

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: P573563

Luminaire Tested: **ARCH-S-PA2-90-740-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12883 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

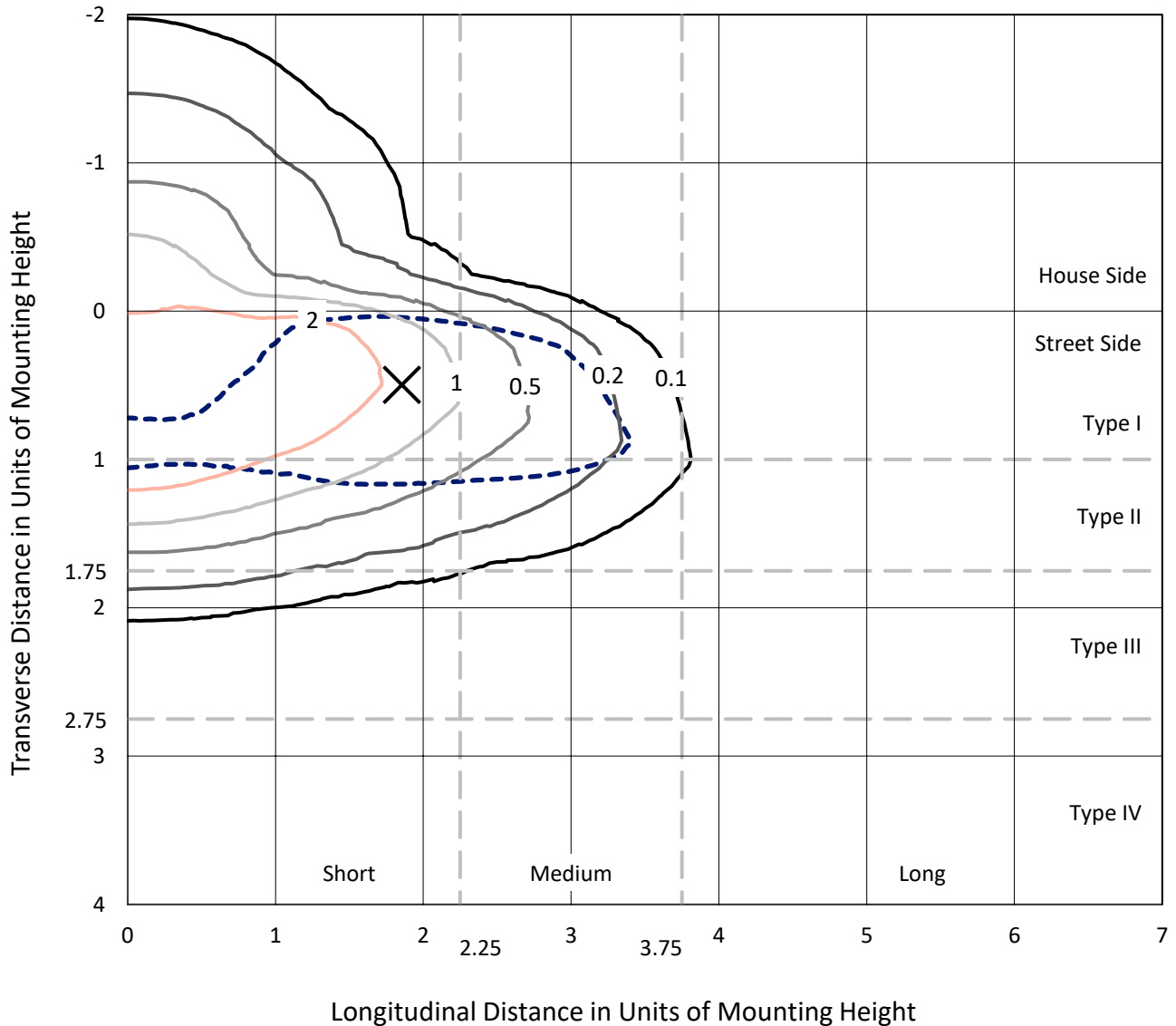
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

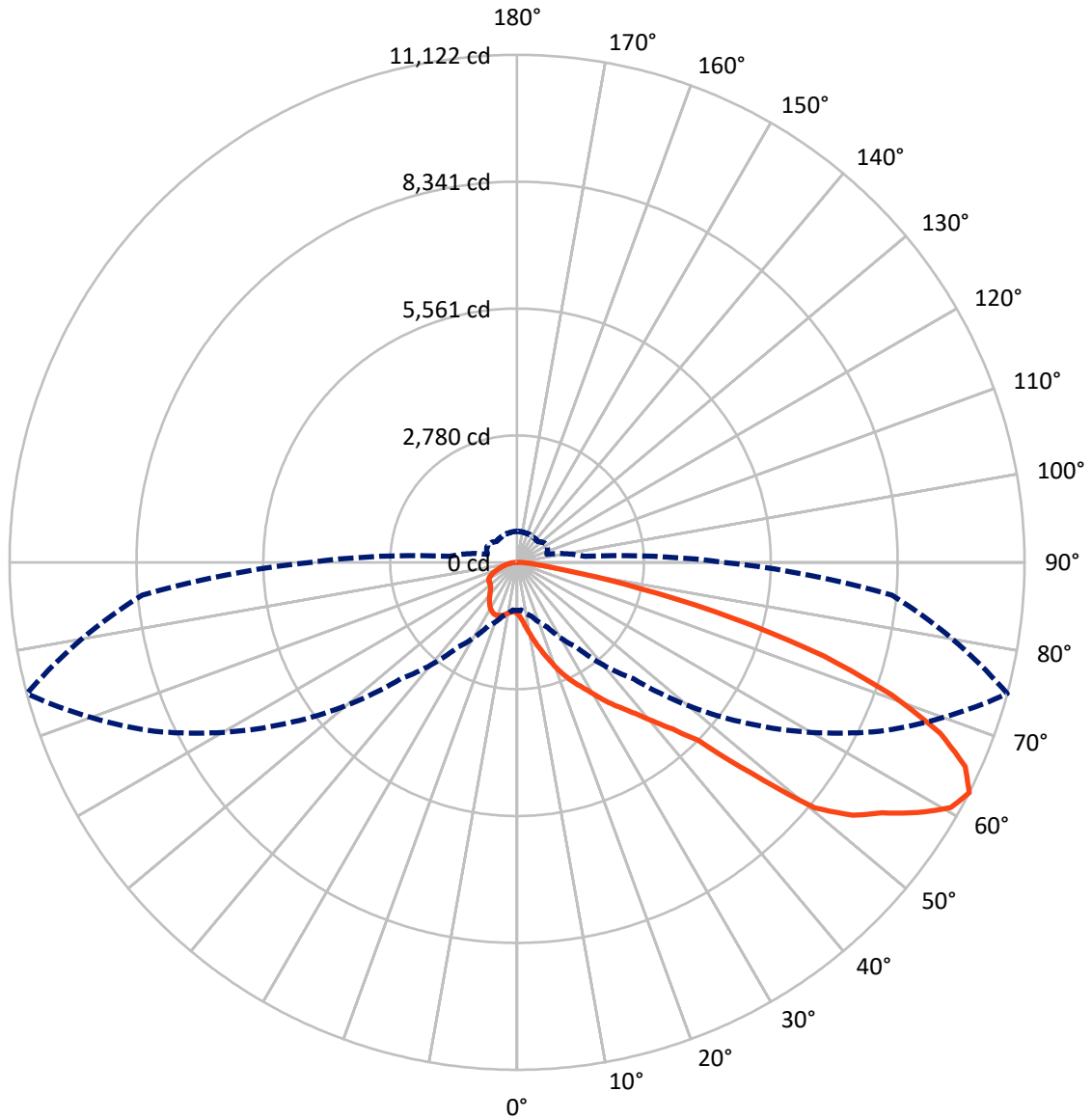
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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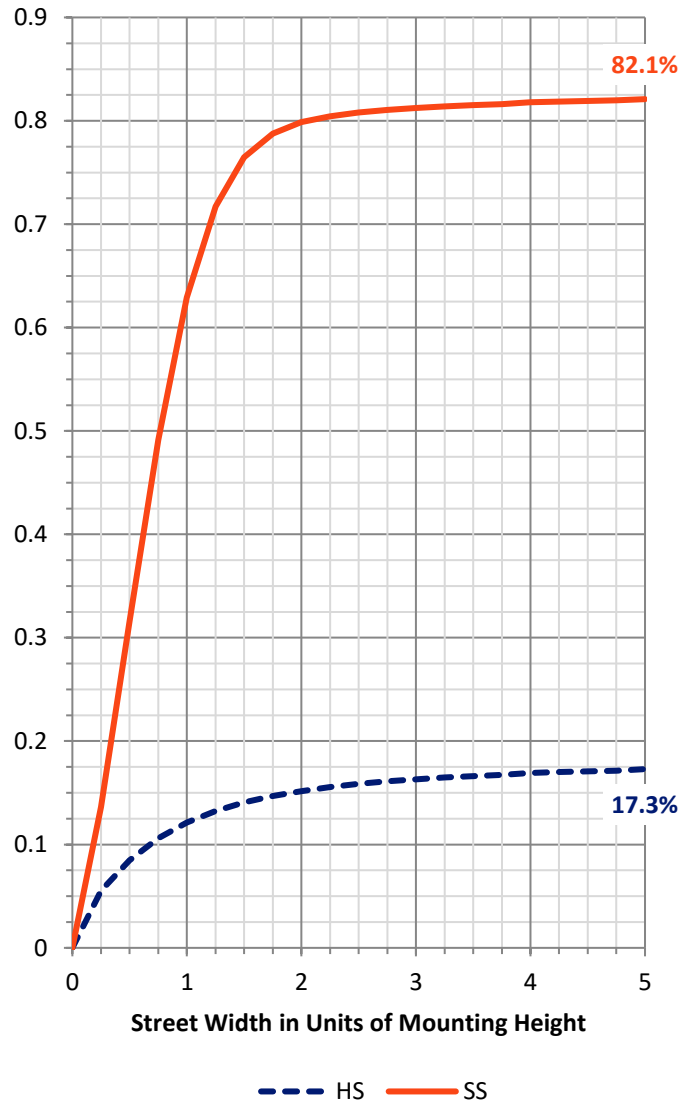
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2272.2	0.0	2272.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10610.8	0.0	10610.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	12883.0	0.0	12883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	1.0
10°-20°	533.1	4.1
20°-30°	1054.7	8.2
30°-40°	1758.0	13.6
40°-50°	2594.1	20.1
50°-60°	3118.4	24.2
60°-70°	2423.6	18.8
70°-80°	1072.2	8.3
80°-90°	194.1	1.5
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°	12883.0	100.0
0°-180°	12883.0	100.0

Coefficient of Utilization



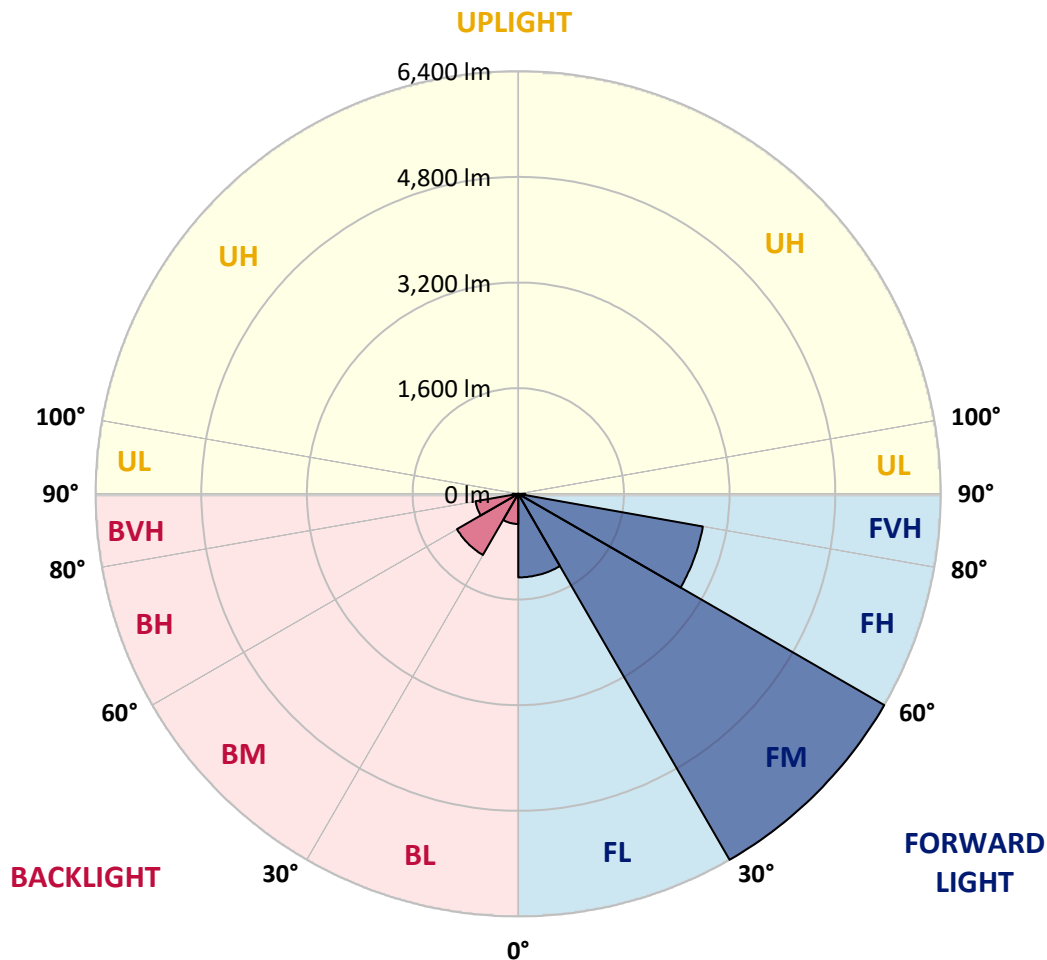
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.5	9.8			
FM (30°-60°)	6400.3	49.7			
FH (60°-80°)	2838.4	22.0			G2/5000
FVH (80°-90°)	106.7	0.8			G2/225
BL (0°-30°)	457.2	3.5	B1/500		
BM (30°-60°)	1070.2	8.3	B2/2500		
BH (60°-80°)	657.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	87.4	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0
2.5°	1435.9	1394.2	1394.2	1349.0	1352.4	1314.2	1272.5	1230.7	1185.5	1150.8	1133.4
5°	1877.4	1846.1	1835.7	1783.5	1700.1	1606.2	1505.4	1401.1	1293.3	1209.9	1168.2
7.5°	2291.1	2266.8	2252.9	2193.8	2079.1	1978.2	1818.3	1627.1	1442.8	1286.4	1223.8
10°	2597.1	2579.7	2551.9	2524.1	2440.6	2353.7	2155.5	1884.4	1613.2	1380.2	1286.4
12.5°	2819.6	2795.3	2795.3	2791.8	2736.2	2656.2	2471.9	2179.9	1811.4	1484.5	1355.9
15°	2969.1	2965.6	2976.0	2996.9	2983.0	2930.8	2746.6	2451.1	2013.0	1602.8	1435.9
17.5°	3080.3	3066.4	3087.3	3142.9	3184.6	3163.8	3010.8	2711.8	2235.5	1731.4	1522.8
20°	3202.0	3174.2	3202.0	3271.6	3323.7	3355.0	3282.0	2962.1	2475.4	1870.5	1606.2
22.5°	3435.0	3431.5	3417.6	3438.4	3473.2	3528.8	3487.1	3215.9	2708.3	2009.5	1703.6
25°	3852.2	3813.9	3775.7	3730.5	3692.2	3709.6	3674.9	3452.3	2920.4	2162.5	1787.0
27.5°	4318.0	4276.3	4206.8	4095.5	3991.2	3928.7	3855.6	3657.5	3125.5	2301.6	1867.0
30°	4745.7	4731.8	4627.5	4505.8	4325.0	4210.3	4071.2	3893.9	3372.4	2454.5	1950.4
32.5°	5145.5	5117.7	5013.4	4884.7	4672.7	4544.0	4352.8	4151.2	3654.0	2642.3	2037.3
35°	5489.7	5461.9	5340.2	5176.8	4992.5	4881.3	4662.2	4380.6	3911.3	2805.7	2110.3
37.5°	5750.4	5719.1	5604.4	5444.5	5281.1	5228.9	5041.2	4672.7	4203.3	3010.8	2200.7
40°	5896.5	5858.2	5781.7	5670.5	5534.9	5510.5	5430.6	5034.2	4571.8	3261.1	2332.9
42.5°	5913.8	5879.1	5837.4	5826.9	5816.5	5837.4	5875.6	5444.5	4992.5	3594.9	2527.5
45°	5760.9	5740.0	5743.5	5861.7	6025.1	6216.3	6445.8	6049.4	5559.2	4231.1	2965.6
47.5°	5434.1	5423.6	5500.1	5698.3	6063.3	6497.9	7148.1	7085.5	6901.2	5256.7	3528.8
50°	4905.6	4888.2	5051.6	5364.5	5886.0	6591.8	7620.9	8305.8	8458.8	6052.9	3897.4
52.5°	4147.7	4168.5	4422.3	4850.0	5479.3	6491.0	7815.6	8806.4	9209.7	6640.5	4179.0
55°	3372.4	3341.1	3570.6	4099.0	4877.8	6122.4	7853.8	9095.0	9696.5	7182.8	4453.6
57.5°	2458.0	2534.5	2777.9	3257.7	4102.5	5454.9	7631.3	9293.2	10350.1	7725.2	4707.4
60°	1665.3	1665.3	1880.9	2360.7	3170.7	4644.9	7036.8	9220.2	10920.3	8149.3	4763.1
62.5°	1060.4	1050.0	1223.8	1564.5	2270.3	3608.8	6146.8	8761.2	11121.9	8250.2	4530.1
65°	671.0	684.9	747.5	956.1	1453.3	2562.3	4933.4	7846.9	10791.6	8017.2	4123.3
67.5°	538.9	542.4	573.7	660.6	893.5	1644.5	3657.5	6584.8	10002.4	7429.7	3647.0
70°	476.3	483.3	490.2	521.5	611.9	1039.5	2402.4	5301.9	8709.1	6407.5	3136.0
72.5°	434.6	441.5	448.5	455.4	504.1	678.0	1418.5	4019.0	7026.4	4923.0	2392.0
75°	399.8	406.8	406.8	410.2	438.1	504.1	778.8	2770.9	4891.7	3063.0	1491.5
77.5°	358.1	361.6	361.6	368.5	396.3	396.3	483.3	1714.0	2715.3	1387.2	754.4
80°	302.5	309.4	309.4	319.9	347.7	305.9	323.3	876.1	1126.4	570.2	337.2
82.5°	222.5	236.4	243.4	260.8	278.1	232.9	232.9	441.5	476.3	253.8	180.8
85°	121.7	125.2	180.8	194.7	205.1	139.1	156.5	219.0	236.4	111.3	90.4
87.5°	34.8	38.2	86.9	107.8	97.3	59.1	66.1	83.4	83.4	31.3	24.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0
2.5°	1119.5	1091.7	1067.3	1050.0	1032.6	1022.1	1018.7	1011.7	1011.7	1015.2
5°	1133.4	1084.7	1046.5	1025.6	1011.7	1004.8	1001.3	1001.3	1004.8	1004.8
7.5°	1168.2	1095.2	1060.4	1043.0	1029.1	1022.1	1022.1	1018.7	1022.1	1022.1
10°	1216.8	1126.4	1088.2	1067.3	1056.9	1046.5	1043.0	1039.5	1039.5	1039.5
12.5°	1269.0	1161.2	1119.5	1095.2	1077.8	1063.9	1056.9	1050.0	1046.5	1046.5
15°	1317.7	1196.0	1140.4	1112.5	1088.2	1067.3	1053.4	1043.0	1039.5	1039.5
17.5°	1369.8	1220.3	1154.3	1116.0	1084.7	1056.9	1039.5	1025.6	1018.7	1018.7
20°	1425.4	1237.7	1154.3	1105.6	1063.9	1036.1	1015.2	1001.3	987.4	987.4
22.5°	1470.6	1244.7	1140.4	1081.2	1039.5	1004.8	983.9	966.5	956.1	956.1
25°	1508.9	1237.7	1109.1	1043.0	994.3	963.0	942.2	928.3	917.8	917.8
27.5°	1533.2	1209.9	1070.8	1001.3	956.1	924.8	910.9	897.0	890.0	890.0
30°	1547.1	1175.1	1022.1	956.1	910.9	893.5	886.6	872.6	862.2	858.7
32.5°	1554.1	1123.0	973.5	910.9	879.6	872.6	872.6	855.3	841.4	837.9
35°	1547.1	1067.3	924.8	872.6	862.2	865.7	858.7	837.9	820.5	813.5
37.5°	1536.7	1001.3	872.6	844.8	855.3	862.2	841.4	813.5	785.7	778.8
40°	1529.7	942.2	830.9	817.0	848.3	851.8	813.5	761.4	740.5	733.6
42.5°	1564.5	883.1	792.7	796.2	830.9	834.4	764.9	740.5	726.6	723.2
45°	1682.7	830.9	761.4	782.3	810.1	796.2	740.5	737.1	726.6	723.2
47.5°	1773.1	792.7	747.5	771.8	792.7	744.0	737.1	733.6	723.2	719.7
50°	1804.4	768.3	744.0	764.9	768.3	719.7	730.1	730.1	719.7	716.2
52.5°	1807.9	754.4	751.0	761.4	730.1	709.2	723.2	723.2	712.7	709.2
55°	1821.8	747.5	754.4	761.4	688.4	695.3	709.2	712.7	702.3	698.8
57.5°	1794.0	737.1	761.4	764.9	671.0	681.4	695.3	695.3	695.3	695.3
60°	1686.2	716.2	757.9	757.9	657.1	664.0	678.0	684.9	688.4	688.4
62.5°	1488.0	674.5	737.1	737.1	643.2	650.1	667.5	667.5	678.0	678.0
65°	1237.7	615.4	695.3	691.9	629.3	636.2	657.1	650.1	667.5	671.0
67.5°	1032.6	542.4	632.8	639.7	615.4	632.8	646.7	622.3	657.1	657.1
70°	824.0	455.4	549.3	580.6	591.0	636.2	625.8	587.6	632.8	622.3
72.5°	639.7	385.9	452.0	507.6	563.2	632.8	580.6	538.9	566.7	549.3
75°	465.9	319.9	372.0	420.7	525.0	622.3	535.4	472.8	472.8	465.9
77.5°	326.8	260.8	299.0	333.8	486.7	594.5	479.8	406.8	389.4	385.9
80°	222.5	205.1	236.4	257.3	431.1	538.9	413.7	337.2	305.9	299.0
82.5°	146.0	146.0	159.9	173.8	333.8	448.5	323.3	250.3	323.3	309.4
85°	83.4	86.9	86.9	100.8	184.3	316.4	229.5	250.3	149.5	139.1
87.5°	27.8	27.8	27.8	27.8	38.2	128.6	97.3	90.4	34.8	31.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)