

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: P399418

Luminaire Tested: **ARCH-L-PA3-140-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399418
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-PA3-140-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 20611 lumens
Efficiency: N/A
Efficacy: 144.1 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

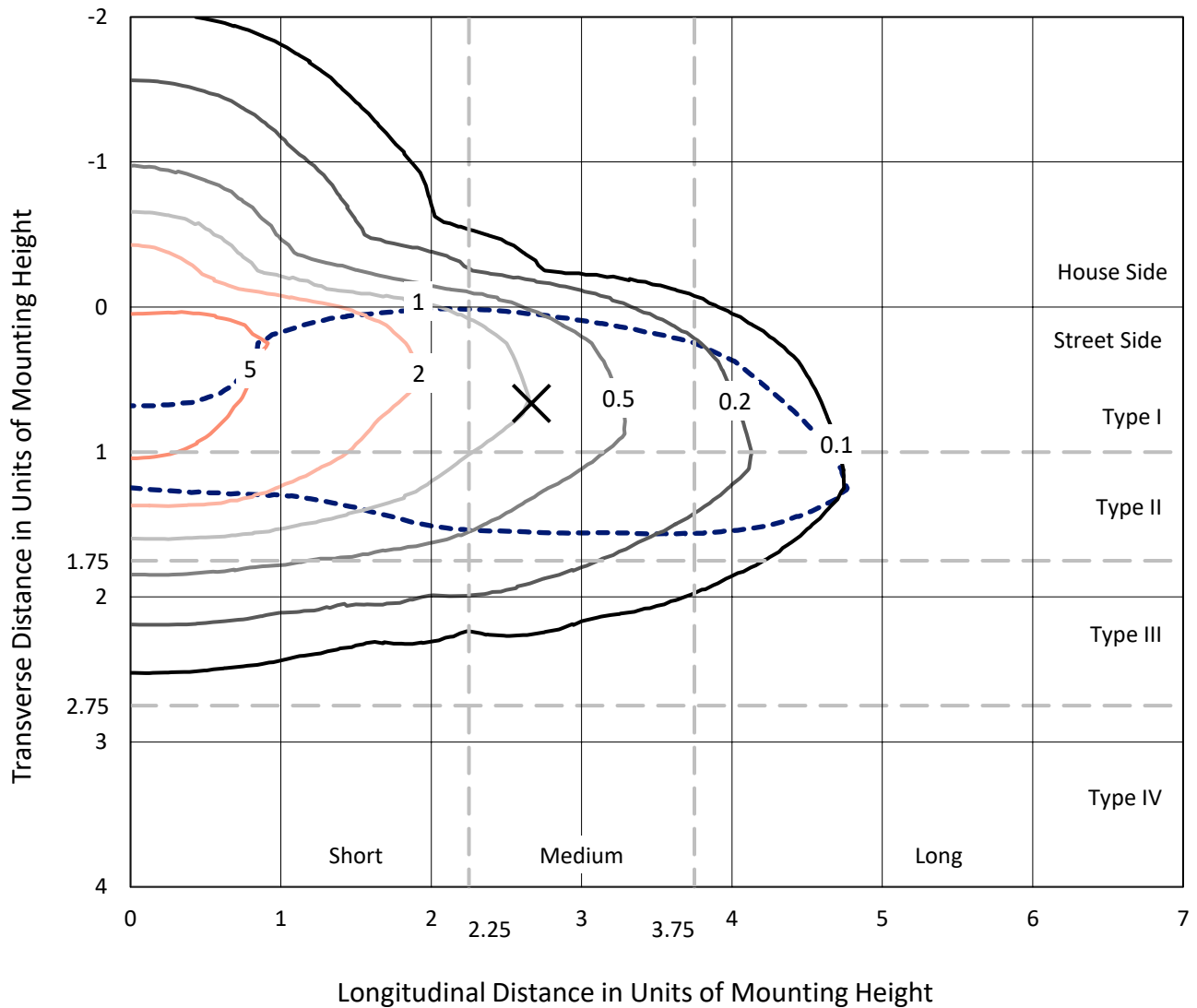
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

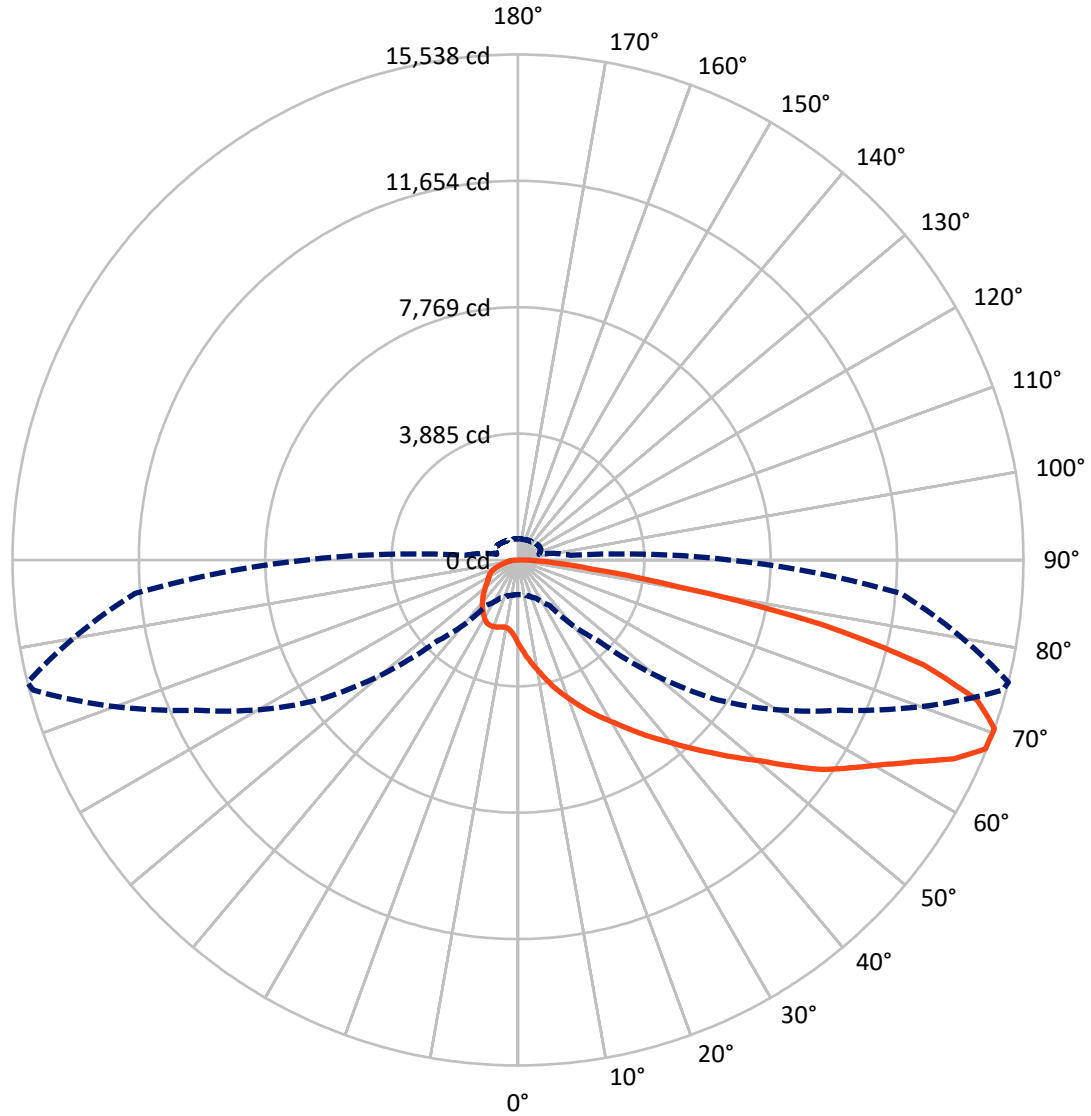
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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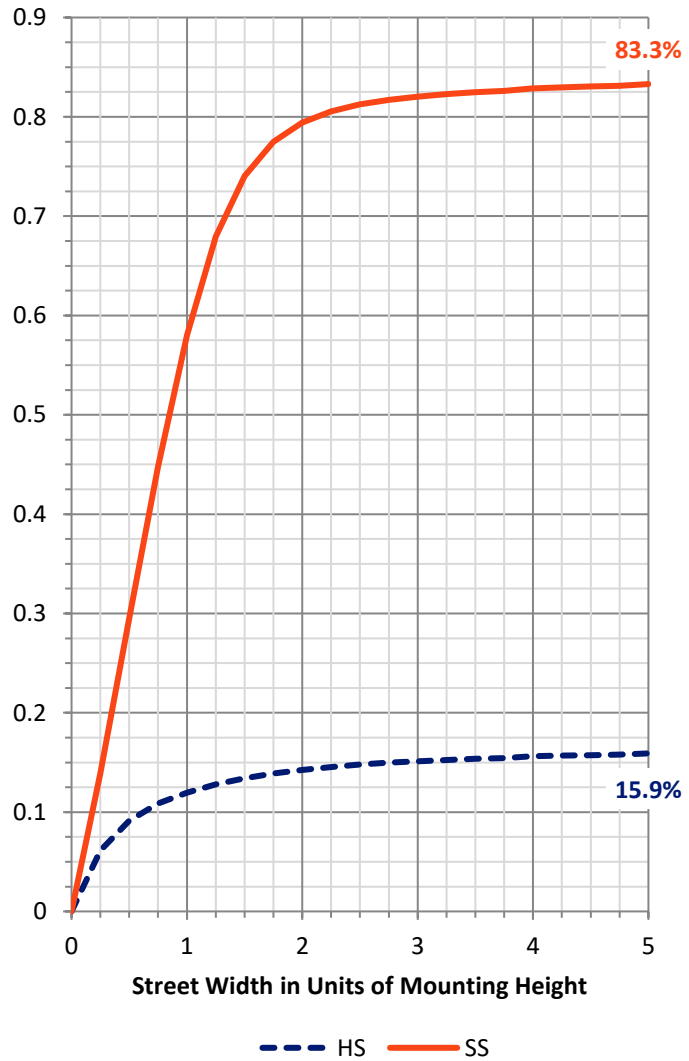
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3365.0	0.0	3365.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	17246.1	0.0	17246.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	20611.0	0.0	20611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	1.3
10°-20°	910.2	4.4
20°-30°	1628.5	7.9
30°-40°	2634.3	12.8
40°-50°	3810.9	18.5
50°-60°	4361.8	21.2
60°-70°	4012.4	19.5
70°-80°	2481.2	12.0
80°-90°	503.8	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°	20611.0	100.0
0°-180°	20611.0	100.0

Coefficient of Utilization



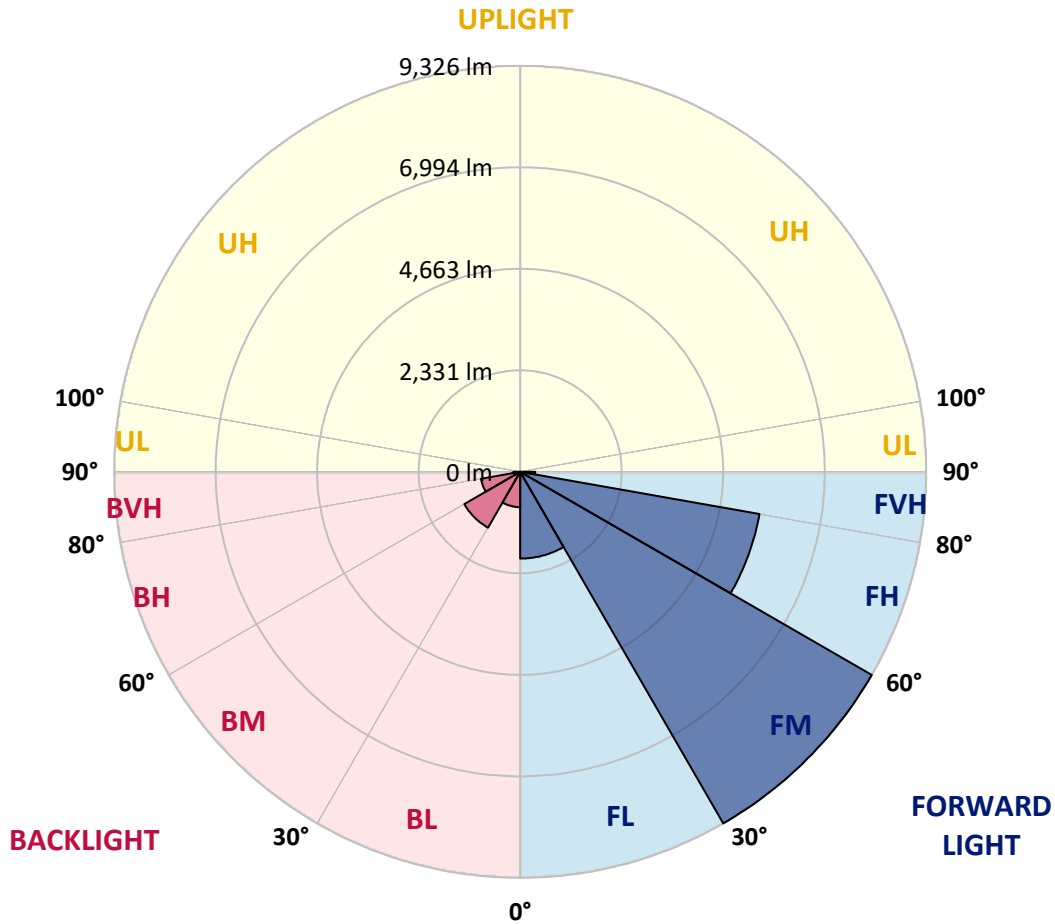
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1993.8	9.7			
FM (30°-60°)	9325.5	45.2			
FH (60°-80°)	5580.9	27.1			G3/7500
FVH (80°-90°)	345.9	1.7			G3/500
BL (0°-30°)	812.7	3.9	B2/1000		
BM (30°-60°)	1481.6	7.2	B2/2500		
BH (60°-80°)	912.7	4.4	B2/1000		G2/1000
BVH (80°-90°)	158.0	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°	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5
2.5°	3284.9	3260.5	3257.8	3219.8	3184.6	3089.7	3022.0	2902.7	2783.5	2780.8	2661.5
5°	3797.1	3772.7	3759.2	3713.1	3653.5	3528.8	3406.8	3222.5	3019.3	3005.7	2780.8
7.5°	4144.0	4122.4	4095.3	4076.3	4019.4	3908.3	3759.2	3539.6	3260.5	3233.4	2919.0
10°	4377.1	4363.6	4358.2	4344.6	4309.4	4219.9	4076.3	3843.2	3501.7	3471.9	3065.3
12.5°	4477.4	4472.0	4496.4	4534.3	4547.9	4512.6	4374.4	4154.9	3767.3	3734.8	3241.5
15°	4360.9	4366.3	4428.6	4558.7	4696.9	4772.8	4691.5	4477.4	4068.2	4022.1	3447.5
17.5°	4306.7	4314.8	4358.2	4482.8	4678.0	4913.8	4951.7	4783.7	4358.2	4293.1	3664.3
20°	4401.5	4412.4	4444.9	4542.5	4678.0	4930.0	5127.9	5076.4	4642.7	4575.0	3873.0
22.5°	4642.7	4656.3	4653.6	4715.9	4808.1	4981.5	5225.5	5352.8	4940.9	4865.0	4089.8
25°	5157.7	5146.9	5054.7	5024.9	5049.3	5160.4	5355.5	5618.4	5252.6	5176.7	4317.5
27.5°	5857.0	5843.4	5675.4	5523.6	5388.1	5436.9	5539.8	5832.6	5569.7	5482.9	4534.3
30°	6605.0	6588.7	6393.6	6147.0	5846.1	5775.6	5762.1	6019.6	5889.5	5797.3	4764.7
32.5°	7334.1	7320.5	7111.8	6824.5	6409.9	6198.5	6068.4	6228.3	6252.7	6163.2	5016.8
35°	7998.1	7998.1	7819.2	7477.7	7008.8	6689.0	6474.9	6485.7	6670.0	6567.1	5304.1
37.5°	8588.9	8586.2	8391.1	8055.0	7605.1	7239.2	6973.6	6797.4	7068.5	6979.0	5604.9
40°	9057.8	9038.8	8895.2	8602.5	8149.9	7786.7	7518.4	7163.3	7512.9	7431.6	5924.7
42.5°	9399.3	9388.5	9290.9	9036.1	8605.2	8263.7	8079.4	7624.1	8017.1	7935.8	6298.7
45°	9532.1	9553.8	9553.8	9312.6	8971.1	8659.4	8578.1	8130.9	8561.8	8480.5	6699.9
47.5°	9318.0	9374.9	9491.5	9507.7	9206.9	8995.5	9022.6	8640.4	9122.9	9079.5	7138.9
50°	8648.6	8754.3	9009.0	9469.8	9301.7	9253.0	9402.0	9160.8	9724.6	9711.0	7672.9
52.5°	6922.1	7179.6	7973.7	8800.3	9236.7	9372.2	9778.8	9746.2	10499.7	10521.4	8369.4
55°	5309.5	5407.0	6325.8	7732.5	8838.3	9334.3	10030.8	10318.1	11339.9	11367.0	9009.0
57.5°	4293.1	4358.2	4859.6	6325.8	7930.3	9128.3	10228.7	10651.5	11984.9	12055.4	9578.2
60°	3401.4	3496.3	3832.4	4840.6	6659.2	8632.3	10366.9	11022.8	12678.8	12784.5	10258.5
62.5°	2528.7	2574.8	2891.9	3585.7	5271.5	7740.6	10293.7	11426.6	13529.8	13657.2	11077.0
65°	1799.6	1840.3	2065.2	2550.4	3897.4	6534.5	9868.2	11727.5	14597.7	14727.8	11900.9
67.5°	1347.0	1363.3	1490.7	1783.4	2626.3	5076.4	9006.3	11676.0	15378.2	15494.8	12231.6
70°	1065.1	1070.6	1132.9	1290.1	1707.5	3534.2	7496.7	10919.8	15435.1	15538.1	11814.2
72.5°	883.6	880.8	916.1	992.0	1189.8	2236.0	5553.4	9515.9	14703.4	14773.8	10648.8
75°	729.1	734.5	758.9	802.2	907.9	1474.4	3599.3	7591.5	12971.5	12895.6	8935.9
77.5°	612.5	609.8	620.7	658.6	734.5	1059.7	2108.6	5485.6	9613.4	9575.5	5865.1
80°	493.3	498.7	515.0	547.5	617.9	807.7	1246.7	3423.1	5157.7	5019.5	2802.4
82.5°	330.7	382.2	414.7	452.6	533.9	596.3	791.4	1740.0	2306.5	2271.2	1271.1
85°	157.2	208.7	309.0	352.3	433.6	374.0	536.6	829.4	1154.6	1141.0	458.0
87.5°	32.5	32.5	165.3	197.9	268.3	159.9	298.1	360.5	558.3	523.1	187.0
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°	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5	2577.5
2.5°	2591.0	2517.9	2371.5	2255.0	2135.7	2068.0	1983.9	1943.3	1935.2	1913.5	1929.7
5°	2637.1	2493.5	2217.0	2035.4	1913.5	1853.8	1824.0	1813.2	1810.5	1805.1	1805.1
7.5°	2699.5	2479.9	2119.5	1935.2	1856.6	1837.6	1845.7	1862.0	1864.7	1870.1	1867.4
10°	2775.3	2482.6	2065.2	1910.8	1872.8	1875.5	1902.6	1924.3	1935.2	1943.3	1940.6
12.5°	2881.0	2515.2	2057.1	1927.0	1910.8	1921.6	1948.7	1970.4	1981.2	1983.9	1983.9
15°	3019.3	2582.9	2076.1	1962.3	1948.7	1956.8	1973.1	1981.2	1983.9	1981.2	1981.2
17.5°	3171.0	2664.2	2103.2	1983.9	1962.3	1954.1	1948.7	1940.6	1924.3	1913.5	1913.5
20°	3317.4	2737.4	2116.7	1981.2	1943.3	1910.8	1878.2	1837.6	1810.5	1788.8	1788.8
22.5°	3463.8	2805.2	2116.7	1951.4	1891.8	1829.5	1761.7	1696.6	1656.0	1628.9	1628.9
25°	3618.2	2870.2	2100.5	1899.9	1810.5	1721.0	1628.9	1547.6	1506.9	1479.8	1474.4
27.5°	3748.3	2908.2	2057.1	1826.7	1710.2	1596.4	1490.7	1406.6	1376.8	1352.4	1352.4
30°	3886.6	2932.5	1975.8	1731.9	1596.4	1466.3	1357.9	1290.1	1257.6	1222.3	1219.6
32.5°	4041.1	2948.8	1883.7	1631.6	1479.8	1341.6	1249.4	1195.2	1124.8	1086.8	1081.4
35°	4219.9	2970.5	1786.1	1517.8	1363.3	1238.6	1184.4	1095.0	1027.2	994.7	992.0
37.5°	4409.7	2986.7	1680.4	1417.5	1257.6	1170.8	1116.6	1010.9	951.3	902.5	897.1
40°	4610.2	2986.7	1572.0	1319.9	1173.6	1141.0	1038.0	943.2	842.9	818.5	813.1
42.5°	4832.5	2981.3	1463.6	1225.1	1095.0	1073.3	992.0	891.7	840.2	818.5	813.1
45°	5068.3	2962.4	1360.6	1116.6	1013.7	970.3	907.9	880.8	859.2	859.2	859.2
47.5°	5336.6	2946.1	1244.0	1019.1	954.0	905.2	859.2	842.9	840.2	848.3	856.5
50°	5680.8	2940.7	1146.5	948.6	907.9	851.0	845.6	832.1	834.8	834.8	834.8
52.5°	6098.2	2891.9	1054.3	897.1	861.9	794.1	810.4	823.9	829.4	826.6	823.9
55°	6404.4	2805.2	975.7	861.9	829.4	772.4	794.1	815.8	821.2	813.1	813.1
57.5°	6680.9	2683.2	913.4	834.8	807.7	758.9	783.3	805.0	799.5	796.8	794.1
60°	6998.0	2566.7	864.6	821.2	786.0	753.5	775.1	788.7	780.6	775.1	772.4
62.5°	7342.2	2452.8	829.4	821.2	769.7	750.8	767.0	772.4	756.2	750.8	750.8
65°	7502.1	2273.9	791.4	821.2	761.6	745.3	750.8	745.3	729.1	729.1	726.4
67.5°	7239.2	1978.5	742.6	810.4	772.4	737.2	726.4	718.2	699.3	699.3	693.8
70°	6512.8	1626.2	672.2	775.1	775.1	734.5	693.8	674.9	653.2	661.3	650.5
72.5°	5564.2	1290.1	585.4	715.5	758.9	731.8	658.6	628.8	609.8	617.9	601.7
75°	4507.2	1000.1	482.4	620.7	718.2	718.2	623.4	582.7	561.0	561.0	542.1
77.5°	2872.9	739.9	393.0	515.0	645.1	699.3	593.6	531.2	498.7	490.6	477.0
80°	1422.9	520.4	322.5	409.3	550.2	655.9	571.9	471.6	425.5	409.3	384.9
82.5°	756.2	360.5	257.5	319.8	439.1	590.8	544.8	406.5	349.6	325.2	298.1
85°	338.8	222.2	206.0	243.9	333.4	485.1	490.6	333.4	268.3	319.8	235.8
87.5°	124.7	100.3	100.3	124.7	192.4	203.3	346.9	214.1	170.7	116.5	92.2
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)