

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: P572951

Luminaire Tested: **ARCH-S-PA2-130-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572951
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-PA2-130-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12928 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

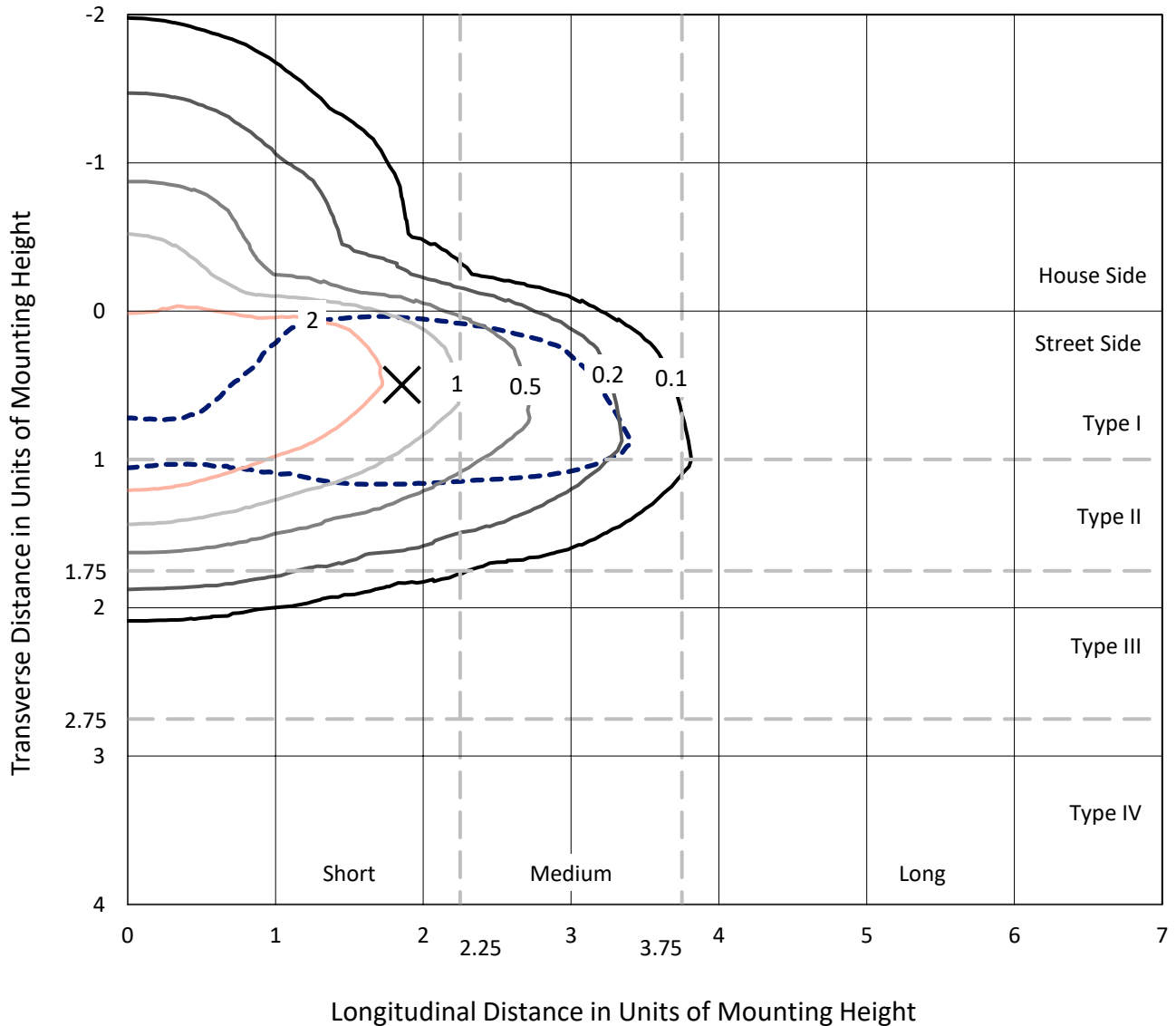
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

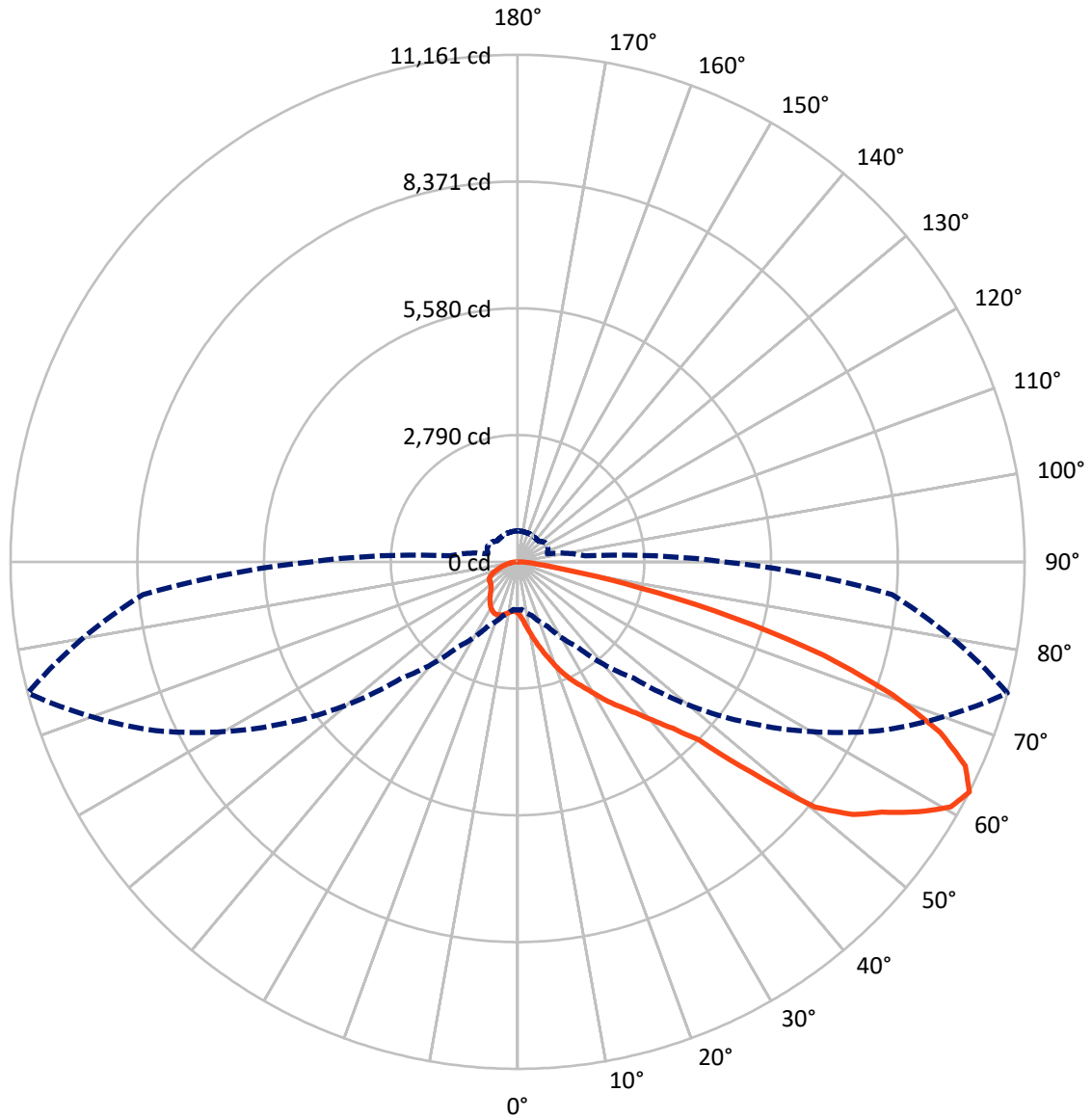
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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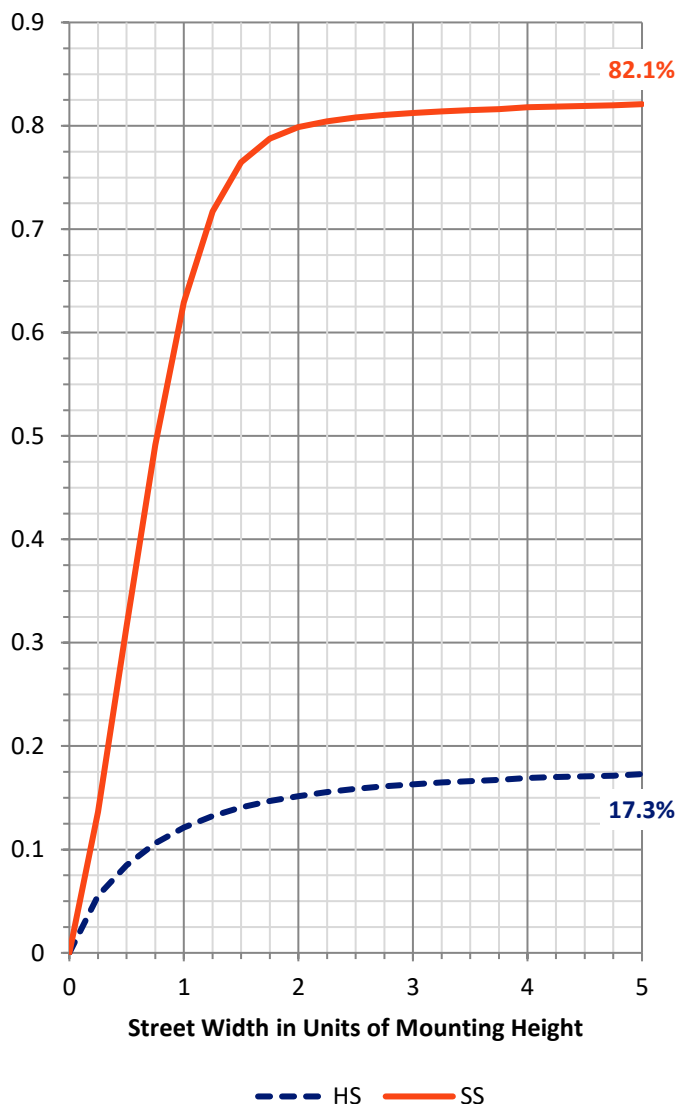
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2280.1	0.0	2280.1
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10647.9	0.0	10647.9
	% Fixture	82.4	0.0	82.4
Total	Lumens	12928.0	0.0	12928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.0
10°-20°	535.0	4.1
20°-30°	1058.4	8.2
30°-40°	1764.1	13.6
40°-50°	2603.2	20.1
50°-60°	3129.3	24.2
60°-70°	2432.1	18.8
70°-80°	1075.9	8.3
80°-90°	194.8	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°	12928.0	100.0
0°-180°	12928.0	100.0

Coefficient of Utilization

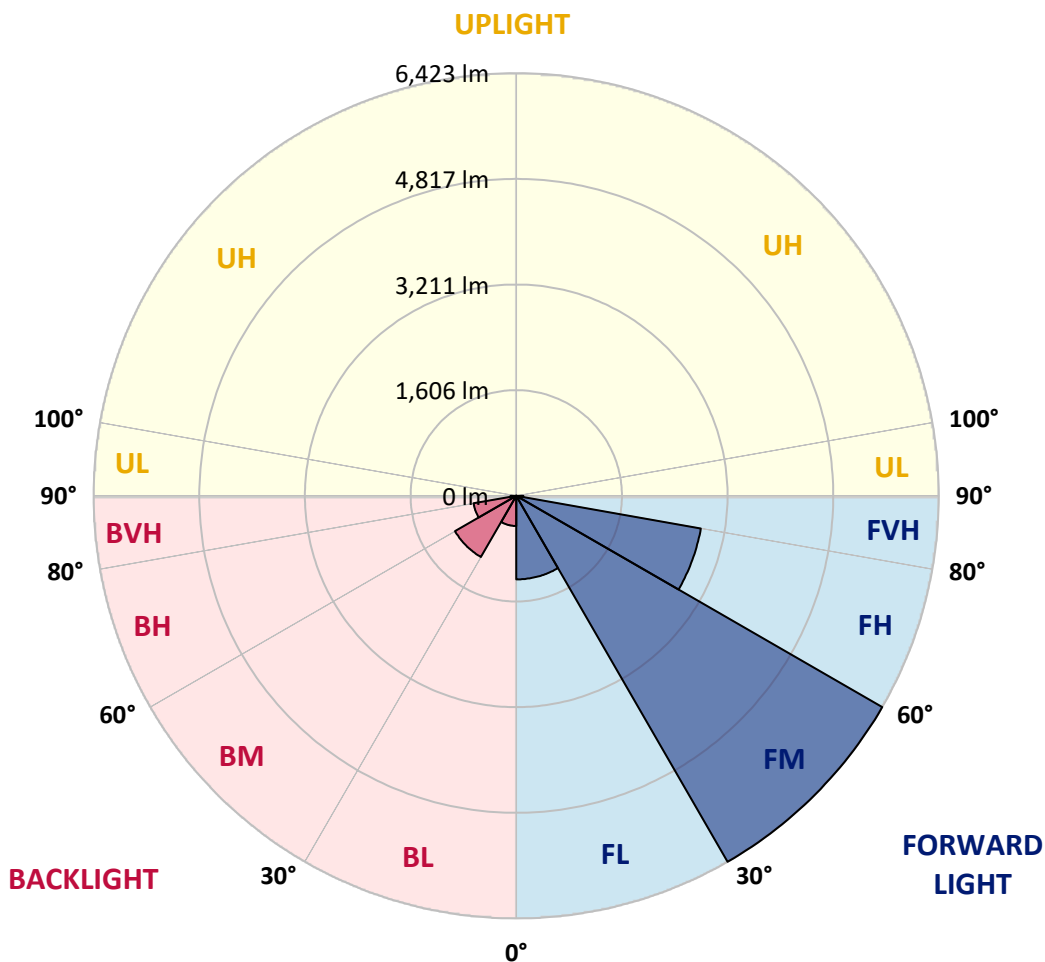


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.9	9.8			
FM (30°-60°)	6422.6	49.7			
FH (60°-80°)	2848.3	22.0			G2/5000
FVH (80°-90°)	107.1	0.8			G2/225
BL (0°-30°)	458.8	3.5	B1/500		
BM (30°-60°)	1073.9	8.3	B2/2500		
BH (60°-80°)	659.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	87.7	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°	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9
2.5°	1440.9	1399.0	1399.0	1353.7	1357.2	1318.8	1276.9	1235.0	1189.7	1154.8	1137.4
5°	1884.0	1852.6	1842.1	1789.8	1706.0	1611.8	1510.7	1406.0	1297.8	1214.1	1172.2
7.5°	2299.1	2274.7	2260.8	2201.5	2086.3	1985.1	1824.7	1632.8	1447.9	1290.9	1228.1
10°	2606.2	2588.7	2560.8	2532.9	2449.2	2361.9	2163.1	1890.9	1618.8	1385.1	1290.9
12.5°	2829.4	2805.0	2805.0	2801.5	2745.7	2665.5	2480.6	2187.5	1817.7	1489.7	1360.6
15°	2979.5	2976.0	2986.4	3007.4	2993.4	2941.1	2756.2	2459.6	2020.0	1608.3	1440.9
17.5°	3091.1	3077.1	3098.1	3153.9	3195.8	3174.8	3021.3	2721.3	2243.3	1737.4	1528.1
20°	3213.2	3185.3	3213.2	3283.0	3335.3	3366.7	3293.5	2972.5	2484.0	1877.0	1611.8
22.5°	3447.0	3443.5	3429.5	3450.5	3485.3	3541.2	3499.3	3227.2	2717.8	2016.5	1709.5
25°	3865.6	3827.2	3788.9	3743.5	3705.1	3722.6	3687.7	3464.4	2930.6	2170.1	1793.3
27.5°	4333.1	4291.3	4221.5	4109.8	4005.2	3942.4	3869.1	3670.2	3136.5	2309.6	1873.5
30°	4762.3	4748.3	4643.6	4521.5	4340.1	4225.0	4085.4	3907.5	3384.2	2463.1	1957.2
32.5°	5163.5	5135.6	5030.9	4901.8	4689.0	4559.9	4368.0	4165.7	3666.8	2651.5	2044.5
35°	5508.9	5480.9	5358.8	5194.9	5010.0	4898.3	4678.5	4395.9	3924.9	2815.5	2117.7
37.5°	5770.5	5739.1	5624.0	5463.5	5299.5	5247.2	5058.8	4689.0	4218.0	3021.3	2208.4
40°	5917.1	5878.7	5801.9	5690.3	5554.2	5529.8	5449.6	5051.8	4587.8	3272.5	2341.0
42.5°	5934.5	5899.6	5857.7	5847.3	5836.8	5857.7	5896.1	5463.5	5010.0	3607.4	2536.4
45°	5781.0	5760.1	5763.5	5882.2	6046.1	6238.0	6468.3	6070.6	5578.6	4245.9	2976.0
47.5°	5453.0	5442.6	5519.3	5718.2	6084.5	6520.6	7173.0	7110.2	6925.3	5275.1	3541.2
50°	4922.7	4905.3	5069.3	5383.3	5906.6	6614.8	7647.5	8334.8	8488.3	6074.1	3911.0
52.5°	4162.2	4183.1	4437.8	4866.9	5498.4	6513.6	7842.9	8837.2	9241.9	6663.7	4193.6
55°	3384.2	3352.8	3583.0	4113.3	4894.8	6143.8	7881.3	9126.8	9730.3	7207.9	4469.2
57.5°	2466.6	2543.4	2787.6	3269.0	4116.8	5474.0	7658.0	9325.6	10386.2	7752.2	4723.9
60°	1671.1	1671.1	1887.5	2368.9	3181.8	4661.1	7061.4	9252.4	10958.4	8177.8	4779.7
62.5°	1064.1	1053.6	1228.1	1570.0	2278.2	3621.4	6168.2	8791.8	11160.8	8279.0	4545.9
65°	673.3	687.3	750.1	959.4	1458.3	2571.3	4950.6	7874.3	10829.3	8045.2	4137.8
67.5°	540.8	544.3	575.7	662.9	896.6	1650.2	3670.2	6607.8	10037.4	7455.6	3659.8
70°	478.0	484.9	491.9	523.3	614.0	1043.2	2410.8	5320.5	8739.5	6429.9	3146.9
72.5°	436.1	443.1	450.1	457.0	505.9	680.3	1423.4	4033.1	7050.9	4940.2	2400.3
75°	401.2	408.2	408.2	411.7	439.6	505.9	781.5	2780.6	4908.8	3073.7	1496.7
77.5°	359.3	362.8	362.8	369.8	397.7	397.7	484.9	1720.0	2724.8	1392.0	757.1
80°	303.5	310.5	310.5	321.0	348.9	307.0	324.5	879.2	1130.4	572.2	338.4
82.5°	223.3	237.2	244.2	261.7	279.1	233.8	233.8	443.1	478.0	254.7	181.4
85°	122.1	125.6	181.4	195.4	205.8	139.6	157.0	219.8	237.2	111.6	90.7
87.5°	34.9	38.4	87.2	108.2	97.7	59.3	66.3	83.7	83.7	31.4	24.4
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°	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9
2.5°	1123.4	1095.5	1071.1	1053.6	1036.2	1025.7	1022.2	1015.2	1015.2	1018.7
5°	1137.4	1088.5	1050.1	1029.2	1015.2	1008.3	1004.8	1004.8	1008.3	1008.3
7.5°	1172.2	1099.0	1064.1	1046.6	1032.7	1025.7	1025.7	1022.2	1025.7	1025.7
10°	1221.1	1130.4	1092.0	1071.1	1060.6	1050.1	1046.6	1043.2	1043.2	1043.2
12.5°	1273.4	1165.3	1123.4	1099.0	1081.5	1067.6	1060.6	1053.6	1050.1	1050.1
15°	1322.3	1200.2	1144.3	1116.4	1092.0	1071.1	1057.1	1046.6	1043.2	1043.2
17.5°	1374.6	1224.6	1158.3	1119.9	1088.5	1060.6	1043.2	1029.2	1022.2	1022.2
20°	1430.4	1242.0	1158.3	1109.4	1067.6	1039.7	1018.7	1004.8	990.8	990.8
22.5°	1475.8	1249.0	1144.3	1085.0	1043.2	1008.3	987.3	969.9	959.4	959.4
25°	1514.2	1242.0	1112.9	1046.6	997.8	966.4	945.5	931.5	921.1	921.1
27.5°	1538.6	1214.1	1074.6	1004.8	959.4	928.0	914.1	900.1	893.1	893.1
30°	1552.5	1179.2	1025.7	959.4	914.1	896.6	889.7	875.7	865.2	861.7
32.5°	1559.5	1126.9	976.9	914.1	882.7	875.7	875.7	858.3	844.3	840.8
35°	1552.5	1071.1	928.0	875.7	865.2	868.7	861.7	840.8	823.4	816.4
37.5°	1542.1	1004.8	875.7	847.8	858.3	865.2	844.3	816.4	788.5	781.5
40°	1535.1	945.5	833.8	819.9	851.3	854.8	816.4	764.1	743.1	736.1
42.5°	1570.0	886.2	795.5	798.9	833.8	837.3	767.5	743.1	729.2	725.7
45°	1688.6	833.8	764.1	785.0	812.9	798.9	743.1	739.6	729.2	725.7
47.5°	1779.3	795.5	750.1	774.5	795.5	746.6	739.6	736.1	725.7	722.2
50°	1810.7	771.0	746.6	767.5	771.0	722.2	732.7	732.7	722.2	718.7
52.5°	1814.2	757.1	753.6	764.1	732.7	711.7	725.7	725.7	715.2	711.7
55°	1828.1	750.1	757.1	764.1	690.8	697.8	711.7	715.2	704.7	701.3
57.5°	1800.2	739.6	764.1	767.5	673.3	683.8	697.8	697.8	697.8	697.8
60°	1692.1	718.7	760.6	760.6	659.4	666.4	680.3	687.3	690.8	690.8
62.5°	1493.2	676.8	739.6	739.6	645.4	652.4	669.9	669.9	680.3	680.3
65°	1242.0	617.5	697.8	694.3	631.5	638.5	659.4	652.4	669.9	673.3
67.5°	1036.2	544.3	635.0	641.9	617.5	635.0	648.9	624.5	659.4	659.4
70°	826.9	457.0	551.2	582.6	593.1	638.5	628.0	589.6	635.0	624.5
72.5°	641.9	387.3	453.5	509.4	565.2	635.0	582.6	540.8	568.7	551.2
75°	467.5	321.0	373.3	422.1	526.8	624.5	537.3	474.5	474.5	467.5
77.5°	327.9	261.7	300.0	334.9	488.4	596.6	481.5	408.2	390.7	387.3
80°	223.3	205.8	237.2	258.2	432.6	540.8	415.2	338.4	307.0	300.0
82.5°	146.5	146.5	160.5	174.4	334.9	450.1	324.5	251.2	324.5	310.5
85°	83.7	87.2	87.2	101.2	184.9	317.5	230.3	251.2	150.0	139.6
87.5°	27.9	27.9	27.9	27.9	38.4	129.1	97.7	90.7	34.9	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)