

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: P1210602

Luminaire Tested: **ARCH3-170-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16704 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

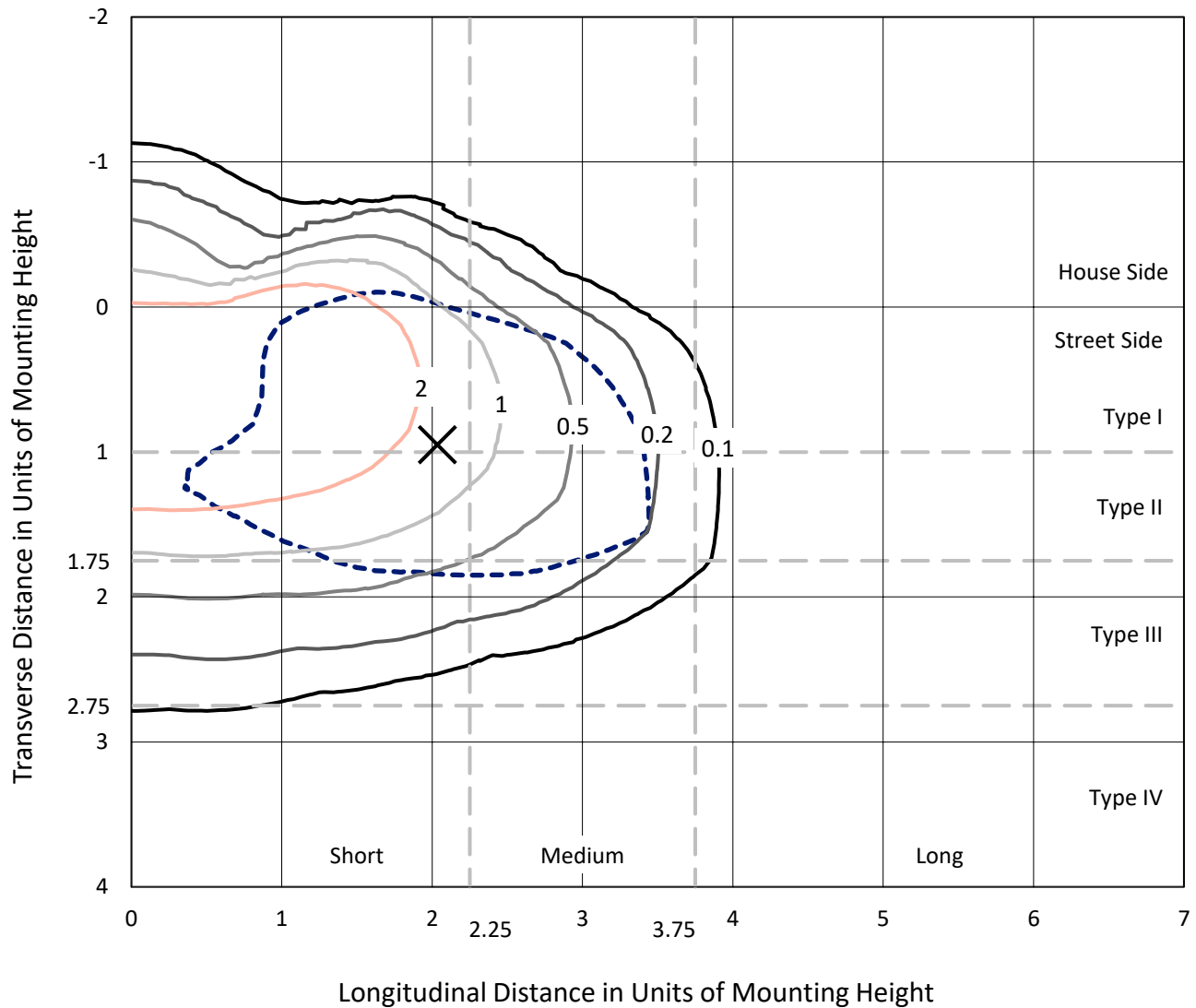
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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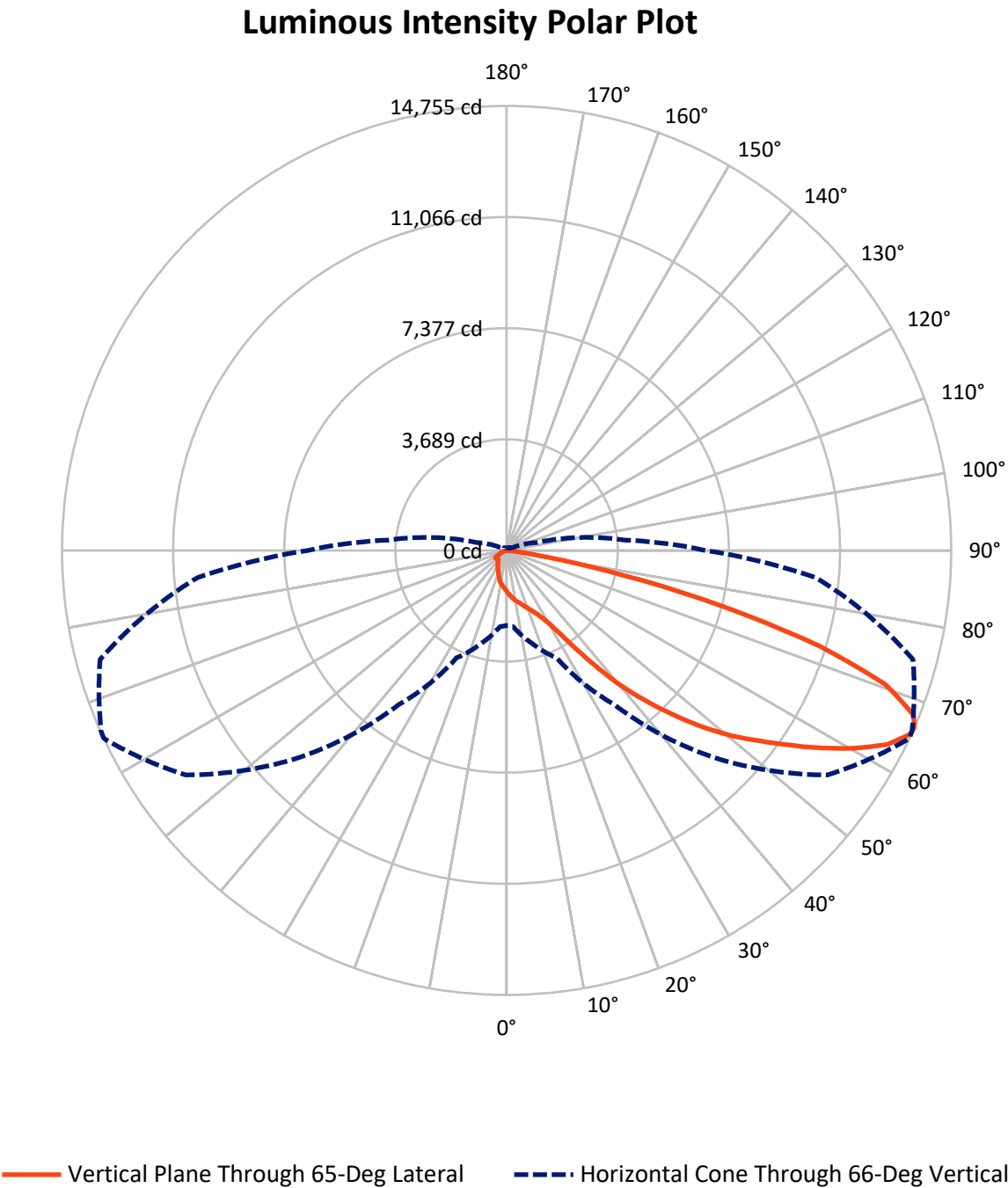
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1971.4	0.0	1971.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14732.6	0.0	14732.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	16704.0	0.0	16704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	0.8
10°-20°	381.9	2.3
20°-30°	699.1	4.2
30°-40°	1420.4	8.5
40°-50°	2999.6	18.0
50°-60°	4611.3	27.6
60°-70°	4641.6	27.8
70°-80°	1734.4	10.4
80°-90°	86.6	0.5
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°	16704.0	100.0
0°-180°	16704.0	100.0

Coefficient of Utilization



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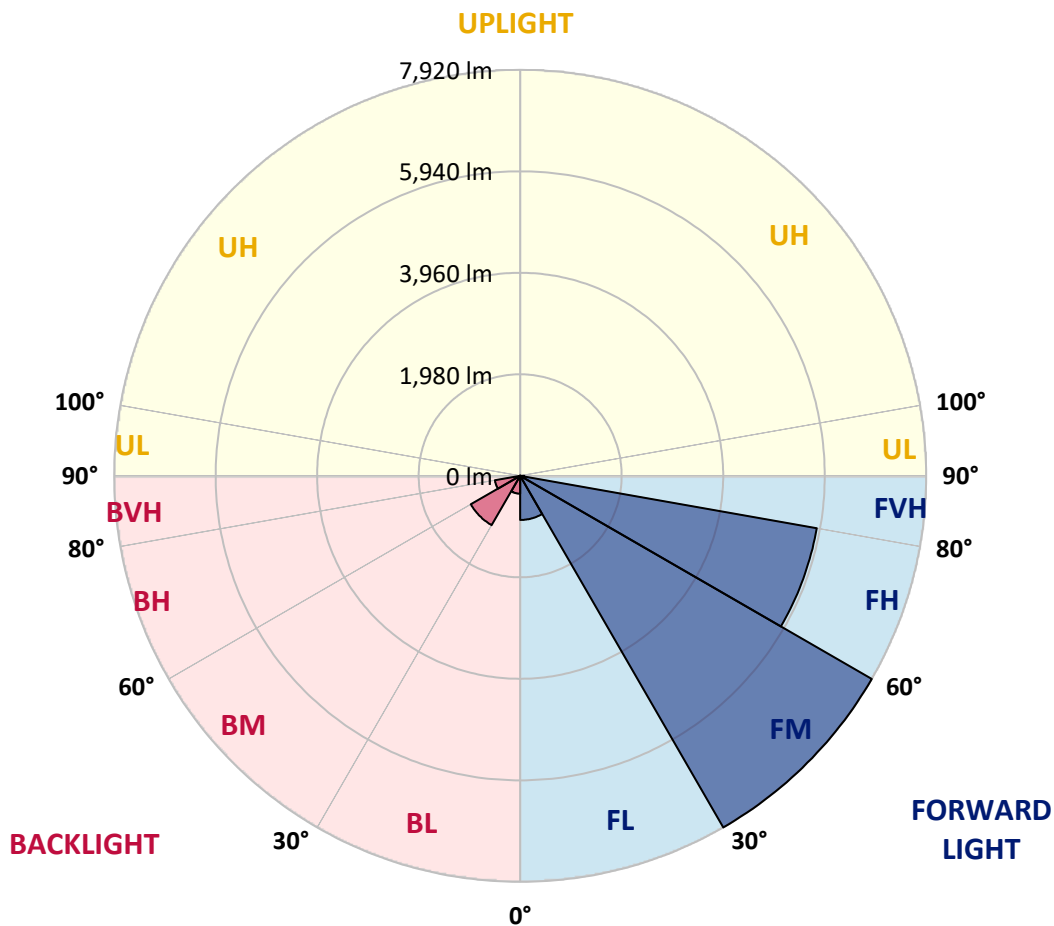
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	861.1	5.2			
FM	(30°-60°)	7919.9	47.4			
FH	(60°-80°)	5875.2	35.2			G3/7500
FVH	(80°-90°)	76.5	0.5			G1/100
BL	(0°-30°)	348.9	2.1	B1/500		
BM	(30°-60°)	1111.5	6.7	B2/2500		
BH	(60°-80°)	500.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.2	0.1			G1/100
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°	55°	65°	66°	75°	85°
0°	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9
2.5°	1551.9	1554.9	1548.8	1536.7	1524.6	1509.4	1485.2	1445.8	1439.7	1412.4	1382.1
5°	1657.9	1664.0	1654.9	1651.9	1645.8	1624.6	1591.3	1533.7	1527.6	1473.1	1403.3
7.5°	1694.3	1703.4	1697.3	1697.3	1697.3	1688.3	1673.1	1621.6	1612.5	1542.8	1436.7
10°	1721.6	1727.7	1724.6	1736.7	1745.8	1739.8	1730.7	1700.4	1691.3	1621.6	1482.1
12.5°	1764.0	1767.1	1770.1	1776.1	1791.3	1797.4	1794.3	1767.1	1761.0	1712.5	1539.7
15°	1803.4	1803.4	1806.5	1833.7	1855.0	1867.1	1870.1	1848.9	1842.8	1803.4	1612.5
17.5°	1839.8	1842.8	1851.9	1882.2	1918.6	1942.9	1958.0	1948.9	1939.8	1909.5	1697.3
20°	1894.4	1900.4	1909.5	1951.9	1988.3	2027.7	2058.0	2055.0	2052.0	2030.8	1797.4
22.5°	1988.3	1994.4	2009.5	2048.9	2085.3	2133.8	2185.3	2182.3	2173.2	2158.1	1915.6
25°	2130.8	2130.8	2139.9	2173.2	2218.7	2276.3	2324.8	2333.8	2324.8	2315.7	2064.1
27.5°	2309.6	2312.6	2312.6	2349.0	2391.4	2464.2	2524.8	2533.9	2533.9	2524.8	2264.1
30°	2558.1	2549.0	2543.0	2573.3	2618.8	2724.8	2830.9	2849.1	2840.0	2855.2	2546.0
32.5°	2985.5	2970.4	2918.8	2924.9	2952.2	3097.7	3276.5	3340.1	3337.1	3364.4	3000.7
35°	3576.5	3546.2	3470.5	3406.8	3403.8	3561.4	3834.2	4073.6	4070.6	4164.6	3691.7
37.5°	4243.4	4282.8	4140.3	4031.2	3997.9	4122.1	4473.7	4992.0	5019.3	5183.0	4598.0
40°	5134.5	5158.7	4976.9	4822.3	4664.7	4710.1	5173.9	5980.1	6028.6	6210.5	5504.2
42.5°	5910.4	5934.6	5828.6	5640.6	5440.6	5355.7	5880.1	6877.3	6916.7	7168.2	6437.8
45°	6437.8	6456.0	6492.3	6510.5	6283.2	6107.4	6743.9	7798.7	7847.2	8138.2	7350.1
47.5°	6850.0	6865.1	6937.9	7119.8	7074.3	6934.9	7622.9	8756.5	8768.6	9092.9	8238.2
50°	7040.9	7077.3	7256.1	7535.0	7735.0	7774.4	8577.6	9662.7	9696.1	10005.2	9077.8
52.5°	6828.8	6840.9	7292.5	7816.9	8220.0	8620.1	9535.4	10502.3	10599.3	10829.7	9832.5
55°	6113.5	6201.4	6886.4	7807.8	8601.9	9423.3	10559.9	11408.6	11496.5	11642.0	10496.3
57.5°	5283.0	5380.0	6213.5	7416.8	8765.6	10165.9	11508.6	12372.4	12433.0	12472.4	11105.5
60°	4564.6	4655.6	5513.3	6668.1	8601.9	10690.2	12390.6	13330.2	13381.7	13275.7	11411.6
62.5°	3682.6	3773.6	4637.4	5677.0	7959.3	10796.3	13045.3	14181.9	14203.1	13915.2	11223.7
65°	2776.4	2837.0	3558.4	4449.5	6834.8	10232.6	13193.8	14712.3	14691.1	14100.1	10659.9
66°	2488.4	2540.0	3176.5	3934.2	6249.9	9717.3	12993.8	14754.8	14733.6	13963.7	10290.1
67.5°	2145.9	2161.1	2685.4	3218.9	5228.4	8623.1	12384.5	14560.8	14579.0	13587.8	9614.2
70°	1676.1	1673.1	1976.2	2239.9	3570.5	6134.7	10329.5	13339.3	13427.2	12169.3	8198.8
72.5°	1073.0	1036.6	1212.4	1370.0	2079.2	3561.4	7532.0	10872.1	11020.6	9559.7	6107.4
75°	639.5	603.2	645.6	685.0	997.2	1712.5	4428.2	7398.6	7541.1	6128.6	3634.1
77.5°	478.9	463.7	466.8	433.4	442.5	642.6	2021.7	3910.0	4013.0	2509.6	1379.1
80°	366.7	327.3	306.1	321.3	291.0	254.6	751.7	1345.8	1409.4	594.1	287.9
82.5°	245.5	212.2	197.0	215.2	184.9	142.5	181.9	260.7	254.6	160.6	112.1
85°	127.3	109.1	109.1	109.1	94.0	69.7	78.8	106.1	106.1	84.9	66.7
87.5°	36.4	33.3	39.4	36.4	27.3	27.3	30.3	36.4	36.4	33.3	30.3
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°	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9	1360.9
2.5°	1357.9	1345.8	1312.4	1288.2	1263.9	1242.7	1218.5	1212.4	1200.3	1203.3	1197.2
5°	1367.0	1333.6	1276.0	1221.5	1179.0	1142.7	1097.2	1079.0	1054.8	1045.7	1039.6
7.5°	1379.1	1330.6	1245.7	1170.0	1097.2	1024.5	951.7	909.3	882.0	869.9	860.8
10°	1406.4	1342.7	1230.6	1112.4	988.1	885.0	812.3	782.0	763.8	760.8	757.7
12.5°	1442.7	1360.9	1215.4	1039.6	876.0	779.0	733.5	724.4	721.4	721.4	718.3
15°	1497.3	1391.2	1191.2	954.8	788.1	721.4	700.2	685.0	678.9	678.9	678.9
17.5°	1551.9	1427.6	1154.8	866.9	727.4	685.0	663.8	654.7	648.6	651.7	648.6
20°	1621.6	1470.0	1106.3	791.1	688.0	654.7	633.5	624.4	621.3	621.3	621.3
22.5°	1700.4	1518.5	1045.7	733.5	654.7	624.4	603.2	594.1	588.0	591.0	591.0
25°	1806.5	1579.1	982.0	675.9	621.3	594.1	569.8	557.7	557.7	560.7	563.8
27.5°	1942.9	1651.9	918.4	639.5	591.0	563.8	536.5	524.4	527.4	533.5	533.5
30°	2142.9	1751.9	854.7	600.1	557.7	527.4	503.1	491.0	497.1	509.2	509.2
32.5°	2427.8	1915.6	800.2	554.7	509.2	475.9	451.6	442.5	457.7	481.9	481.9
35°	2937.0	2215.6	766.8	509.2	457.7	418.3	388.0	378.9	400.1	430.4	430.4
37.5°	3619.0	2697.6	779.0	469.8	415.2	369.8	336.4	324.3	339.5	366.7	375.8
40°	4379.8	3279.5	885.0	436.5	375.8	330.4	297.0	284.9	294.0	306.1	309.2
42.5°	5140.5	3897.8	1085.1	412.2	345.5	297.0	266.7	257.6	263.7	266.7	269.8
45°	5898.3	4510.1	1336.7	397.1	318.3	269.8	239.4	239.4	242.5	242.5	242.5
47.5°	6616.6	5107.2	1600.4	394.0	294.0	242.5	218.2	221.3	221.3	224.3	224.3
50°	7295.5	5640.6	1867.1	403.1	272.8	218.2	200.0	200.0	200.0	203.1	200.0
52.5°	7862.3	6107.4	2145.9	418.3	251.6	200.0	181.9	181.9	181.9	184.9	181.9
55°	8398.8	6531.7	2430.8	439.5	233.4	184.9	166.7	160.6	160.6	163.7	160.6
57.5°	8835.3	6813.6	2700.6	442.5	218.2	169.7	154.6	145.5	145.5	145.5	145.5
60°	8853.5	6650.0	2779.4	388.0	200.0	154.6	139.4	127.3	130.3	130.3	130.3
62.5°	8274.6	5789.2	2233.8	291.0	178.8	139.4	127.3	115.2	115.2	115.2	115.2
65°	7137.9	4504.0	1309.4	230.4	154.6	124.3	112.1	103.1	103.1	103.1	100.0
66°	6604.5	3949.4	1003.3	209.1	145.5	121.2	109.1	100.0	97.0	94.0	94.0
67.5°	5734.6	3121.9	627.4	184.9	133.4	112.1	100.0	90.9	87.9	84.9	84.9
70°	4319.1	1982.3	306.1	142.5	115.2	97.0	87.9	78.8	75.8	72.7	69.7
72.5°	3031.0	1160.9	160.6	109.1	94.0	84.9	75.8	66.7	63.7	60.6	60.6
75°	1712.5	560.7	106.1	78.8	75.8	69.7	63.7	54.6	51.5	51.5	51.5
77.5°	648.6	194.0	72.7	57.6	60.6	54.6	45.5	45.5	42.4	45.5	42.4
80°	169.7	84.9	45.5	42.4	45.5	39.4	33.3	36.4	36.4	36.4	36.4
82.5°	90.9	48.5	27.3	30.3	27.3	27.3	21.2	24.2	27.3	24.2	27.3
85°	63.7	24.2	15.2	15.2	12.1	12.1	9.1	12.1	15.2	12.1	12.1
87.5°	33.3	9.1	9.1	9.1	9.1	6.1	3.0	0.0	3.0	3.0	3.0
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)