

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: P399364

Luminaire Tested: **ARCH-L-PA3-130-750-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-130-750-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21272 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

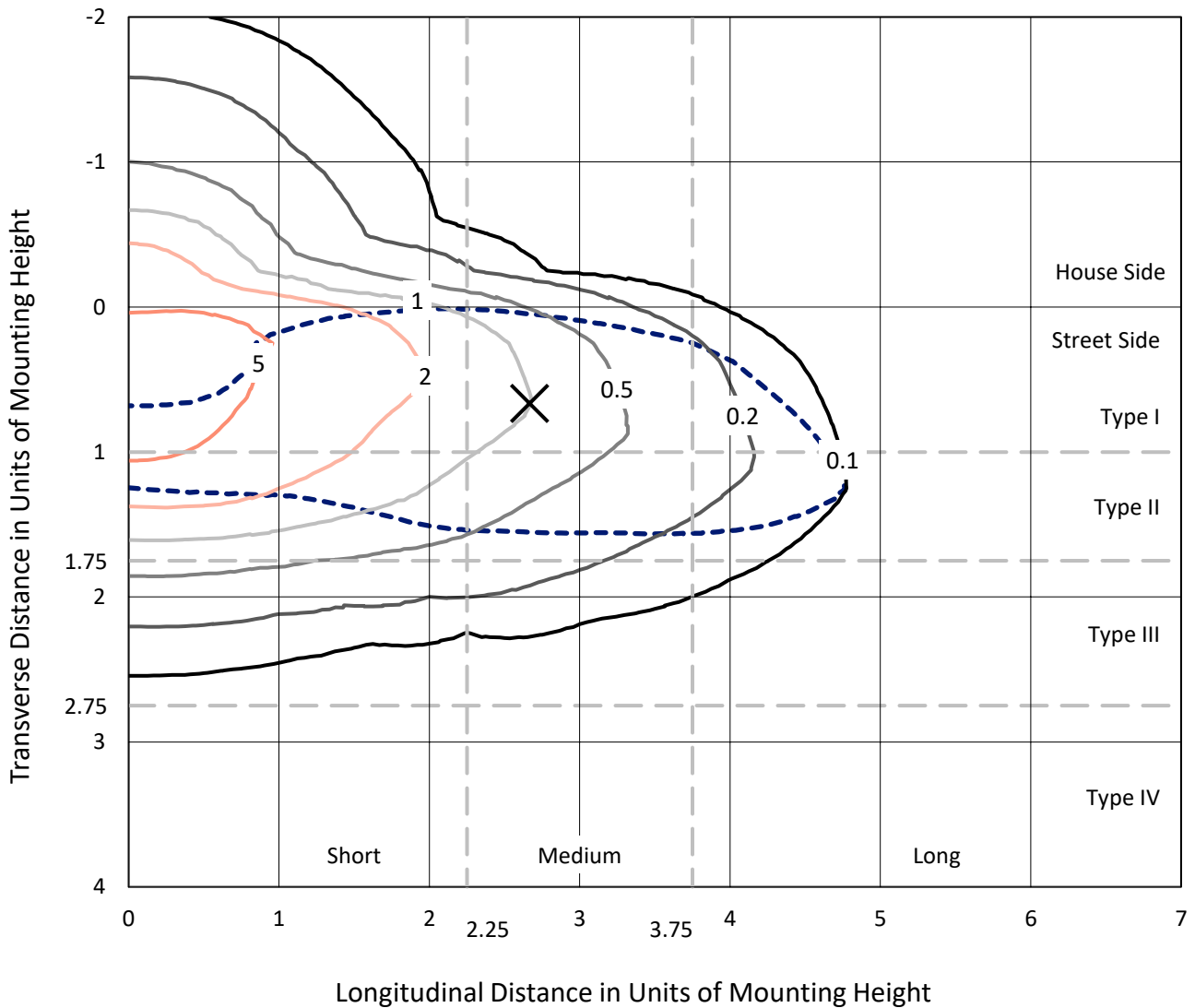
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

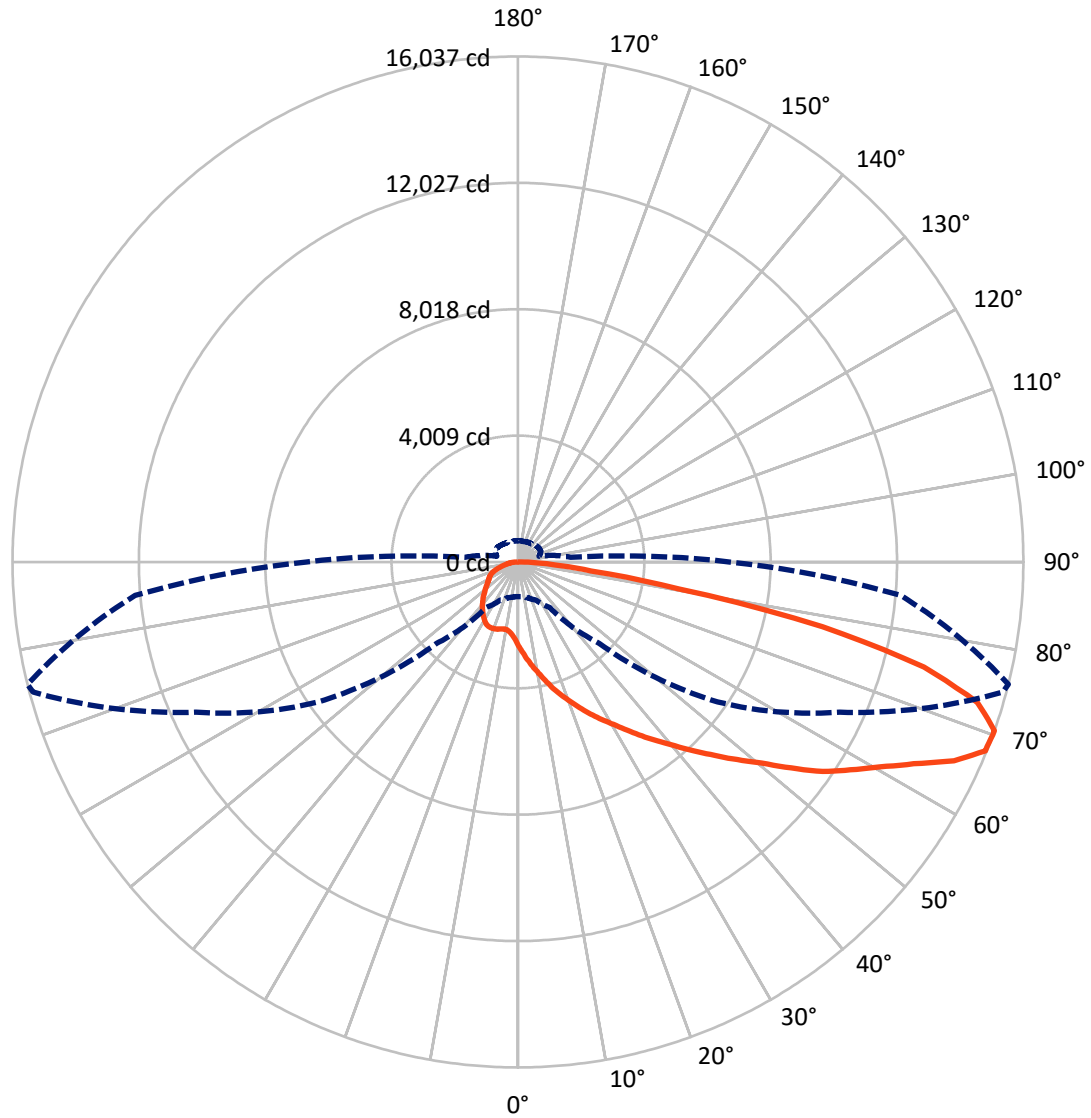
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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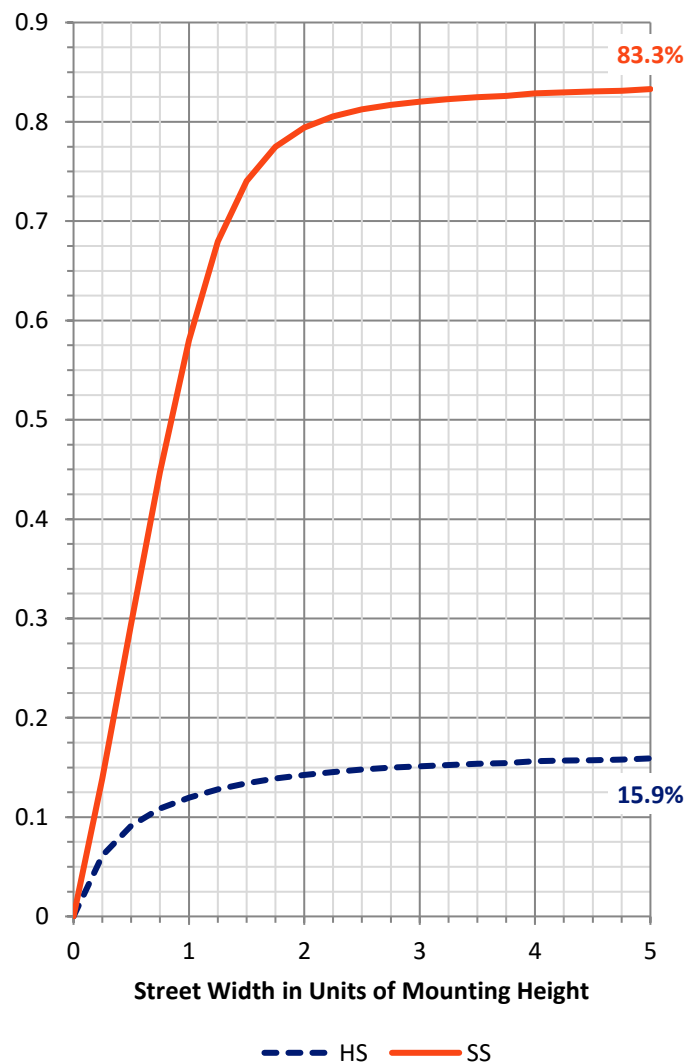
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3472.9	0.0	3472.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	17799.1	0.0	17799.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	21272.0	0.0	21272.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.3
10°-20°	939.4	4.4
20°-30°	1680.7	7.9
30°-40°	2718.8	12.8
40°-50°	3933.1	18.5
50°-60°	4501.7	21.2
60°-70°	4141.1	19.5
70°-80°	2560.8	12.0
80°-90°	520.0	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°	21272.0	100.0
0°-180°	21272.0	100.0



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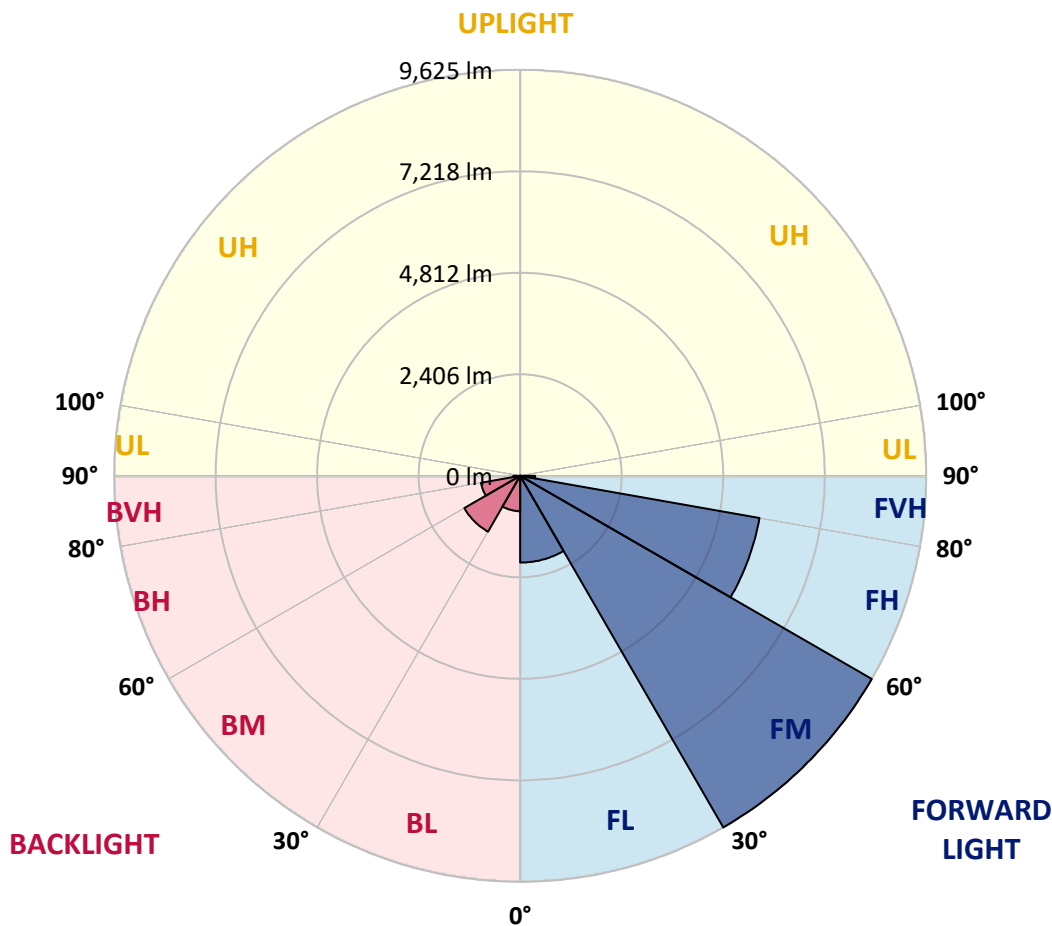
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.7	9.7			
FM (30°-60°)	9624.6	45.2			
FH (60°-80°)	5759.9	27.1			G3/7500
FVH (80°-90°)	357.0	1.7			G3/500
BL (0°-30°)	838.8	3.9	B2/1000		
BM (30°-60°)	1529.1	7.2	B2/2500		
BH (60°-80°)	942.0	4.4	B2/1000		G2/1000
BVH (80°-90°)	163.0	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2
2.5°	3390.2	3365.1	3362.3	3323.1	3286.7	3188.8	3118.9	2995.8	2872.7	2869.9	2746.9
5°	3918.9	3893.7	3879.7	3832.2	3770.7	3642.0	3516.1	3325.9	3116.1	3102.1	2869.9
7.5°	4276.9	4254.6	4226.6	4207.0	4148.3	4033.6	3879.7	3653.2	3365.1	3337.1	3012.6
10°	4517.5	4503.5	4497.9	4483.9	4447.6	4355.3	4207.0	3966.5	3614.0	3583.2	3163.7
12.5°	4621.0	4615.4	4640.6	4679.7	4693.7	4657.4	4514.7	4288.1	3888.1	3854.6	3345.5
15°	4500.7	4506.3	4570.7	4704.9	4847.6	4925.9	4842.0	4621.0	4198.6	4151.1	3558.1
17.5°	4444.8	4453.2	4497.9	4626.6	4828.0	5071.4	5110.5	4937.1	4497.9	4430.8	3781.8
20°	4542.7	4553.9	4587.4	4688.1	4828.0	5088.1	5292.3	5239.2	4791.6	4721.7	3997.2
22.5°	4791.6	4805.6	4802.8	4867.2	4962.3	5141.3	5393.0	5524.5	5099.3	5021.0	4221.0
25°	5323.1	5311.9	5216.8	5186.0	5211.2	5325.9	5527.3	5798.6	5421.0	5342.7	4456.0
27.5°	6044.8	6030.8	5857.4	5700.7	5560.9	5611.2	5717.5	6019.6	5748.3	5658.8	4679.7
30°	6816.8	6800.0	6598.6	6344.1	6033.6	5960.9	5946.9	6212.6	6078.4	5983.2	4917.5
32.5°	7569.3	7555.3	7339.9	7043.4	6615.4	6397.2	6263.0	6428.0	6453.2	6360.9	5177.7
35°	8254.6	8254.6	8070.0	7717.5	7233.6	6903.5	6682.6	6693.7	6884.0	6777.7	5474.2
37.5°	8864.4	8861.6	8660.2	8313.3	7849.0	7471.4	7197.2	7015.4	7295.1	7202.8	5784.6
40°	9348.3	9328.7	9180.5	8878.4	8411.2	8036.4	7759.5	7393.0	7753.9	7670.0	6114.7
42.5°	9700.8	9689.6	9588.9	9325.9	8881.2	8528.7	8338.5	7868.6	8274.2	8190.3	6500.7
45°	9837.8	9860.2	9860.2	9611.2	9258.8	8937.1	8853.2	8391.7	8836.4	8752.5	6914.7
47.5°	9616.8	9675.6	9795.9	9812.6	9502.2	9284.0	9311.9	8917.5	9415.4	9370.7	7367.9
50°	8925.9	9035.0	9298.0	9773.5	9600.1	9549.7	9703.6	9454.6	10036.4	10022.4	7918.9
52.5°	7144.1	7409.8	8229.4	9082.6	9532.9	9672.8	10092.4	10058.8	10836.4	10858.8	8637.8
55°	5479.8	5580.5	6528.7	7980.5	9121.7	9633.6	10352.5	10649.0	11703.6	11731.5	9298.0
57.5°	4430.8	4497.9	5015.4	6528.7	8184.7	9421.0	10556.7	10993.1	12369.3	12442.0	9885.4
60°	3510.5	3608.4	3955.3	4995.8	6872.8	8909.1	10699.4	11376.3	13085.4	13194.5	10587.5
62.5°	2609.8	2657.4	2984.6	3700.7	5440.6	7988.9	10623.8	11793.1	13963.7	14095.2	11432.2
65°	1857.4	1899.3	2131.5	2632.2	4022.4	6744.1	10184.7	12103.6	15065.8	15200.1	12282.6
67.5°	1390.2	1407.0	1538.5	1840.6	2710.5	5239.2	9295.2	12050.4	15871.4	15991.7	12623.8
70°	1099.3	1104.9	1169.2	1331.5	1762.2	3647.6	7737.1	11270.0	15930.2	16036.5	12193.1
72.5°	911.9	909.1	945.5	1023.8	1228.0	2307.7	5731.5	9821.0	15174.9	15247.6	10990.3
75°	752.5	758.0	783.2	828.0	937.1	1521.7	3714.7	7835.0	13387.5	13309.2	9222.4
77.5°	632.2	629.4	640.6	679.7	758.0	1093.7	2176.2	5661.6	9921.7	9882.6	6053.2
80°	509.1	514.7	531.5	565.0	637.8	833.6	1286.7	3532.9	5323.1	5180.4	2892.3
82.5°	341.3	394.4	428.0	467.1	551.1	615.4	816.8	1795.8	2380.4	2344.1	1311.9
85°	162.2	215.4	318.9	363.6	447.6	386.0	553.8	855.9	1191.6	1177.6	472.7
87.5°	33.6	33.6	170.6	204.2	276.9	165.0	307.7	372.0	576.2	539.9	193.0
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°	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2	2660.2
2.5°	2674.1	2598.6	2447.6	2327.3	2204.2	2134.3	2047.6	2005.6	1997.2	1974.8	1991.6
5°	2721.7	2573.4	2288.1	2100.7	1974.8	1913.3	1882.5	1871.3	1868.5	1862.9	1862.9
7.5°	2786.0	2559.5	2187.4	1997.2	1916.1	1896.5	1904.9	1921.7	1924.5	1930.1	1927.3
10°	2864.4	2562.3	2131.5	1972.0	1932.9	1935.7	1963.6	1986.0	1997.2	2005.6	2002.8
12.5°	2973.4	2595.8	2123.1	1988.8	1972.0	1983.2	2011.2	2033.6	2044.8	2047.6	2047.6
15°	3116.1	2665.7	2142.7	2025.2	2011.2	2019.6	2036.4	2044.8	2047.6	2044.8	2044.8
17.5°	3272.7	2749.7	2170.6	2047.6	2025.2	2016.8	2011.2	2002.8	1986.0	1974.8	1974.8
20°	3423.8	2825.2	2184.6	2044.8	2005.6	1972.0	1938.5	1896.5	1868.5	1846.2	1846.2
22.5°	3574.8	2895.1	2184.6	2014.0	1952.5	1888.1	1818.2	1751.1	1709.1	1681.1	1681.1
25°	3734.3	2962.3	2167.8	1960.9	1868.5	1776.2	1681.1	1597.2	1555.3	1527.3	1521.7
27.5°	3868.6	3001.4	2123.1	1885.3	1765.0	1647.6	1538.5	1451.8	1421.0	1395.8	1395.8
30°	4011.2	3026.6	2039.2	1787.4	1647.6	1513.3	1401.4	1331.5	1297.9	1261.5	1258.7
32.5°	4170.7	3043.4	1944.1	1683.9	1527.3	1384.6	1289.5	1233.6	1160.8	1121.7	1116.1
35°	4355.3	3065.8	1843.4	1566.4	1407.0	1278.3	1222.4	1130.1	1060.1	1026.6	1023.8
37.5°	4551.1	3082.5	1734.3	1462.9	1297.9	1208.4	1152.5	1043.4	981.8	931.5	925.9
40°	4758.1	3082.5	1622.4	1362.2	1211.2	1177.6	1071.3	973.4	869.9	844.8	839.2
42.5°	4987.4	3076.9	1510.5	1264.3	1130.1	1107.7	1023.8	920.3	867.1	844.8	839.2
45°	5230.8	3057.4	1404.2	1152.5	1046.2	1001.4	937.1	909.1	886.7	886.7	886.7
47.5°	5507.7	3040.6	1283.9	1051.8	984.6	934.3	886.7	869.9	867.1	875.5	883.9
50°	5863.0	3035.0	1183.2	979.0	937.1	878.3	872.7	858.7	861.5	861.5	861.5
52.5°	6293.7	2984.6	1088.1	925.9	889.5	819.6	836.4	850.4	855.9	853.2	850.4
55°	6609.8	2895.1	1007.0	889.5	855.9	797.2	819.6	842.0	847.6	839.2	839.2
57.5°	6895.1	2769.2	942.7	861.5	833.6	783.2	808.4	830.8	825.2	822.4	819.6
60°	7222.4	2649.0	892.3	847.6	811.2	777.6	800.0	814.0	805.6	800.0	797.2
62.5°	7577.7	2531.5	855.9	847.6	794.4	774.8	791.6	797.2	780.4	774.8	774.8
65°	7742.7	2346.9	816.8	847.6	786.0	769.2	774.8	769.2	752.5	752.5	749.7
67.5°	7471.4	2042.0	766.4	836.4	797.2	760.8	749.7	741.3	721.7	721.7	716.1
70°	6721.7	1678.3	693.7	800.0	800.0	758.0	716.1	696.5	674.1	682.5	671.3
72.5°	5742.7	1331.5	604.2	738.5	783.2	755.2	679.7	649.0	629.4	637.8	621.0
75°	4651.8	1032.2	497.9	640.6	741.3	741.3	643.4	601.4	579.0	579.0	559.4
77.5°	2965.1	763.6	405.6	531.5	665.7	721.7	612.6	548.3	514.7	506.3	492.3
80°	1468.5	537.1	332.9	422.4	567.8	676.9	590.2	486.7	439.2	422.4	397.2
82.5°	780.4	372.0	265.7	330.1	453.1	609.8	562.2	419.6	360.8	335.7	307.7
85°	349.7	229.4	212.6	251.7	344.1	500.7	506.3	344.1	276.9	330.1	243.4
87.5°	128.7	103.5	103.5	128.7	198.6	209.8	358.0	221.0	176.2	120.3	95.1
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)