

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: P265612

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265612
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-AF72-130-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15446.6 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

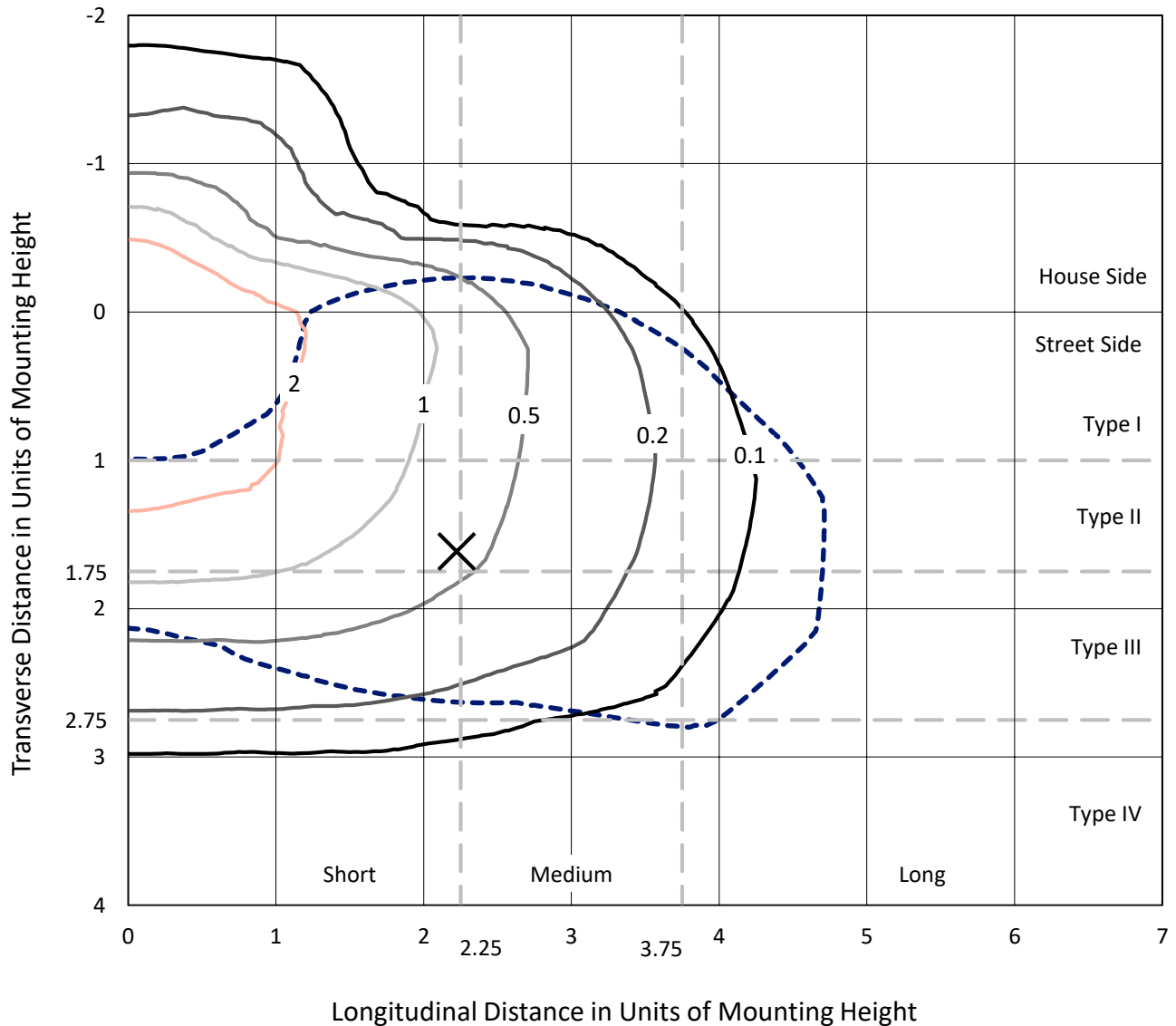
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

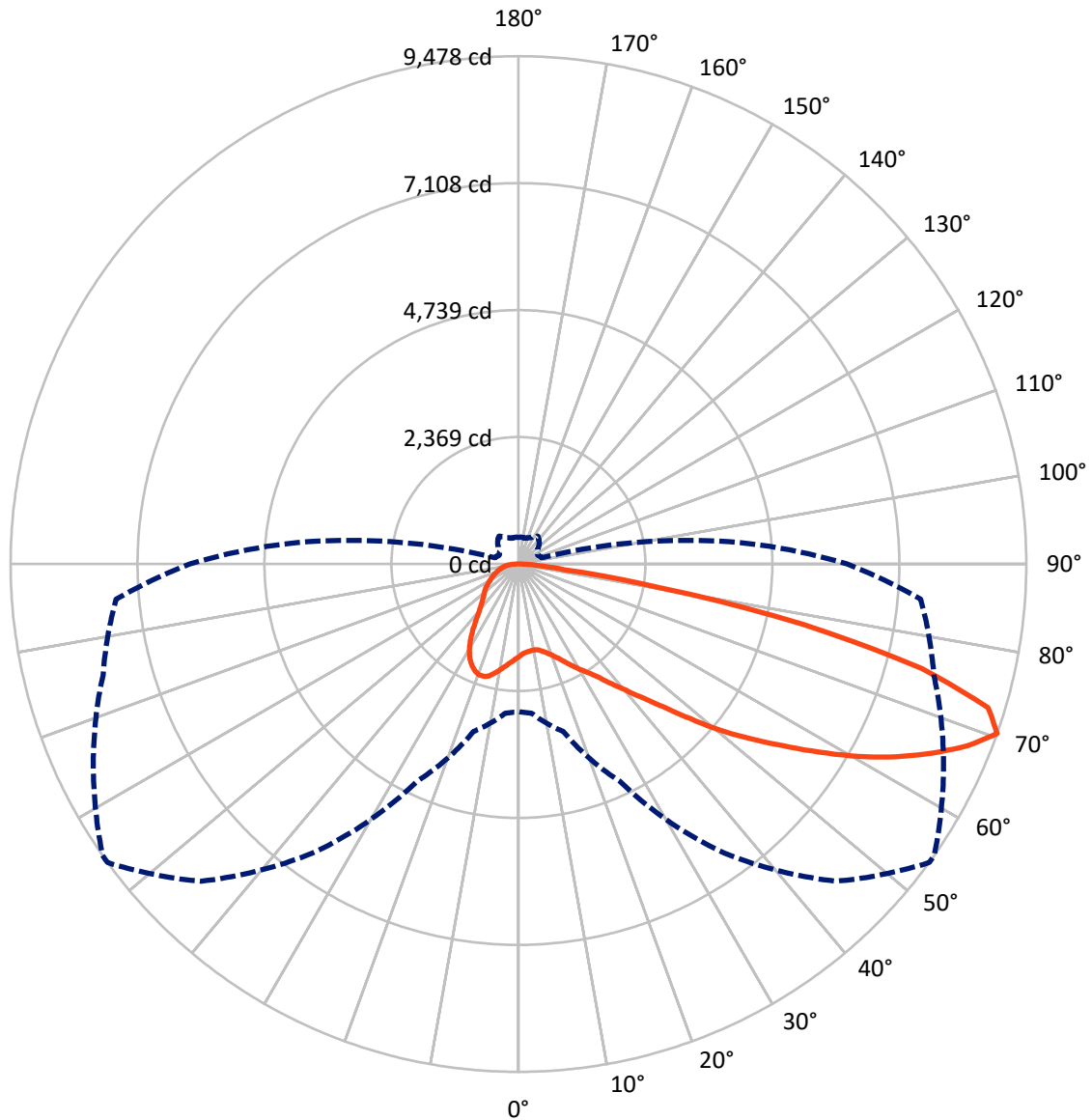
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	3503.2	0.0	3503.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11943.3	0.0	11943.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	15446.6	0.0	15446.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.1
10°-20°	541.9	3.5
20°-30°	941.5	6.1
30°-40°	1375.9	8.9
40°-50°	2159.4	14.0
50°-60°	3320.6	21.5
60°-70°	4057.0	26.3
70°-80°	2515.3	16.3
80°-90°	365.4	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°	15446.6	100.0
0°-180°	15446.6	100.0



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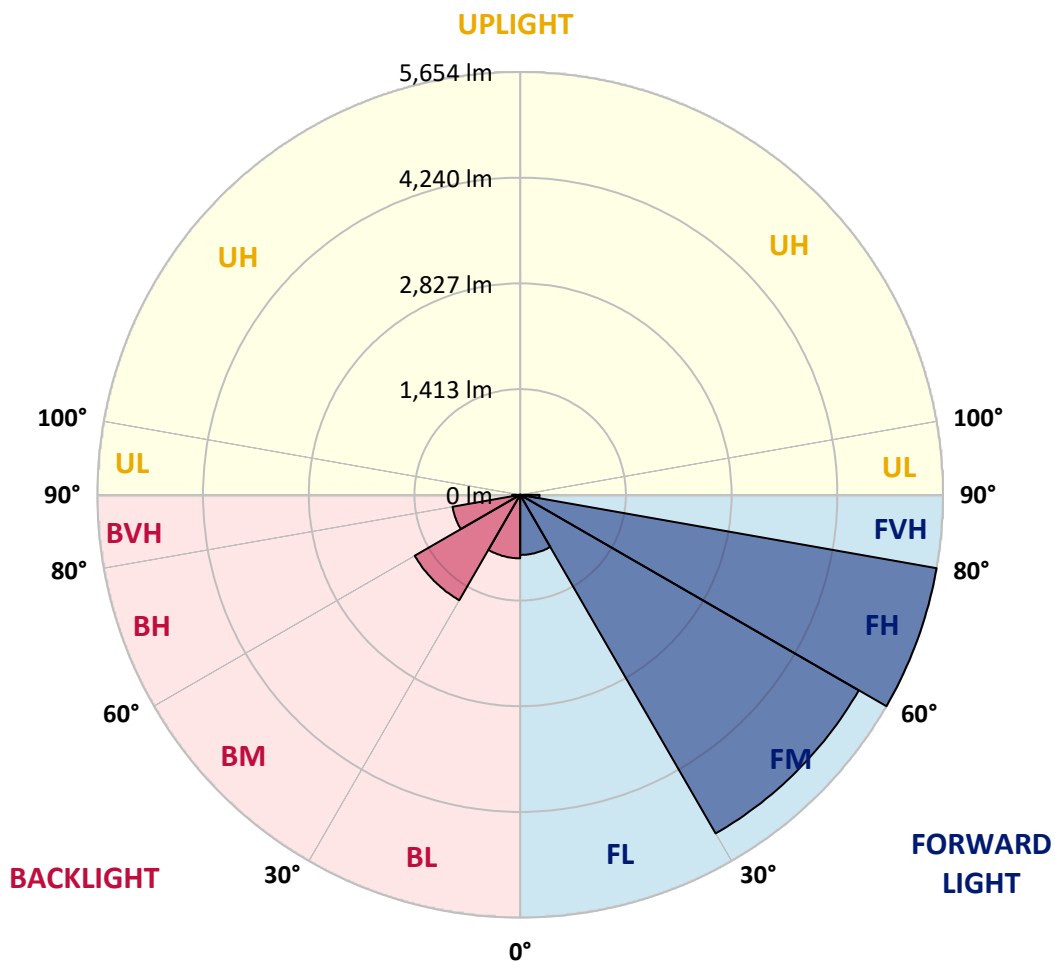
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	803.7	5.2			
FM	(30°-60°)	5227.9	33.8			
FH	(60°-80°)	5653.7	36.6			G3/7500
FVH	(80°-90°)	258.0	1.7			G3/500
BL	(0°-30°)	849.3	5.5	B2/1000		
BM	(30°-60°)	1627.9	10.5	B2/2500		
BH	(60°-80°)	918.6	5.9	B2/1000		G2/1000
BVH	(80°-90°)	107.4	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
2.5°	1660.2	1654.6	1654.6	1663.1	1665.9	1674.4	1674.4	1677.2	1685.7	1699.9	1716.8
5°	1609.4	1606.4	1609.4	1620.7	1626.3	1643.3	1649.0	1651.9	1668.7	1691.4	1716.8
7.5°	1558.5	1555.7	1561.3	1578.2	1595.2	1620.7	1634.8	1637.6	1663.1	1694.3	1728.2
10°	1541.5	1538.6	1547.2	1561.3	1578.2	1606.4	1629.2	1632.0	1668.7	1705.5	1753.6
12.5°	1564.0	1561.3	1569.8	1583.9	1600.9	1620.7	1646.1	1649.0	1697.1	1745.1	1796.0
15°	1620.7	1620.7	1623.4	1632.0	1649.0	1665.9	1688.5	1691.4	1742.4	1798.9	1849.8
17.5°	1708.3	1702.6	1702.6	1699.9	1711.2	1719.6	1747.9	1750.7	1804.5	1855.4	1906.4
20°	1815.8	1813.0	1801.7	1787.5	1784.8	1790.4	1818.7	1821.6	1875.2	1917.6	1965.8
22.5°	1946.0	1948.8	1923.4	1892.2	1878.0	1886.5	1912.0	1914.8	1954.4	1991.3	2033.7
25°	2118.5	2109.9	2073.2	2028.0	1999.6	1999.6	2025.1	2025.1	2061.9	2084.5	2112.9
27.5°	2282.6	2265.5	2231.6	2166.5	2121.3	2129.8	2155.3	2155.3	2189.2	2197.7	2211.7
30°	2460.6	2443.7	2401.3	2319.3	2259.9	2254.2	2285.4	2282.6	2327.8	2325.0	2313.7
32.5°	2678.4	2670.0	2599.3	2494.7	2415.5	2395.7	2423.9	2426.9	2455.1	2446.5	2409.9
35°	2984.0	2981.1	2916.1	2732.3	2627.6	2590.8	2607.8	2607.8	2627.6	2604.9	2542.7
37.5°	3368.6	3374.4	3317.7	3046.2	2899.1	2836.8	2839.7	2836.8	2842.5	2817.1	2752.0
40°	3753.3	3767.4	3764.5	3436.6	3249.9	3142.5	3102.7	3097.0	3111.3	3100.0	3037.7
42.5°	4259.7	4293.4	4214.3	3917.4	3708.1	3527.0	3419.6	3405.5	3436.6	3450.7	3391.2
45°	4785.7	4774.3	4649.8	4434.9	4245.4	4013.4	3809.9	3787.3	3809.9	3852.3	3790.0
47.5°	5060.1	5051.4	5020.4	4912.9	4884.7	4618.7	4310.4	4290.8	4248.3	4307.6	4234.2
50°	5512.5	5521.1	5393.8	5382.5	5501.3	5354.2	4876.2	4830.9	4754.5	4802.7	4740.4
52.5°	5840.7	5803.9	5724.7	5823.7	6194.3	6115.0	5407.9	5388.2	5317.3	5306.1	5277.8
55°	5973.5	5973.5	5987.7	6216.8	6745.7	6641.1	5984.9	6004.7	5908.5	5829.3	5866.1
57.5°	6013.3	6030.1	6151.9	6530.8	7393.5	7051.2	6621.2	6649.7	6510.9	6352.6	6468.5
60°	5818.1	5868.9	6160.2	6709.0	7758.3	7486.8	7291.6	7300.2	7099.3	6867.4	7071.0
62.5°	5317.3	5379.6	5900.1	6782.6	7699.0	7933.7	7925.1	7945.0	7670.6	7382.1	7636.8
65°	4703.6	4765.9	5320.2	6576.0	7653.6	8253.3	8505.1	8558.8	8205.2	7817.7	7990.2
67.5°	3801.4	3883.5	4409.5	5880.2	7433.0	8516.3	9048.1	9104.6	8618.2	8044.1	7959.2
70°	2754.8	2794.4	3235.8	4468.9	6533.6	8372.2	9477.9	9475.1	8754.0	8027.1	7534.9
72.5°	1326.5	1357.7	1739.5	2774.7	4672.5	7105.0	9166.8	9220.7	8567.2	7780.9	6564.8
75°	545.9	577.0	704.4	1171.0	2452.3	4695.1	7769.6	7896.9	7780.9	6983.3	5136.4
77.5°	339.4	350.7	413.0	605.3	1120.0	2192.0	5439.1	5611.5	6166.0	5594.6	3391.2
80°	254.6	263.1	308.3	424.3	707.1	809.0	2701.2	2919.0	3736.3	3210.3	1535.8
82.5°	212.1	215.0	246.0	308.3	480.9	463.9	865.4	964.5	1742.4	1224.7	528.9
85°	197.9	203.6	220.7	220.7	305.5	291.3	359.2	376.2	506.3	418.6	183.9
87.5°	101.8	96.2	195.1	172.6	158.5	141.5	152.7	164.0	189.5	200.9	82.0
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°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
2.5°	1722.5	1730.9	1745.1	1759.3	1776.3	1796.0	1807.4	1821.6	1832.8	1827.2	1824.3
5°	1730.9	1745.1	1776.3	1804.5	1838.6	1878.0	1903.5	1931.8	1954.4	1960.1	1951.6
7.5°	1745.1	1770.6	1813.0	1864.0	1909.2	1960.1	1999.6	2039.3	2067.5	2073.2	2073.2
10°	1779.1	1807.4	1864.0	1931.8	1985.6	2039.3	2084.5	2115.7	2141.1	2152.3	2152.3
12.5°	1827.2	1861.1	1929.0	2010.9	2070.5	2121.3	2146.8	2161.0	2172.2	2183.5	2186.4
15°	1883.7	1920.4	2002.5	2090.1	2152.3	2177.9	2177.9	2175.1	2175.1	2180.6	2186.4
17.5°	1940.2	1979.9	2064.8	2158.1	2197.7	2183.5	2163.7	2155.3	2149.6	2146.8	2155.3
20°	1999.6	2039.3	2124.1	2211.7	2200.5	2141.1	2112.9	2093.1	2076.1	2067.5	2078.9
22.5°	2064.8	2101.6	2189.2	2248.5	2163.7	2073.2	2019.5	1988.4	1960.1	1943.2	1954.4
25°	2141.1	2177.9	2262.7	2259.9	2098.7	1971.4	1886.5	1835.6	1804.5	1787.5	1787.5
27.5°	2231.6	2262.7	2344.8	2231.6	2008.3	1835.6	1711.2	1663.1	1654.6	1640.5	1640.5
30°	2325.0	2350.4	2421.1	2166.5	1883.7	1657.5	1521.6	1499.0	1501.8	1487.8	1490.6
32.5°	2421.1	2446.5	2466.3	2070.5	1722.5	1456.6	1366.1	1349.2	1346.3	1335.1	1323.7
35°	2556.8	2593.6	2472.0	1940.2	1527.4	1289.7	1224.7	1207.7	1190.8	1151.2	1151.2
37.5°	2763.4	2802.9	2457.9	1779.1	1326.5	1159.6	1100.2	1077.6	1049.3	1009.8	995.6
40°	3046.2	3046.2	2426.9	1598.1	1165.3	1055.0	998.5	970.1	939.0	899.5	890.9
42.5°	3380.0	3300.7	2378.7	1414.2	1046.5	984.4	933.3	902.3	865.4	820.2	814.7
45°	3770.2	3555.3	2310.8	1250.1	958.9	941.9	910.7	857.1	794.8	746.8	738.1
47.5°	4149.4	3784.4	2245.8	1134.2	885.3	924.9	899.5	809.0	724.0	656.2	647.7
50°	4565.0	3988.0	2169.3	1038.0	828.7	913.5	885.3	738.1	644.9	596.8	591.2
52.5°	4980.8	4194.5	2087.3	936.3	780.6	890.9	851.4	687.4	642.1	577.0	568.4
55°	5419.3	4434.9	1991.3	823.0	724.0	845.8	806.0	684.5	661.8	577.0	557.2
57.5°	5846.3	4700.8	1835.6	712.7	661.8	777.8	789.2	667.5	619.4	571.3	548.8
60°	6318.7	4983.6	1578.2	619.4	608.2	721.2	766.6	630.7	571.3	554.3	543.0
62.5°	6697.7	5238.1	1233.3	554.3	562.9	676.0	738.1	608.2	551.5	537.4	534.6
65°	6861.8	5243.9	885.3	497.8	517.7	633.6	709.9	588.3	534.6	528.9	526.0
67.5°	6689.1	4955.4	622.3	444.0	469.5	594.0	673.2	568.4	517.7	520.4	514.8
70°	6132.0	4347.3	455.4	393.2	424.3	551.5	633.6	543.0	497.8	503.5	495.0
72.5°	5130.7	3388.4	364.8	350.7	387.4	506.3	594.0	514.8	466.7	469.5	452.6
75°	3790.0	2245.8	305.5	314.0	345.0	463.9	543.0	478.0	432.8	421.5	410.2
77.5°	2254.2	1154.1	251.7	274.3	308.3	413.0	486.5	432.8	396.0	376.2	367.6
80°	930.6	466.7	206.5	231.9	268.8	367.6	429.8	379.1	353.6	333.7	322.4
82.5°	370.6	229.1	164.0	189.5	226.3	319.5	376.2	333.7	308.3	294.1	263.1
85°	141.5	113.1	110.3	132.9	169.7	246.0	311.2	280.0	260.1	223.5	215.0
87.5°	56.6	50.9	50.9	65.0	96.2	155.5	223.5	195.1	203.6	161.2	164.0
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)