

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: P397555

Luminaire Tested: **ARCH-S-PA1-100-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397555
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-S-PA1-100-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11850 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G2

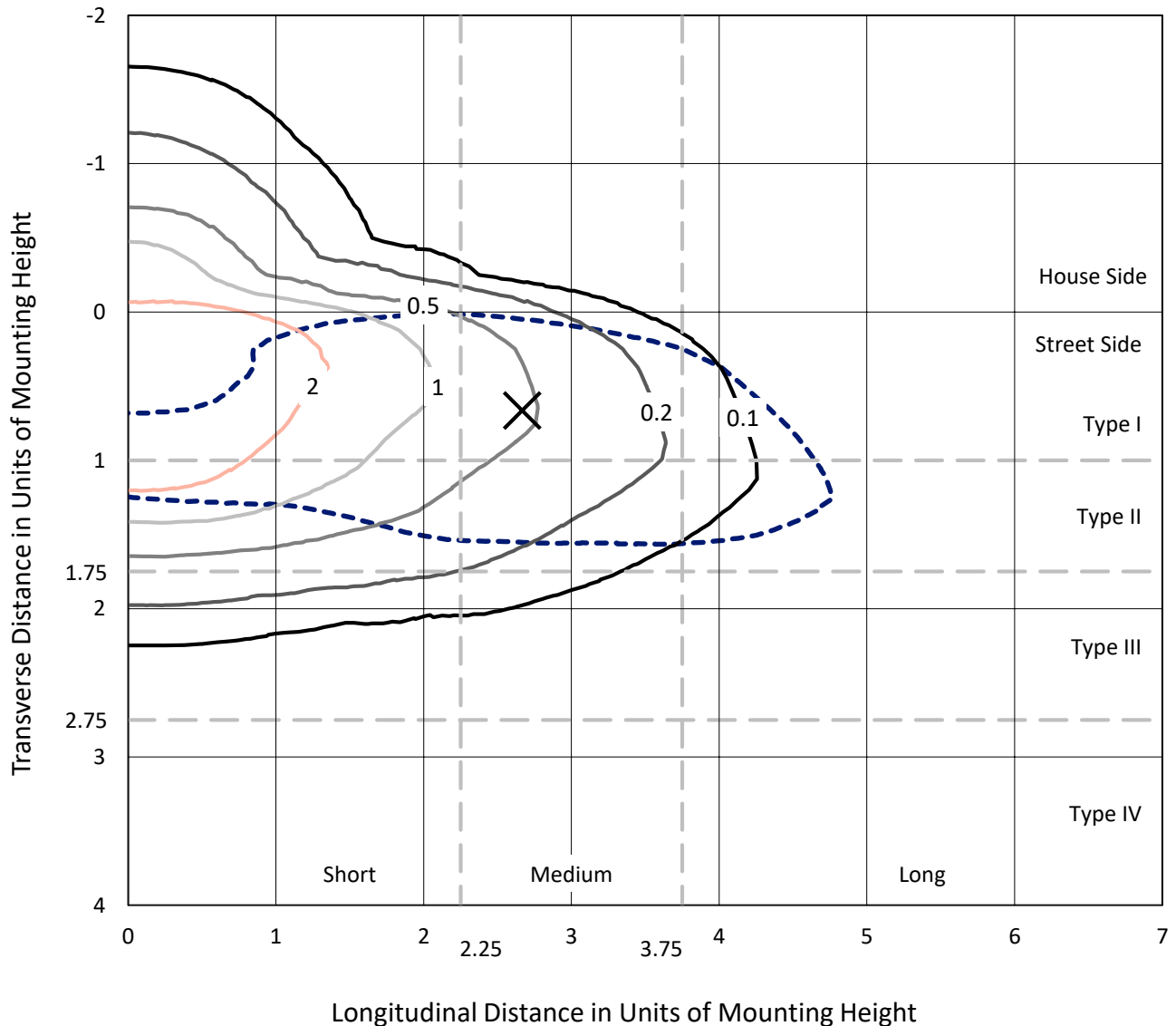
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

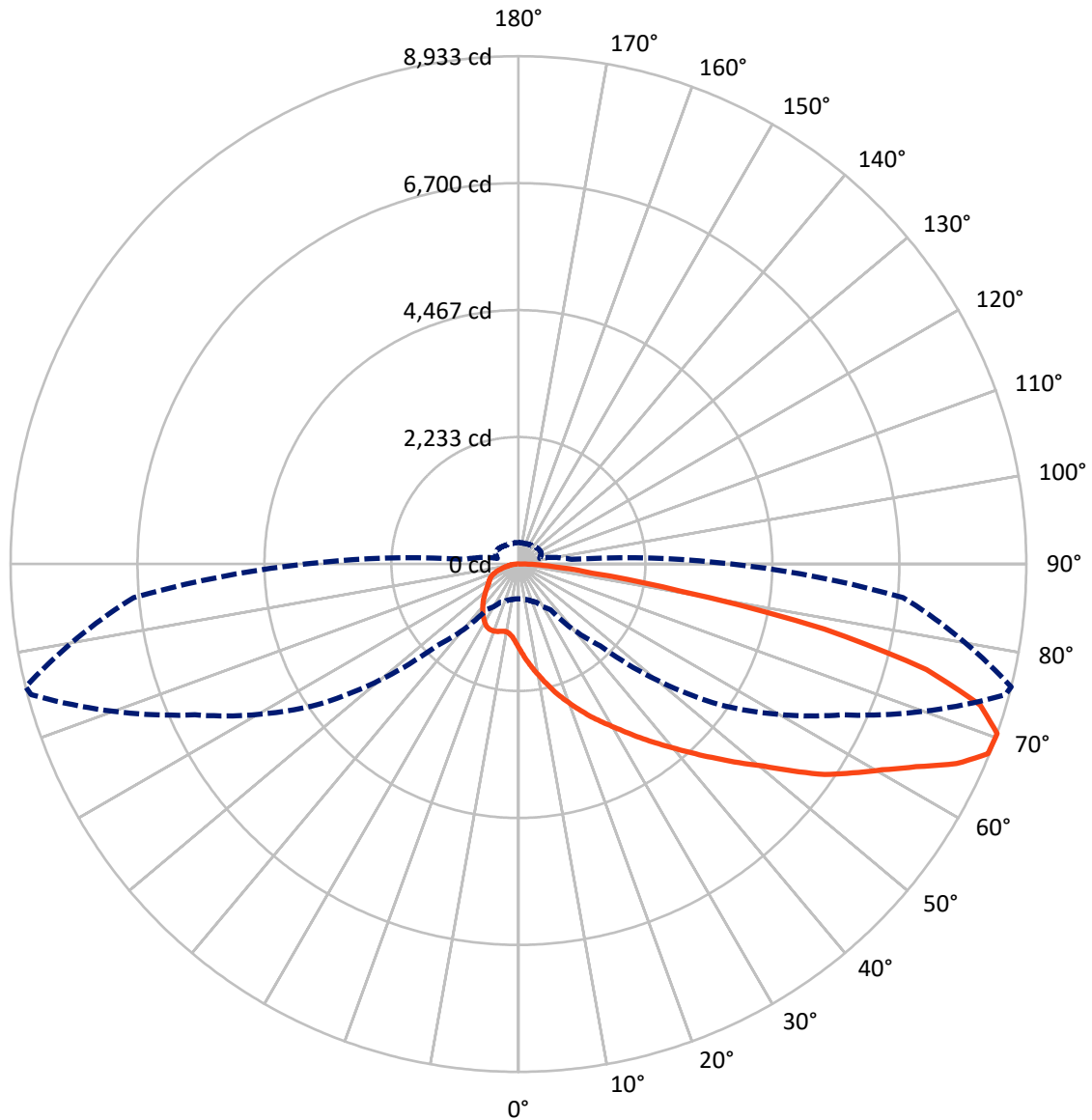
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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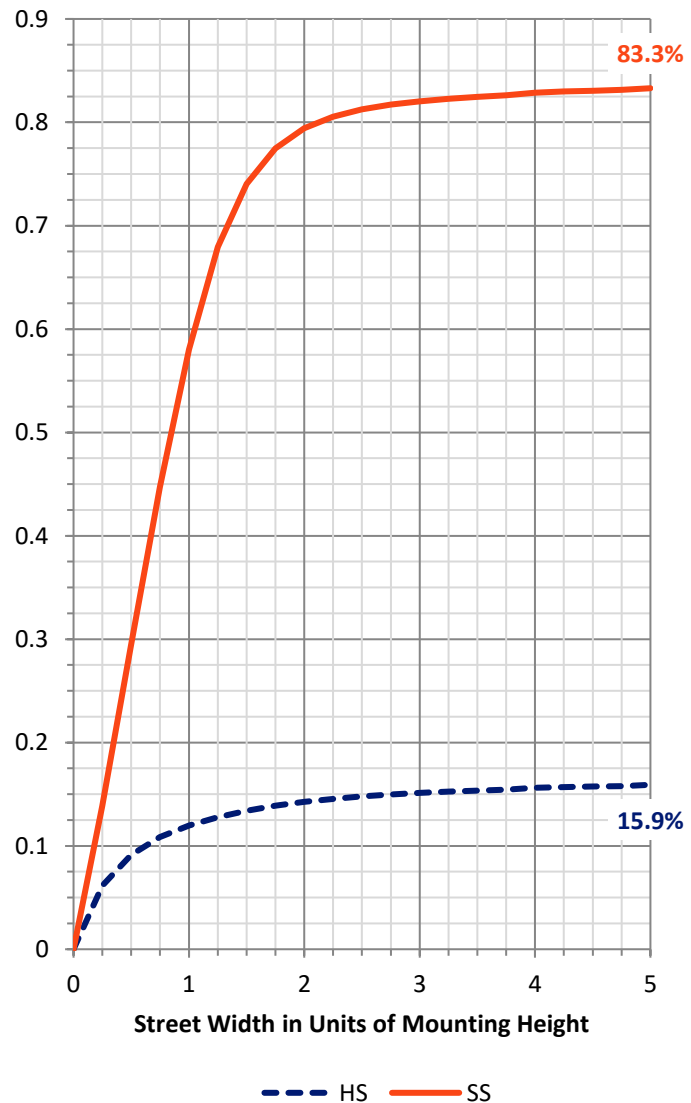
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.6	0.0	1934.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9915.4	0.0	9915.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	11850.0	0.0	11850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	1.3
10°-20°	523.3	4.4
20°-30°	936.3	7.9
30°-40°	1514.6	12.8
40°-50°	2191.0	18.5
50°-60°	2507.8	21.2
60°-70°	2306.9	19.5
70°-80°	1426.5	12.0
80°-90°	289.7	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°	11850.0	100.0
0°-180°	11850.0	100.0

Coefficient of Utilization



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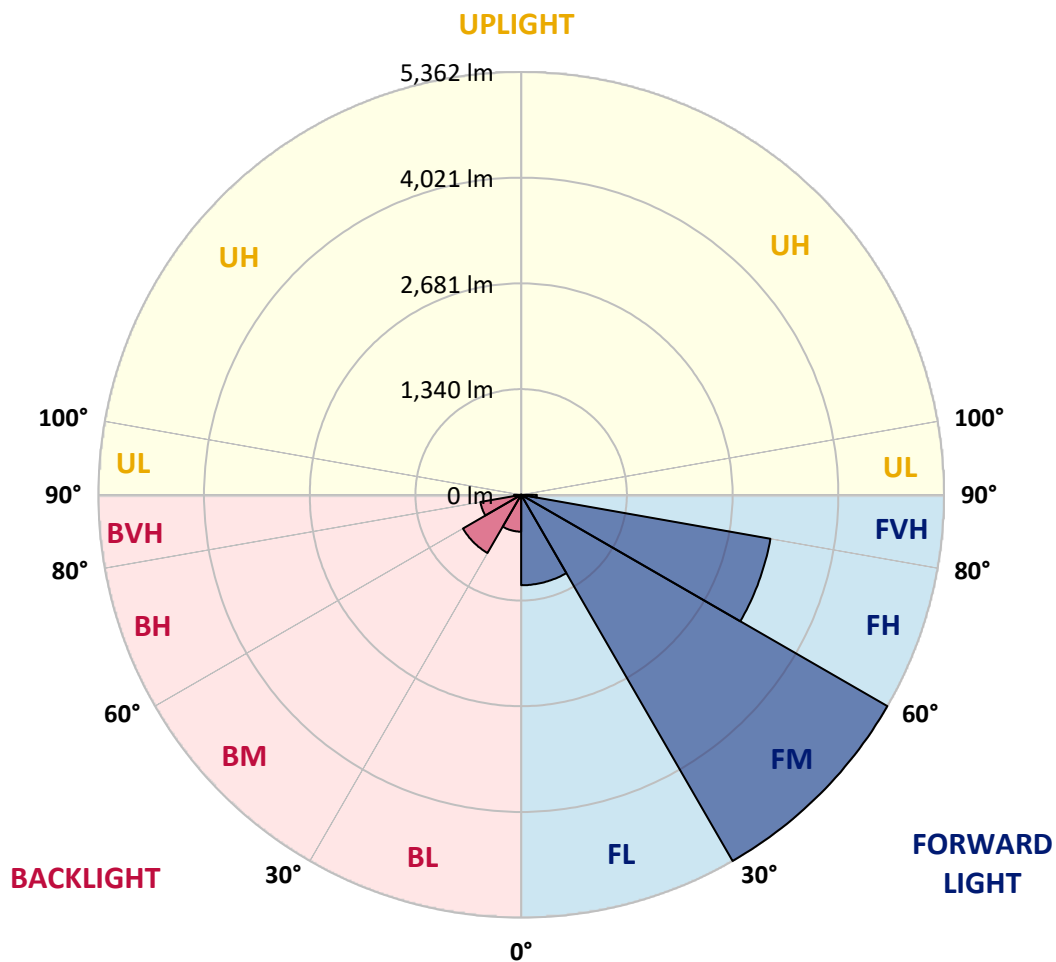
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.3	9.7			
FM	(30°-60°)	5361.6	45.2			
FH	(60°-80°)	3208.7	27.1			G2/5000
FVH	(80°-90°)	198.9	1.7			G2/225
BL	(0°-30°)	467.3	3.9	B1/500		
BM	(30°-60°)	851.8	7.2	B1/1000		
BH	(60°-80°)	524.7	4.4	B2/1000		G2/1000
BVH	(80°-90°)	90.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9
2.5°	1888.6	1874.6	1873.0	1851.2	1830.9	1776.4	1737.4	1668.9	1600.3	1598.8	1530.2
5°	2183.1	2169.1	2161.3	2134.8	2100.5	2028.8	1958.7	1852.8	1735.9	1728.1	1598.8
7.5°	2382.6	2370.1	2354.5	2343.6	2310.9	2247.0	2161.3	2035.1	1874.6	1859.0	1678.2
10°	2516.6	2508.8	2505.7	2497.9	2477.6	2426.2	2343.6	2209.6	2013.3	1996.1	1762.4
12.5°	2574.2	2571.1	2585.1	2606.9	2614.7	2594.5	2515.0	2388.8	2166.0	2147.3	1863.7
15°	2507.2	2510.3	2546.2	2621.0	2700.4	2744.1	2697.3	2574.2	2338.9	2312.4	1982.1
17.5°	2476.1	2480.7	2505.7	2577.3	2689.5	2825.1	2846.9	2750.3	2505.7	2468.3	2106.8
20°	2530.6	2536.8	2555.5	2611.6	2689.5	2834.5	2948.2	2918.6	2669.3	2630.3	2226.7
22.5°	2669.3	2677.1	2675.5	2711.4	2764.3	2864.1	3004.3	3077.5	2840.7	2797.1	2351.4
25°	2965.3	2959.1	2906.1	2889.0	2903.0	2966.9	3079.1	3230.2	3019.9	2976.3	2482.3
27.5°	3367.4	3359.6	3263.0	3175.7	3097.8	3125.8	3185.1	3353.3	3202.2	3152.3	2606.9
30°	3797.4	3788.1	3675.9	3534.1	3361.1	3320.6	3312.8	3460.9	3386.1	3333.1	2739.4
32.5°	4216.6	4208.8	4088.8	3923.7	3685.3	3563.7	3488.9	3580.9	3594.9	3543.5	2884.3
35°	4598.4	4598.4	4495.5	4299.2	4029.6	3845.8	3722.7	3728.9	3834.8	3775.6	3049.5
37.5°	4938.1	4936.5	4824.3	4631.1	4372.4	4162.1	4009.4	3908.1	4063.9	4012.5	3222.5
40°	5207.7	5196.8	5114.2	4945.9	4685.6	4476.8	4322.6	4118.4	4319.5	4272.7	3406.3
42.5°	5404.0	5397.8	5341.7	5195.2	4947.4	4751.1	4645.1	4383.3	4609.3	4562.5	3621.4
45°	5480.4	5492.8	5492.8	5354.1	5157.8	4978.6	4931.9	4674.7	4922.5	4875.8	3852.0
47.5°	5357.3	5390.0	5457.0	5466.3	5293.4	5171.8	5187.4	4967.7	5245.1	5220.1	4104.4
50°	4972.4	5033.1	5179.6	5444.5	5347.9	5319.9	5405.6	5266.9	5591.0	5583.2	4411.4
52.5°	3979.8	4127.8	4584.4	5059.6	5310.5	5388.4	5622.2	5603.5	6036.7	6049.1	4811.9
55°	3052.6	3108.7	3636.9	4445.7	5081.4	5366.6	5767.1	5932.2	6519.7	6535.3	5179.6
57.5°	2468.3	2505.7	2793.9	3636.9	4559.4	5248.2	5880.8	6123.9	6890.6	6931.1	5506.8
60°	1955.6	2010.1	2203.4	2783.0	3828.6	4963.0	5960.3	6337.4	7289.5	7350.3	5898.0
62.5°	1453.8	1480.3	1662.6	2061.6	3030.8	4450.4	5918.2	6569.6	7778.8	7852.0	6368.6
65°	1034.7	1058.0	1187.4	1466.3	2240.8	3756.9	5673.6	6742.5	8392.7	8467.5	6842.3
67.5°	774.4	783.8	857.0	1025.3	1509.9	2918.6	5178.1	6712.9	8841.5	8908.5	7032.4
70°	612.4	615.5	651.3	741.7	981.7	2032.0	4310.1	6278.2	8874.2	8933.4	6792.4
72.5°	508.0	506.4	526.7	570.3	684.1	1285.6	3192.8	5471.0	8453.5	8494.0	6122.4
75°	419.2	422.3	436.3	461.2	522.0	847.7	2069.4	4364.7	7457.8	7414.1	5137.5
77.5°	352.2	350.6	356.8	378.7	422.3	609.3	1212.3	3153.9	5527.1	5505.3	3372.0
80°	283.6	286.7	296.1	314.8	355.3	464.4	716.8	1968.1	2965.3	2885.9	1611.2
82.5°	190.1	219.7	238.4	260.2	307.0	342.8	455.0	1000.4	1326.1	1305.8	730.8
85°	90.4	120.0	177.6	202.6	249.3	215.0	308.5	476.8	663.8	656.0	263.3
87.5°	18.7	18.7	95.1	113.8	154.3	91.9	171.4	207.2	321.0	300.7	107.5
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°	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9
2.5°	1489.7	1447.6	1363.5	1296.5	1227.9	1188.9	1140.6	1117.3	1112.6	1100.1	1109.5
5°	1516.2	1433.6	1274.6	1170.2	1100.1	1065.8	1048.7	1042.5	1040.9	1037.8	1037.8
7.5°	1552.0	1425.8	1218.5	1112.6	1067.4	1056.5	1061.2	1070.5	1072.1	1075.2	1073.6
10°	1595.6	1427.4	1187.4	1098.6	1076.7	1078.3	1093.9	1106.4	1112.6	1117.3	1115.7
12.5°	1656.4	1446.1	1182.7	1107.9	1098.6	1104.8	1120.4	1132.8	1139.1	1140.6	1140.6
15°	1735.9	1485.0	1193.6	1128.2	1120.4	1125.1	1134.4	1139.1	1140.6	1139.1	1139.1
17.5°	1823.1	1531.8	1209.2	1140.6	1128.2	1123.5	1120.4	1115.7	1106.4	1100.1	1100.1
20°	1907.3	1573.8	1217.0	1139.1	1117.3	1098.6	1079.9	1056.5	1040.9	1028.4	1028.4
22.5°	1991.4	1612.8	1217.0	1121.9	1087.7	1051.8	1012.9	975.5	952.1	936.5	936.5
25°	2080.3	1650.2	1207.6	1092.3	1040.9	989.5	936.5	889.8	866.4	850.8	847.7
27.5°	2155.1	1672.0	1182.7	1050.3	983.3	917.8	857.0	808.7	791.6	777.6	777.6
30°	2234.5	1686.0	1136.0	995.7	917.8	843.0	780.7	741.7	723.0	702.8	701.2
32.5°	2323.3	1695.4	1083.0	938.1	850.8	771.3	718.4	687.2	646.7	624.9	621.7
35°	2426.2	1707.8	1026.9	872.6	783.8	712.1	681.0	629.5	590.6	571.9	570.3
37.5°	2535.3	1717.2	966.1	815.0	723.0	673.2	642.0	581.2	546.9	518.9	515.8
40°	2650.6	1717.2	903.8	758.9	674.7	656.0	596.8	542.3	484.6	470.6	467.5
42.5°	2778.4	1714.1	841.5	704.3	629.5	617.1	570.3	512.7	483.1	470.6	467.5
45°	2913.9	1703.2	782.2	642.0	582.8	557.9	522.0	506.4	494.0	494.0	494.0
47.5°	3068.2	1693.8	715.2	585.9	548.5	520.5	494.0	484.6	483.1	487.7	492.4
50°	3266.1	1690.7	659.1	545.4	522.0	489.3	486.2	478.4	479.9	479.9	479.9
52.5°	3506.1	1662.6	606.2	515.8	495.5	456.6	465.9	473.7	476.8	475.3	473.7
55°	3682.1	1612.8	561.0	495.5	476.8	444.1	456.6	469.0	472.1	467.5	467.5
57.5°	3841.1	1542.7	525.1	479.9	464.4	436.3	450.3	462.8	459.7	458.1	456.6
60°	4023.4	1475.7	497.1	472.1	451.9	433.2	445.7	453.4	448.8	445.7	444.1
62.5°	4221.3	1410.2	476.8	472.1	442.5	431.6	441.0	444.1	434.8	431.6	431.6
65°	4313.2	1307.4	455.0	472.1	437.9	428.5	431.6	428.5	419.2	419.2	417.6
67.5°	4162.1	1137.5	427.0	465.9	444.1	423.8	417.6	412.9	402.0	402.0	398.9
70°	3744.5	934.9	386.4	445.7	445.7	422.3	398.9	388.0	375.5	380.2	374.0
72.5°	3199.1	741.7	336.6	411.4	436.3	420.7	378.7	361.5	350.6	355.3	345.9
75°	2591.4	575.0	277.4	356.8	412.9	412.9	358.4	335.0	322.6	322.6	311.6
77.5°	1651.7	425.4	225.9	296.1	370.9	402.0	341.3	305.4	286.7	282.0	274.3
80°	818.1	299.2	185.4	235.3	316.3	377.1	328.8	271.1	244.6	235.3	221.3
82.5°	434.8	207.2	148.0	183.9	252.4	339.7	313.2	233.7	201.0	187.0	171.4
85°	194.8	127.8	118.4	140.2	191.7	278.9	282.0	191.7	154.3	183.9	135.6
87.5°	71.7	57.7	57.7	71.7	110.6	116.9	199.5	123.1	98.2	67.0	53.0
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)