

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: P399463

Luminaire Tested: **ARCH-L-PA3-140-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399463
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-PA3-140-830-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17984 lumens
Efficiency: N/A
Efficacy: 125.8 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

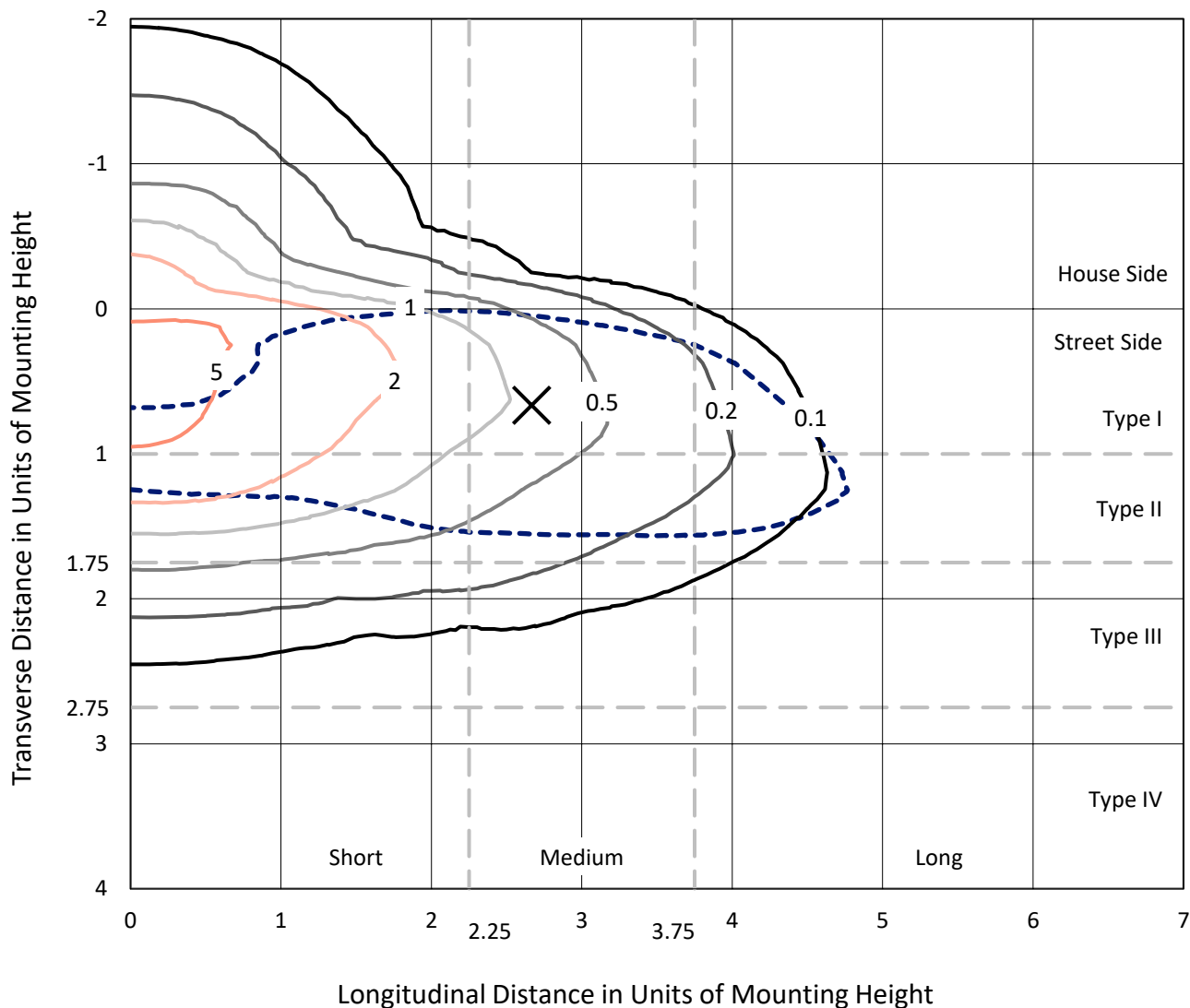
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399463
 CATALOG NUMBER: ARCH-L-PA3-140-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

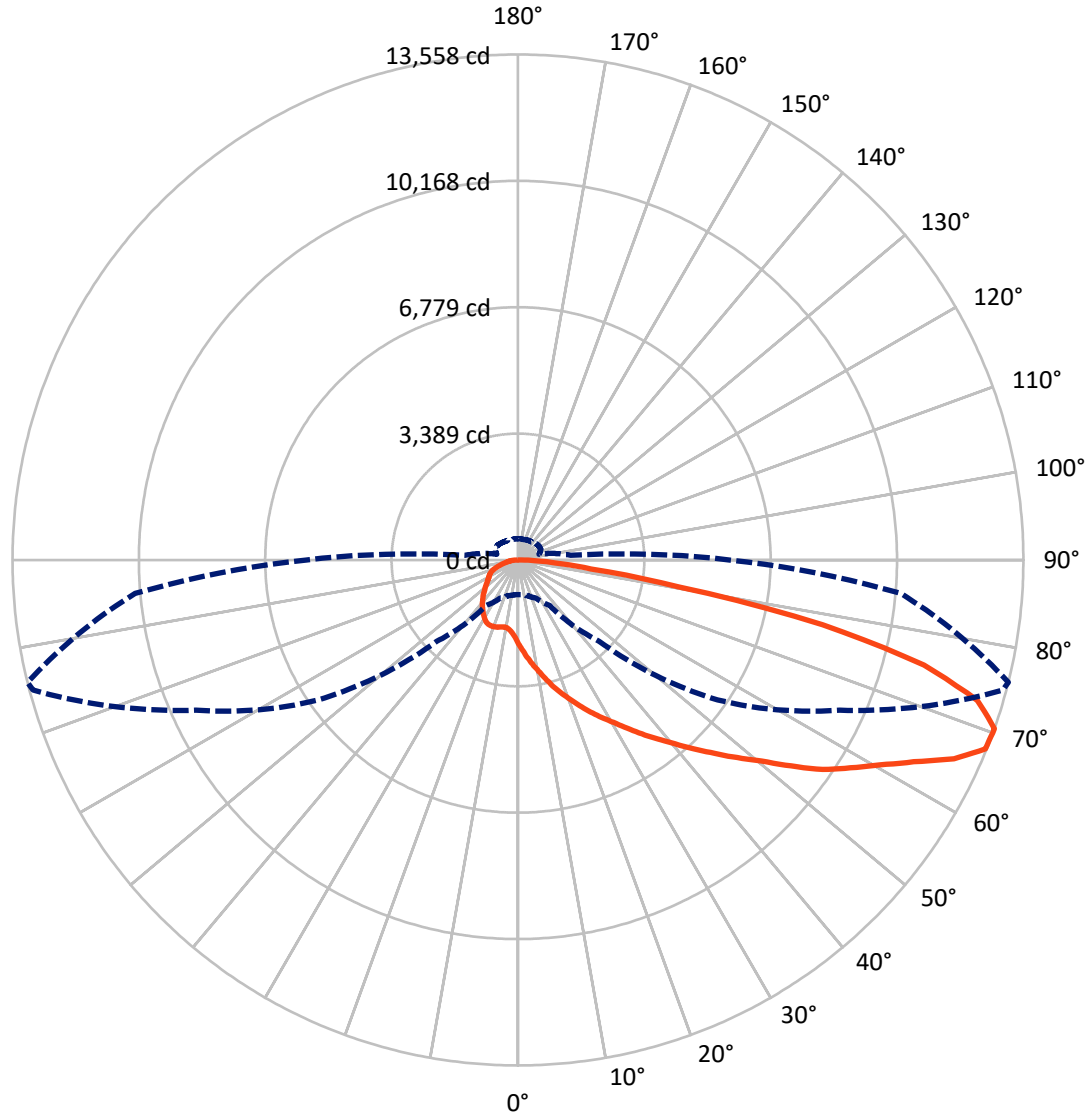
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P399463
CATALOG NUMBER: ARCH-L-PA3-140-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399463
 CATALOG NUMBER: ARCH-L-PA3-140-830-U-T2R

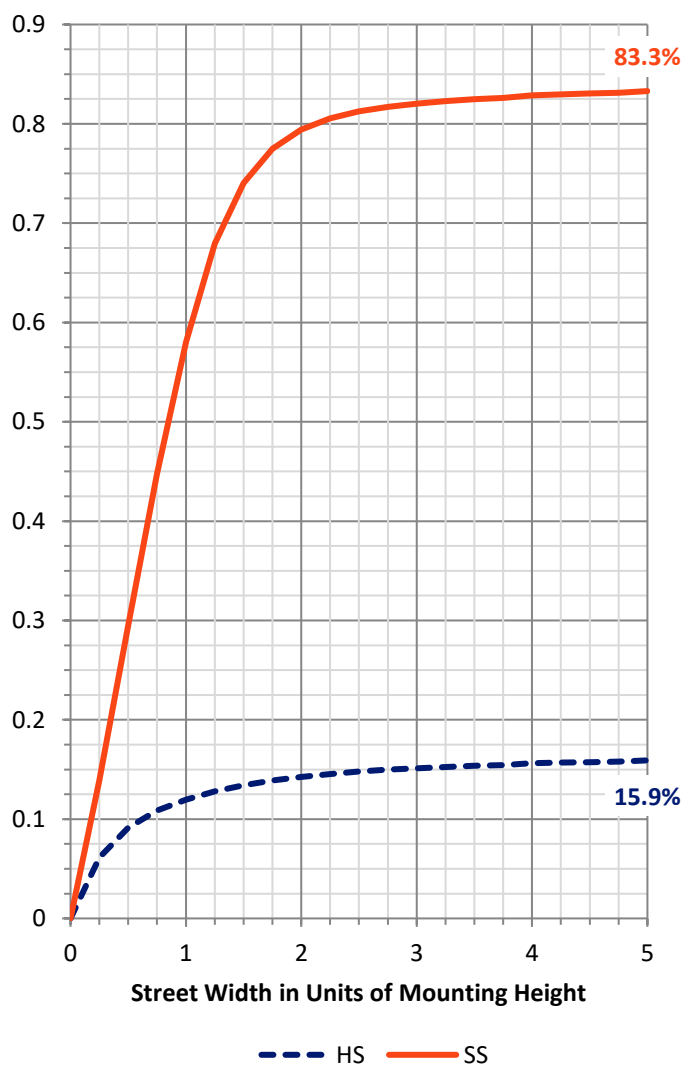
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2936.1	0.0	2936.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15047.9	0.0	15047.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	17984.0	0.0	17984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.3
10°-20°	794.2	4.4
20°-30°	1420.9	7.9
30°-40°	2298.5	12.8
40°-50°	3325.2	18.5
50°-60°	3805.9	21.2
60°-70°	3501.0	19.5
70°-80°	2165.0	12.0
80°-90°	439.6	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°	17984.0	100.0
0°-180°	17984.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399463

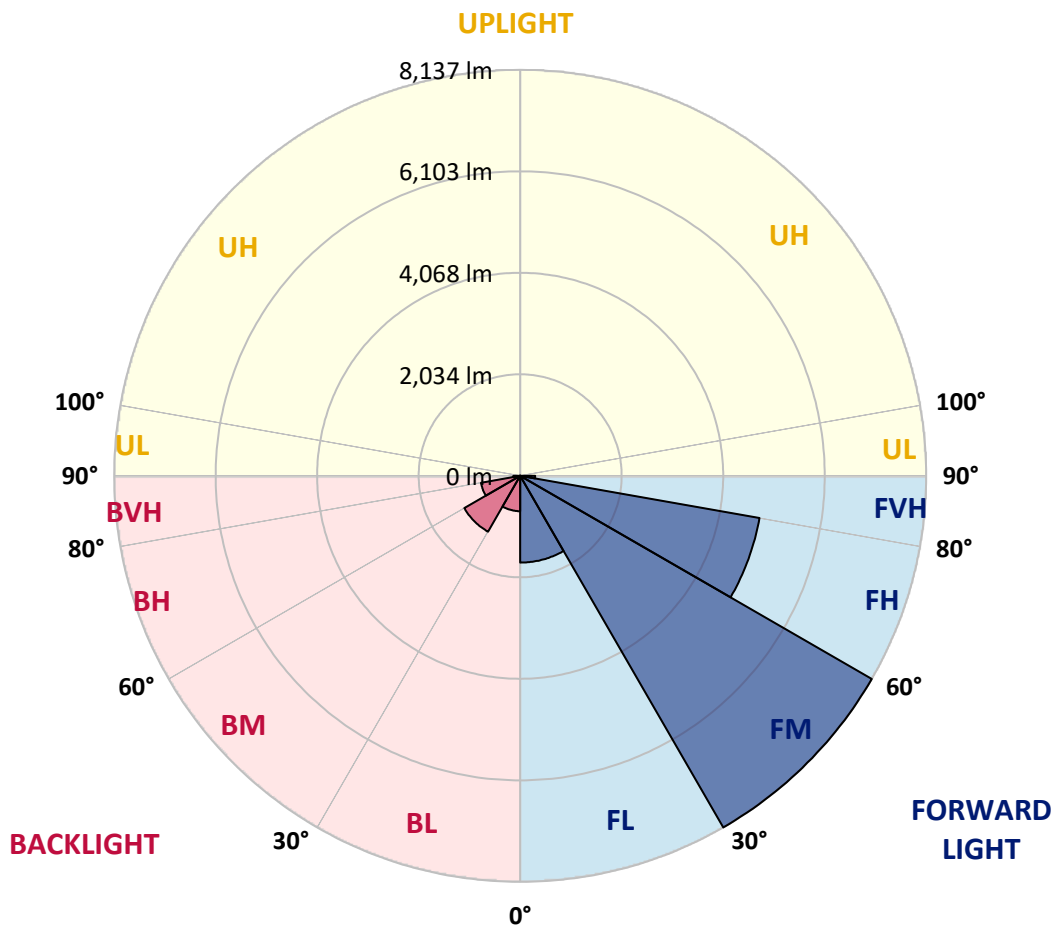
CATALOG NUMBER: ARCH-L-PA3-140-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.6	9.7			
FM (30°-60°)	8136.9	45.2			
FH (60°-80°)	4869.6	27.1			G2/5000
FVH (80°-90°)	301.8	1.7			G3/500
BL (0°-30°)	709.2	3.9	B2/1000		
BM (30°-60°)	1292.7	7.2	B2/2500		
BH (60°-80°)	796.4	4.4	B2/1000		G2/1000
BVH (80°-90°)	137.8	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





REPORT NUMBER: P399463

CATALOG NUMBER: ARCH-L-PA3-140-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0
2.5°	2866.2	2844.9	2842.6	2809.4	2778.7	2695.9	2636.8	2532.8	2428.7	2426.3	2322.3
5°	3313.2	3291.9	3280.1	3239.8	3187.8	3079.0	2972.6	2811.8	2634.4	2622.6	2426.3
7.5°	3615.9	3596.9	3573.3	3556.7	3507.1	3410.1	3280.1	3088.5	2844.9	2821.3	2546.9
10°	3819.2	3807.4	3802.7	3790.9	3760.1	3682.1	3556.7	3353.4	3055.4	3029.4	2674.6
12.5°	3906.7	3902.0	3923.3	3956.4	3968.2	3937.5	3816.9	3625.3	3287.1	3258.8	2828.4
15°	3805.1	3809.8	3864.2	3977.7	4098.3	4164.5	4093.6	3906.7	3549.6	3509.4	3008.1
17.5°	3757.8	3764.8	3802.7	3911.5	4081.7	4287.5	4320.6	4174.0	3802.7	3745.9	3197.3
20°	3840.5	3850.0	3878.4	3963.5	4081.7	4301.7	4474.3	4429.4	4051.0	3991.9	3379.4
22.5°	4051.0	4062.8	4060.5	4114.8	4195.3	4346.6	4559.4	4670.6	4311.1	4244.9	3568.6
25°	4500.3	4490.9	4410.5	4384.4	4405.7	4502.7	4673.0	4902.3	4583.1	4516.9	3767.2
27.5°	5110.4	5098.6	4952.0	4819.6	4701.3	4743.9	4833.8	5089.2	4859.8	4784.1	3956.4
30°	5763.1	5749.0	5578.7	5363.5	5101.0	5039.5	5027.7	5252.3	5138.8	5058.4	4157.4
32.5°	6399.3	6387.5	6205.4	5954.7	5592.9	5408.4	5294.9	5434.4	5455.7	5377.7	4377.3
35°	6978.7	6978.7	6822.6	6524.6	6115.5	5836.5	5649.6	5659.1	5819.9	5730.0	4628.0
37.5°	7494.2	7491.9	7321.6	7028.3	6635.8	6316.5	6084.8	5931.1	6167.5	6089.5	4890.5
40°	7903.3	7886.8	7761.5	7506.0	7111.1	6794.2	6560.1	6250.3	6555.4	6484.4	5169.6
42.5°	8201.3	8191.9	8106.7	7884.4	7508.4	7210.4	7049.6	6652.3	6995.2	6924.3	5495.9
45°	8317.2	8336.1	8336.1	8125.6	7827.7	7555.7	7484.8	7094.6	7470.6	7399.6	5845.9
47.5°	8130.4	8180.0	8281.7	8295.9	8033.4	7849.0	7872.6	7539.2	7960.1	7922.3	6229.0
50°	7546.2	7638.5	7860.8	8262.8	8116.2	8073.6	8203.7	7993.2	8485.1	8473.3	6694.9
52.5°	6039.8	6264.5	6957.4	7678.7	8059.4	8177.7	8532.4	8504.0	9161.4	9180.4	7302.7
55°	4632.7	4717.9	5519.6	6746.9	7711.8	8144.6	8752.3	9003.0	9894.5	9918.2	7860.8
57.5°	3745.9	3802.7	4240.2	5519.6	6919.6	7964.8	8925.0	9293.9	10457.4	10518.9	8357.4
60°	2967.9	3050.7	3343.9	4223.6	5810.4	7532.1	9045.6	9617.9	11062.8	11155.0	8951.0
62.5°	2206.4	2246.6	2523.3	3128.7	4599.6	6754.0	8981.7	9970.2	11805.4	11916.5	9665.2
65°	1570.3	1605.7	1802.0	2225.3	3400.7	5701.7	8610.4	10232.7	12737.1	12850.6	10384.1
67.5°	1175.3	1189.5	1300.7	1556.1	2291.5	4429.4	7858.4	10187.8	13418.2	13519.9	10672.6
70°	929.4	934.1	988.5	1125.7	1489.9	3083.8	6541.2	9528.0	13467.8	13557.7	10308.4
72.5°	770.9	768.6	799.3	865.5	1038.2	1951.0	4845.6	8303.0	12829.3	12890.8	9291.5
75°	636.1	640.9	662.2	700.0	792.2	1286.5	3140.5	6624.0	11318.2	11252.0	7796.9
77.5°	534.5	532.1	541.6	574.7	640.9	924.7	1839.9	4786.5	8388.1	8355.0	5117.5
80°	430.4	435.1	449.3	477.7	539.2	704.7	1087.8	2986.8	4500.3	4379.7	2445.3
82.5°	288.5	333.4	361.8	394.9	465.9	520.3	690.5	1518.2	2012.5	1981.7	1109.1
85°	137.2	182.1	269.6	307.4	378.4	326.3	468.2	723.6	1007.4	995.6	399.7
87.5°	28.4	28.4	144.3	172.6	234.1	139.5	260.1	314.5	487.2	456.4	163.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399463

CATALOG NUMBER: ARCH-L-PA3-140-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0	2249.0
2.5°	2260.8	2196.9	2069.2	1967.6	1863.5	1804.4	1731.1	1695.6	1688.5	1669.6	1683.8
5°	2301.0	2175.7	1934.5	1776.0	1669.6	1617.6	1591.5	1582.1	1579.7	1575.0	1575.0
7.5°	2355.4	2163.8	1849.3	1688.5	1619.9	1603.4	1610.5	1624.7	1627.0	1631.7	1629.4
10°	2421.6	2166.2	1802.0	1667.2	1634.1	1636.5	1660.1	1679.0	1688.5	1695.6	1693.2
12.5°	2513.8	2194.6	1794.9	1681.4	1667.2	1676.7	1700.3	1719.2	1728.7	1731.1	1731.1
15°	2634.4	2253.7	1811.5	1712.2	1700.3	1707.4	1721.6	1728.7	1731.1	1728.7	1728.7
17.5°	2766.9	2324.7	1835.1	1731.1	1712.2	1705.1	1700.3	1693.2	1679.0	1669.6	1669.6
20°	2894.6	2388.5	1847.0	1728.7	1695.6	1667.2	1638.8	1603.4	1579.7	1560.8	1560.8
22.5°	3022.3	2447.6	1847.0	1702.7	1650.7	1596.3	1537.2	1480.4	1444.9	1421.3	1421.3
25°	3157.1	2504.4	1832.8	1657.8	1579.7	1501.7	1421.3	1350.3	1314.9	1291.2	1286.5
27.5°	3270.6	2537.5	1794.9	1593.9	1492.2	1392.9	1300.7	1227.4	1201.3	1180.1	1180.1
30°	3391.2	2558.8	1724.0	1511.1	1392.9	1279.4	1184.8	1125.7	1097.3	1066.5	1064.2
32.5°	3526.0	2573.0	1643.6	1423.6	1291.2	1170.6	1090.2	1042.9	981.4	948.3	943.6
35°	3682.1	2591.9	1558.4	1324.3	1189.5	1080.7	1033.4	955.4	896.3	867.9	865.5
37.5°	3847.6	2606.1	1466.2	1236.8	1097.3	1021.6	974.3	882.1	830.1	787.5	782.8
40°	4022.6	2606.1	1371.6	1151.7	1024.0	995.6	905.7	823.0	735.5	714.2	709.5
42.5°	4216.5	2601.3	1277.0	1068.9	955.4	936.5	865.5	778.0	733.1	714.2	709.5
45°	4422.3	2584.8	1187.2	974.3	884.5	846.6	792.2	768.6	749.7	749.7	749.7
47.5°	4656.4	2570.6	1085.5	889.2	832.4	789.9	749.7	735.5	733.1	740.2	747.3
50°	4956.7	2565.9	1000.3	827.7	792.2	742.6	737.8	726.0	728.4	728.4	728.4
52.5°	5320.9	2523.3	919.9	782.8	752.0	692.9	707.1	718.9	723.6	721.3	718.9
55°	5588.1	2447.6	851.3	752.0	723.6	674.0	692.9	711.8	716.6	709.5	709.5
57.5°	5829.4	2341.2	797.0	728.4	704.7	662.2	683.4	702.4	697.6	695.3	692.9
60°	6106.1	2239.5	754.4	716.6	685.8	657.4	676.3	688.2	681.1	676.3	674.0
62.5°	6406.4	2140.2	723.6	716.6	671.6	655.1	669.3	674.0	659.8	655.1	655.1
65°	6545.9	1984.1	690.5	716.6	664.5	650.3	655.1	650.3	636.1	636.1	633.8
67.5°	6316.5	1726.3	648.0	707.1	674.0	643.2	633.8	626.7	610.1	610.1	605.4
70°	5682.7	1418.9	586.5	676.3	676.3	640.9	605.4	588.8	569.9	577.0	567.6
72.5°	4855.0	1125.7	510.8	624.3	662.2	638.5	574.7	548.6	532.1	539.2	525.0
75°	3932.8	872.6	420.9	541.6	626.7	626.7	543.9	508.4	489.5	489.5	473.0
77.5°	2506.7	645.6	342.9	449.3	562.8	610.1	517.9	463.5	435.1	428.0	416.2
80°	1241.5	454.1	281.4	357.1	480.1	572.3	499.0	411.5	371.3	357.1	335.8
82.5°	659.8	314.5	224.7	279.1	383.1	515.5	475.3	354.7	305.1	283.8	260.1
85°	295.6	193.9	179.7	212.8	290.9	423.3	428.0	290.9	234.1	279.1	205.7
87.5°	108.8	87.5	87.5	108.8	167.9	177.4	302.7	186.8	149.0	101.7	80.4
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)