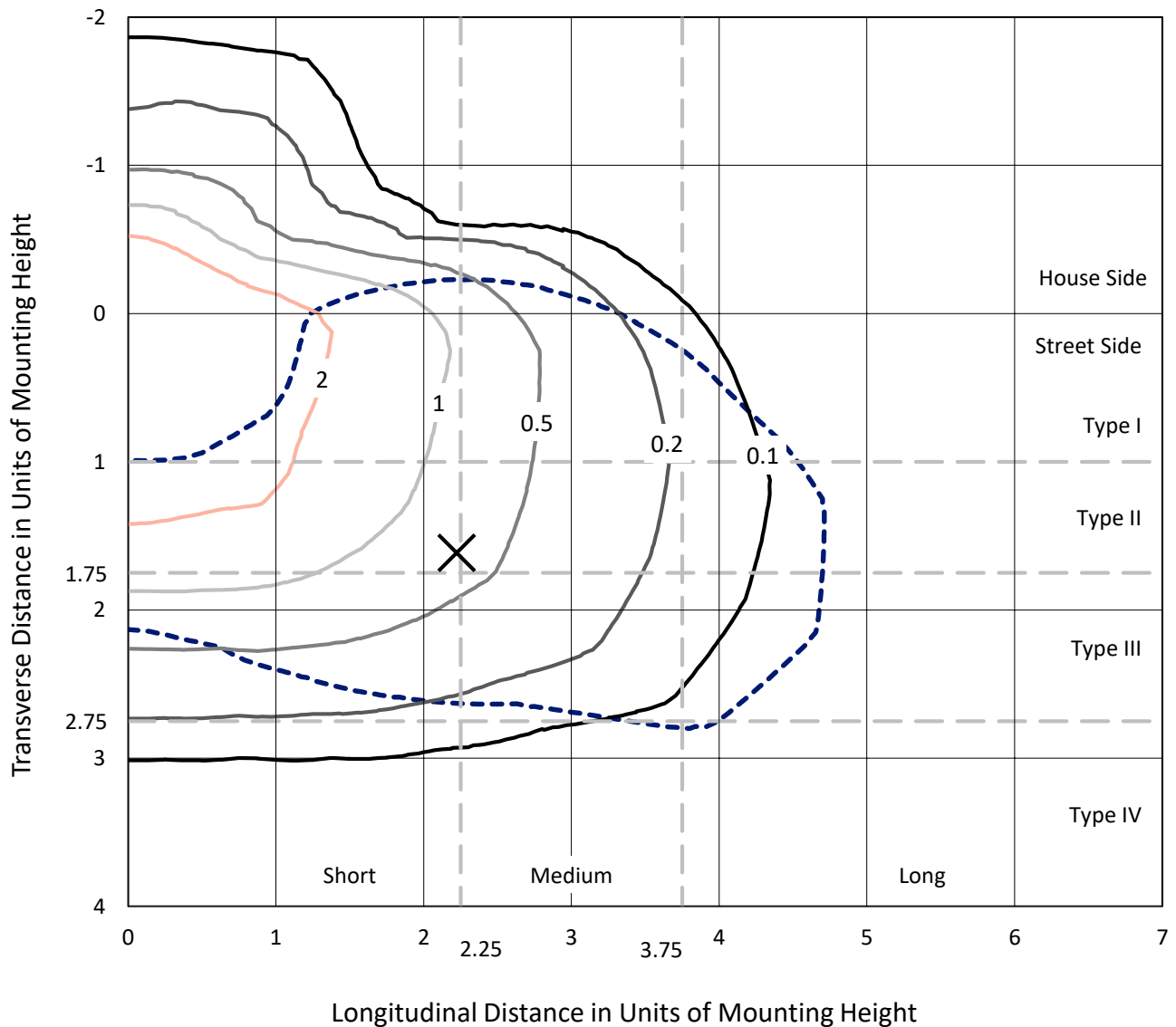


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

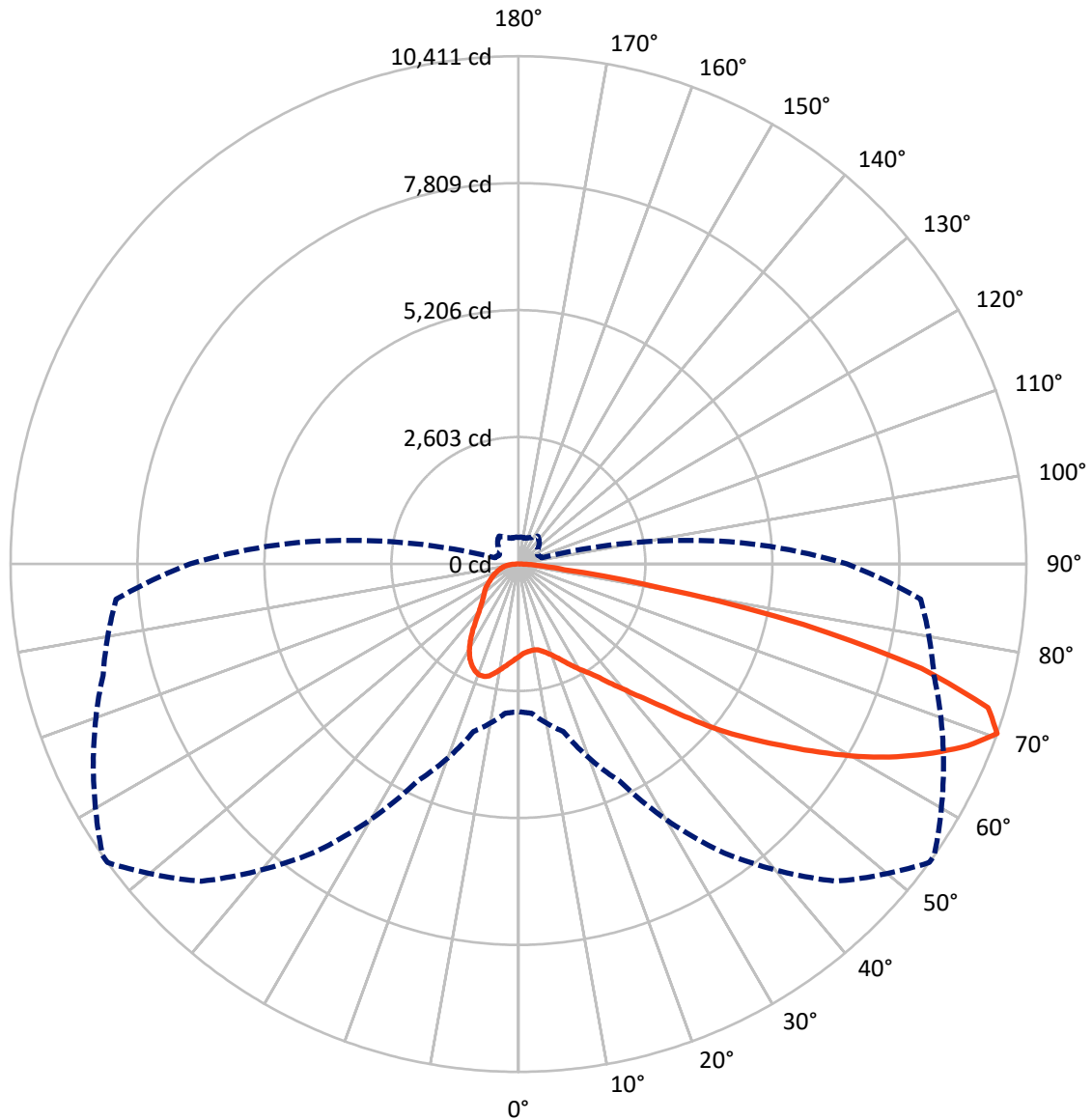


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3848.2	0.0	3848.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	13119.5	0.0	13119.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	16967.7	0.0	16967.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	1.1
10°-20°	595.3	3.5
20°-30°	1034.2	6.1
30°-40°	1511.4	8.9
40°-50°	2372.0	14.0
50°-60°	3647.6	21.5
60°-70°	4456.5	26.3
70°-80°	2763.0	16.3
80°-90°	401.4	2.4
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°	16967.7	100.0
0°-180°	16967.7	100.0

Coefficient of Utilization



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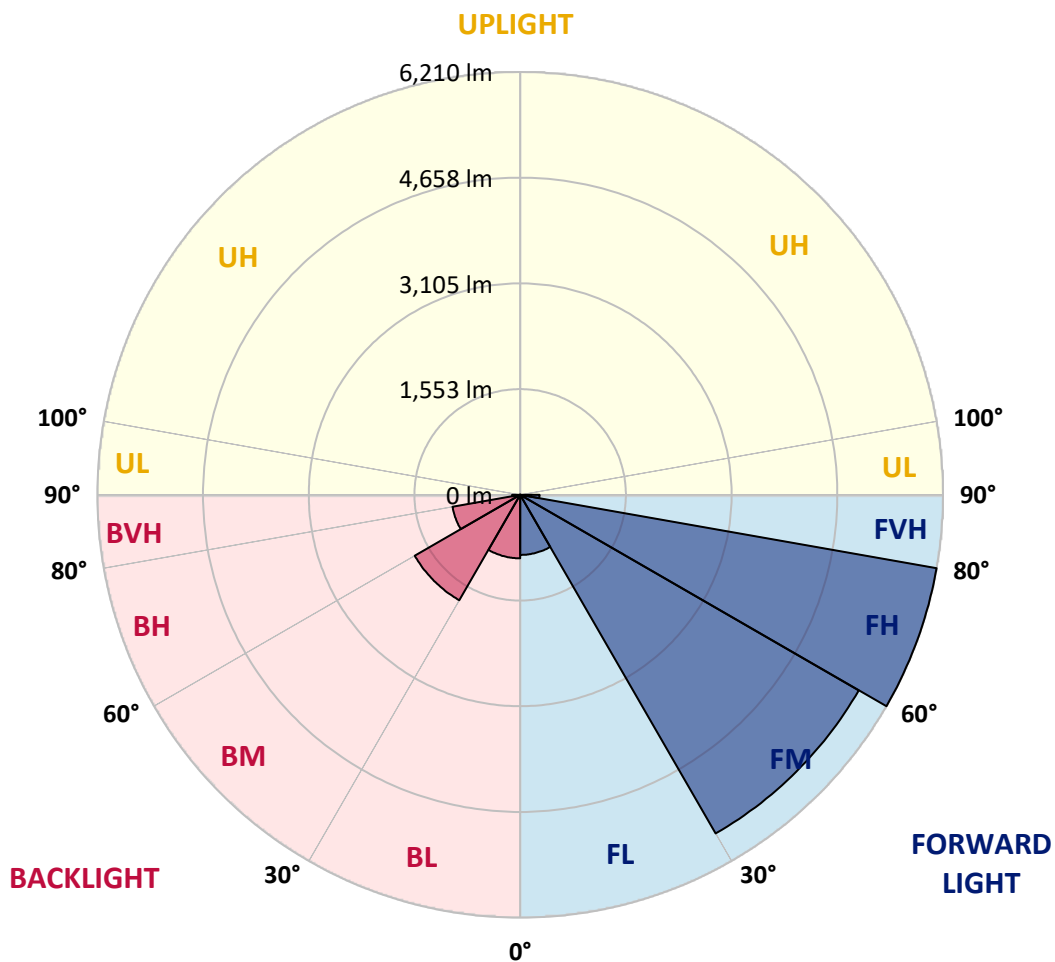
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.8	5.2			
FM	(30°-60°)	5742.8	33.8			
FH	(60°-80°)	6210.4	36.6			G3/7500
FVH	(80°-90°)	283.4	1.7			G3/500
BL	(0°-30°)	933.0	5.5	B2/1000		
BM	(30°-60°)	1788.2	10.5	B2/2500		
BH	(60°-80°)	1009.1	5.9	B3/2500		G3/2500
BVH	(80°-90°)	118.0	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4
2.5°	1823.8	1817.6	1817.6	1826.9	1830.0	1839.3	1839.3	1842.4	1851.7	1867.3	1885.9
5°	1767.9	1764.7	1767.9	1780.2	1786.5	1805.1	1811.3	1814.4	1833.1	1858.0	1885.9
7.5°	1711.9	1708.8	1715.1	1733.7	1752.3	1780.2	1795.8	1799.0	1826.9	1861.1	1898.4
10°	1693.3	1690.2	1699.5	1715.1	1733.7	1764.7	1789.6	1792.7	1833.1	1873.5	1926.3
12.5°	1718.1	1715.1	1724.4	1739.9	1758.6	1780.2	1808.3	1811.3	1864.1	1917.0	1972.9
15°	1780.2	1780.2	1783.4	1792.7	1811.3	1830.0	1854.8	1858.0	1913.8	1976.0	2032.0
17.5°	1876.6	1870.4	1870.4	1867.3	1879.7	1889.0	1920.1	1923.1	1982.3	2038.1	2094.1
20°	1994.7	1991.6	1979.1	1963.6	1960.5	1966.7	1997.7	2000.9	2059.9	2106.5	2159.3
22.5°	2137.6	2140.7	2112.7	2078.5	2063.0	2072.3	2100.3	2103.4	2146.9	2187.3	2233.9
25°	2327.1	2317.8	2277.4	2227.7	2196.6	2196.6	2224.6	2224.6	2264.9	2289.8	2320.9
27.5°	2507.3	2488.6	2451.4	2379.9	2330.2	2339.5	2367.5	2367.5	2404.8	2414.1	2429.6
30°	2703.0	2684.4	2637.8	2547.7	2482.5	2476.3	2510.4	2507.3	2557.0	2553.9	2541.5
32.5°	2942.3	2932.9	2855.3	2740.3	2653.3	2631.5	2662.6	2665.7	2696.8	2687.5	2647.1
35°	3277.8	3274.7	3203.3	3001.3	2886.4	2846.0	2864.6	2864.6	2886.4	2861.5	2793.2
37.5°	3700.3	3706.6	3644.5	3346.2	3184.7	3116.2	3119.4	3116.2	3122.5	3094.5	3023.0
40°	4122.9	4138.4	4135.4	3774.9	3569.9	3451.8	3408.3	3402.1	3417.7	3405.2	3336.9
42.5°	4679.1	4716.3	4629.4	4303.1	4073.2	3874.3	3756.3	3740.7	3774.9	3790.4	3725.2
45°	5256.9	5244.6	5107.8	4871.7	4663.5	4408.7	4185.1	4160.2	4185.1	4231.6	4163.3
47.5°	5558.3	5549.0	5514.8	5396.8	5365.7	5073.6	4734.9	4713.2	4666.6	4731.9	4651.1
50°	6055.5	6064.8	5924.9	5912.6	6043.0	5881.5	5356.4	5306.7	5222.8	5275.6	5207.2
52.5°	6415.8	6375.4	6288.5	6397.2	6804.2	6717.2	5940.5	5918.7	5841.0	5828.7	5797.6
55°	6561.8	6561.8	6577.4	6829.0	7410.1	7295.1	6574.3	6596.0	6490.4	6403.4	6443.8
57.5°	6605.4	6624.0	6757.6	7174.0	8121.5	7745.6	7273.4	7304.4	7152.2	6978.2	7105.6
60°	6391.0	6446.9	6766.9	7369.6	8522.3	8224.1	8009.7	8019.0	7798.5	7543.6	7767.4
62.5°	5841.0	5909.4	6481.1	7450.5	8457.1	8714.9	8705.6	8727.4	8426.0	8109.1	8388.7
65°	5166.8	5235.2	5844.1	7223.7	8407.4	9066.1	9342.6	9401.6	9013.2	8587.6	8777.1
67.5°	4175.7	4265.8	4843.7	6459.3	8165.1	9355.0	9939.1	10001.3	9466.9	8836.1	8743.0
70°	3026.2	3069.7	3554.3	4908.9	7177.0	9196.5	10411.4	10408.2	9615.9	8817.5	8276.9
72.5°	1457.2	1491.4	1910.8	3047.9	5132.7	7804.6	10069.6	10128.6	9410.9	8547.2	7211.2
75°	599.7	633.8	773.7	1286.3	2693.7	5157.5	8534.8	8674.6	8547.2	7671.0	5642.2
77.5°	372.9	385.2	453.6	664.9	1230.3	2407.9	5974.6	6164.2	6773.2	6145.5	3725.2
80°	279.7	289.0	338.7	466.1	776.7	888.5	2967.2	3206.3	4104.3	3526.4	1687.1
82.5°	233.0	236.1	270.3	338.7	528.1	509.5	950.7	1059.5	1913.8	1345.3	581.0
85°	217.5	223.7	242.3	242.3	335.5	320.0	394.6	413.3	556.2	459.8	201.9
87.5°	111.8	105.7	214.4	189.6	174.0	155.4	167.8	180.2	208.2	220.5	90.1
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°	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4	1898.4
2.5°	1892.2	1901.5	1917.0	1932.6	1951.2	1972.9	1985.3	2000.9	2013.3	2007.1	2004.0
5°	1901.5	1917.0	1951.2	1982.3	2019.5	2063.0	2091.0	2122.0	2146.9	2153.1	2143.8
7.5°	1917.0	1944.9	1991.6	2047.4	2097.2	2153.1	2196.6	2240.1	2271.2	2277.4	2277.4
10°	1954.2	1985.3	2047.4	2122.0	2181.0	2240.1	2289.8	2324.0	2352.0	2364.3	2364.3
12.5°	2007.1	2044.4	2118.9	2209.1	2274.3	2330.2	2358.2	2373.7	2386.1	2398.5	2401.7
15°	2069.2	2109.6	2199.8	2296.0	2364.3	2392.4	2392.4	2389.2	2389.2	2395.4	2401.7
17.5°	2131.3	2174.9	2268.1	2370.6	2414.1	2398.5	2376.8	2367.5	2361.3	2358.2	2367.5
20°	2196.6	2240.1	2333.4	2429.6	2417.2	2352.0	2320.9	2299.2	2280.5	2271.2	2283.6
22.5°	2268.1	2308.5	2404.8	2470.0	2376.8	2277.4	2218.4	2184.2	2153.1	2134.5	2146.9
25°	2352.0	2392.4	2485.6	2482.5	2305.3	2165.6	2072.3	2016.4	1982.3	1963.6	1963.6
27.5°	2451.4	2485.6	2575.7	2451.4	2205.9	2016.4	1879.7	1826.9	1817.6	1802.0	1802.0
30°	2553.9	2581.8	2659.6	2379.9	2069.2	1820.6	1671.5	1646.6	1649.8	1634.3	1637.3
32.5°	2659.6	2687.5	2709.3	2274.3	1892.2	1600.1	1500.7	1482.1	1478.9	1466.5	1454.0
35°	2808.7	2849.0	2715.4	2131.3	1677.7	1416.8	1345.3	1326.7	1308.0	1264.6	1264.6
37.5°	3035.5	3079.0	2700.0	1954.2	1457.2	1273.9	1208.6	1183.8	1152.7	1109.2	1093.6
40°	3346.2	3346.2	2665.7	1755.4	1280.0	1158.9	1096.7	1065.7	1031.5	988.0	978.7
42.5°	3712.8	3625.8	2612.9	1553.5	1149.6	1081.3	1025.3	991.1	950.7	901.0	894.8
45°	4141.5	3905.4	2538.4	1373.3	1053.2	1034.6	1000.4	941.4	873.1	820.2	810.9
47.5°	4557.9	4157.1	2466.9	1245.9	972.5	1016.0	988.0	888.5	795.3	720.8	711.5
50°	5014.6	4380.8	2383.1	1140.3	910.3	1003.5	972.5	810.9	708.4	655.6	649.4
52.5°	5471.4	4607.6	2292.9	1028.4	857.5	978.7	935.2	754.9	705.3	633.8	624.5
55°	5952.9	4871.7	2187.3	904.1	795.3	928.9	885.5	751.9	727.0	633.8	612.0
57.5°	6422.1	5163.8	2016.4	783.0	727.0	854.4	866.8	733.3	680.5	627.6	602.7
60°	6940.9	5474.4	1733.7	680.5	668.0	792.3	842.0	692.8	627.6	609.0	596.5
62.5°	7357.3	5754.1	1354.6	609.0	618.3	742.6	810.9	668.0	605.9	590.3	587.2
65°	7537.4	5760.2	972.5	546.9	568.6	695.9	779.8	646.2	587.2	581.0	577.9
67.5°	7348.0	5443.3	683.5	487.7	515.8	652.4	739.5	624.5	568.6	571.7	565.5
70°	6735.8	4775.3	500.2	431.9	466.1	605.9	695.9	596.5	546.9	553.0	543.7
72.5°	5635.9	3722.1	400.8	385.2	425.6	556.2	652.4	565.5	512.6	515.8	497.2
75°	4163.3	2466.9	335.5	344.8	379.0	509.5	596.5	525.1	475.4	462.9	450.5
77.5°	2476.3	1267.6	276.5	301.4	338.7	453.6	534.4	475.4	435.0	413.3	403.9
80°	1022.2	512.6	226.8	254.8	295.1	403.9	472.3	416.3	388.4	366.6	354.1
82.5°	407.0	251.6	180.2	208.2	248.6	351.1	413.3	366.6	338.7	323.2	289.0
85°	155.4	124.3	121.2	146.1	186.4	270.3	341.8	307.6	285.8	245.4	236.1
87.5°	62.1	56.0	56.0	71.5	105.7	170.8	245.4	214.4	223.7	177.1	180.2
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)