

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: P572952

Luminaire Tested: **ARCH-S-PA2-130-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
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-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8850 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

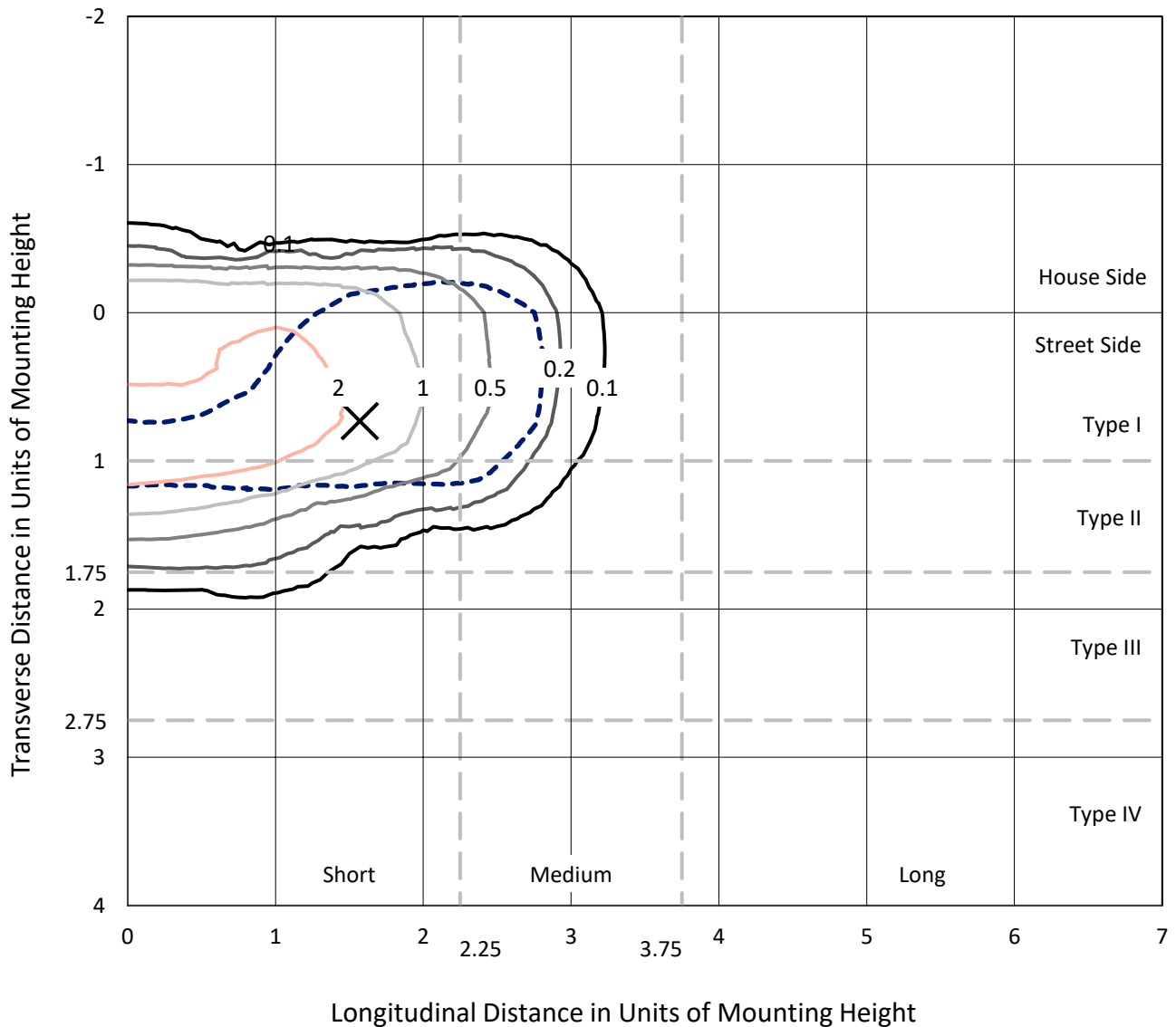




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Iso-Footcandle Lines of Horizontal Illumination

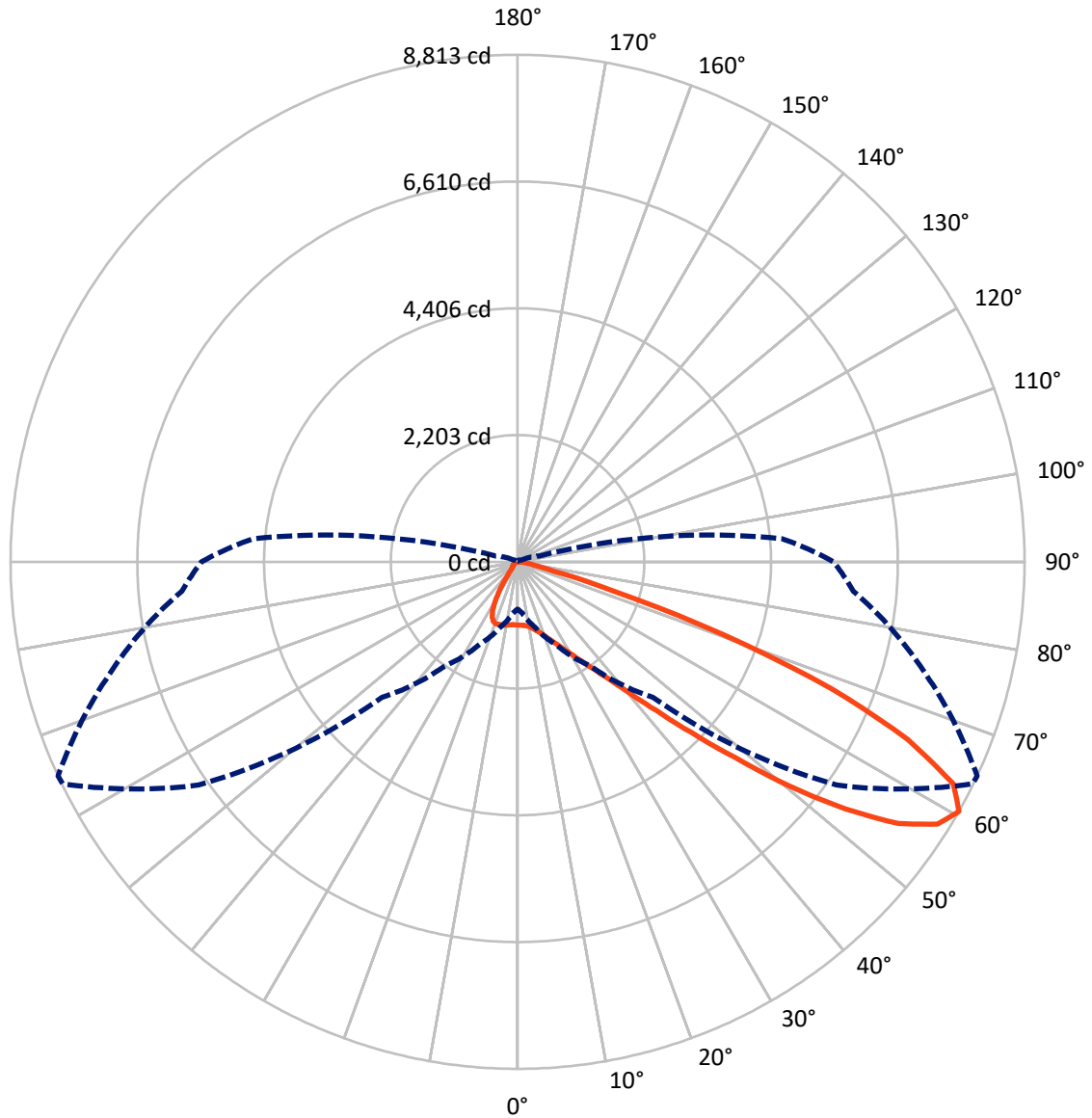
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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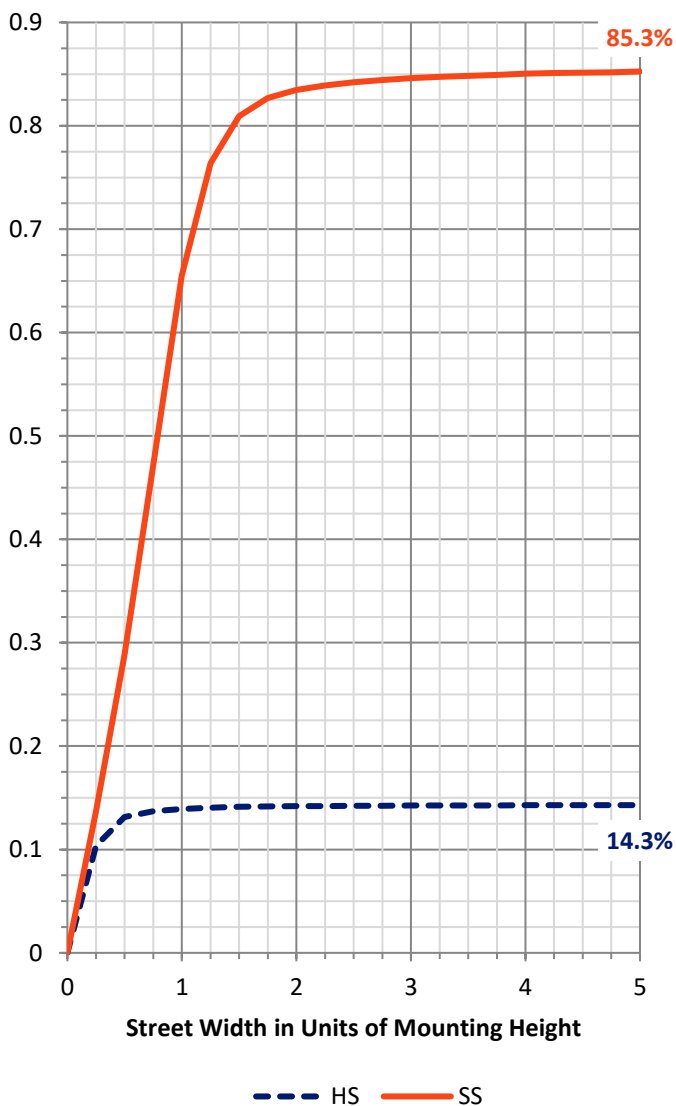
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1281.3	0.0	1281.3
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	7568.8	0.0	7568.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	8850.0	0.0	8850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.2
10°-20°	295.6	3.3
20°-30°	502.2	5.7
30°-40°	1036.2	11.7
40°-50°	2083.9	23.5
50°-60°	2550.0	28.8
60°-70°	1804.0	20.4
70°-80°	434.7	4.9
80°-90°	39.3	0.4
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°	8850.0	100.0
0°-180°	8850.0	100.0

Coefficient of Utilization

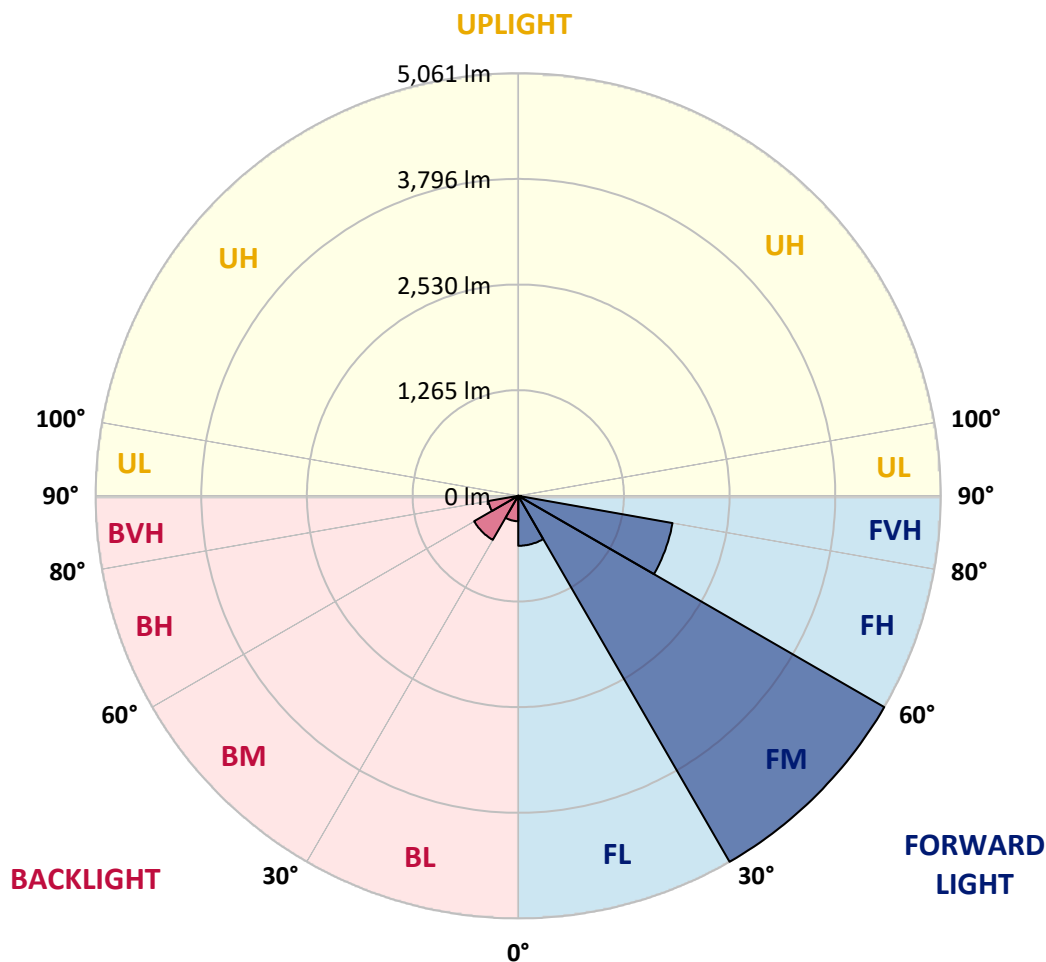


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	598.2	6.8			
FM (30°-60°)	5060.8	57.2			
FH (60°-80°)	1875.5	21.2			G2/5000
FVH (80°-90°)	34.2	0.4			G1/100
BL (0°-30°)	303.8	3.4	B1/500		
BM (30°-60°)	609.2	6.9	B1/1000		
BH (60°-80°)	363.2	4.1	B1/500		G1/500
BVH (80°-90°)	5.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1106.0	1102.5	1102.5	1102.5	1106.0	1106.0	1109.5	1102.5	1102.5	1102.5	1102.5
5°	1099.0	1095.5	1095.5	1099.0	1102.5	1102.5	1109.5	1109.5	1109.5	1113.0	1113.0
7.5°	1113.0	1106.0	1106.0	1109.5	1113.0	1113.0	1119.9	1123.4	1123.4	1130.4	1133.9
10°	1130.4	1126.9	1126.9	1133.9	1140.9	1140.9	1151.3	1151.3	1151.3	1158.3	1161.8
12.5°	1154.8	1151.3	1151.3	1161.8	1172.3	1179.2	1186.2	1189.7	1193.2	1193.2	1193.2
15°	1189.7	1186.2	1186.2	1196.7	1210.6	1228.1	1238.6	1238.6	1245.5	1242.0	1228.1
17.5°	1238.6	1235.1	1238.6	1245.5	1263.0	1280.4	1301.4	1304.8	1301.4	1294.4	1273.4
20°	1318.8	1308.3	1315.3	1332.8	1332.8	1343.2	1371.1	1381.6	1385.1	1364.2	1325.8
22.5°	1402.5	1402.5	1409.5	1430.4	1416.5	1430.4	1454.9	1472.3	1479.3	1461.8	1399.0
25°	1559.5	1566.5	1556.0	1549.1	1514.2	1521.2	1552.6	1587.4	1587.4	1573.5	1482.8
27.5°	1904.9	1898.0	1824.7	1723.5	1632.8	1639.8	1671.2	1716.5	1720.0	1688.6	1566.5
30°	2400.4	2407.3	2264.3	2034.0	1835.2	1782.8	1817.7	1870.0	1877.0	1824.7	1674.7
32.5°	3174.9	3115.6	2850.4	2543.4	2170.1	1981.7	1995.6	2051.5	2072.4	2027.0	1845.6
35°	4176.2	4036.6	3638.9	3258.6	2717.8	2337.6	2229.4	2288.7	2299.2	2274.8	2058.4
37.5°	4772.8	4661.2	4403.0	4057.6	3422.6	2812.0	2536.4	2595.7	2585.3	2536.4	2271.3
40°	5142.6	5079.8	4940.3	4779.8	4375.1	3558.7	3042.3	2993.5	2997.0	2927.2	2616.7
42.5°	5352.0	5296.1	5243.8	5285.7	5167.0	4912.4	3775.0	3551.7	3530.8	3398.2	3017.9
45°	5362.4	5278.7	5341.5	5585.7	5774.1	6112.5	4730.9	4214.6	4225.0	4005.2	3516.8
47.5°	4961.2	4894.9	5076.3	5554.3	6178.8	6897.5	5843.9	5121.7	5072.8	4640.2	4022.7
50°	4169.2	4165.7	4406.5	5083.3	6178.8	7302.2	7037.1	6185.8	6133.5	5303.1	4483.2
52.5°	3300.5	3366.8	3530.8	4172.7	5610.1	7263.9	7916.3	7284.8	7138.3	5892.7	4867.0
55°	2567.8	2543.4	2742.3	3185.4	4448.3	6601.0	8202.4	8150.0	8027.9	6416.1	5205.4
57.5°	1577.0	1667.7	1936.3	2330.6	3237.7	5191.5	7790.7	8676.9	8603.6	6904.5	5557.8
60°	819.9	889.7	1179.2	1590.9	2212.0	3328.4	6761.5	8799.0	8812.9	7298.8	5857.8
62.5°	516.4	512.9	645.4	1116.4	1423.5	1870.0	5250.8	8366.4	8498.9	7602.3	6143.9
65°	387.3	390.8	443.1	739.6	966.4	976.9	3115.6	7236.0	7455.8	7682.5	6241.6
67.5°	359.4	362.8	387.3	485.0	725.7	652.4	1371.1	5578.7	5885.8	6942.9	5864.8
70°	321.0	324.5	362.8	401.2	547.8	478.0	617.5	3359.8	3785.4	5038.0	4692.6
72.5°	251.2	258.2	303.5	380.3	408.2	362.8	429.1	1486.3	1734.0	2770.2	2686.4
75°	184.9	188.4	230.3	293.1	359.4	258.2	331.4	589.6	645.4	1039.7	886.2
77.5°	129.1	129.1	160.5	219.8	300.0	181.4	237.2	317.5	324.5	387.3	254.7
80°	80.2	83.7	101.2	150.0	184.9	174.4	146.5	212.8	212.8	202.4	104.7
82.5°	45.4	48.8	69.8	101.2	125.6	118.6	94.2	122.1	125.6	129.1	59.3
85°	20.9	24.4	41.9	62.8	73.3	55.8	55.8	62.8	62.8	83.7	34.9
87.5°	3.5	3.5	20.9	27.9	24.4	27.9	27.9	34.9	34.9	41.9	17.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1099.0	1099.0	1099.0	1095.5	1095.5	1092.0	1085.0	1085.0	1085.0	1085.0	1088.5
5°	1113.0	1109.5	1106.0	1095.5	1088.5	1074.6	1060.6	1057.1	1046.7	1046.7	1050.2
7.5°	1130.4	1130.4	1119.9	1102.5	1085.0	1060.6	1036.2	1018.8	1001.3	997.8	994.3
10°	1161.8	1154.8	1144.4	1113.0	1085.0	1046.7	1008.3	962.9	928.0	910.6	903.6
12.5°	1186.2	1182.7	1161.8	1126.9	1081.6	1022.2	935.0	830.4	746.6	701.3	701.3
15°	1221.1	1214.1	1182.7	1133.9	1071.1	931.5	753.6	593.1	502.4	453.6	446.6
17.5°	1256.0	1242.0	1203.7	1137.4	1025.7	767.6	526.8	380.3	317.5	293.1	286.1
20°	1297.9	1273.4	1217.6	1140.9	914.1	558.2	341.9	254.7	230.3	219.8	223.3
22.5°	1353.7	1311.8	1231.6	1119.9	746.6	362.8	240.7	205.8	191.9	181.4	181.4
25°	1423.5	1364.2	1256.0	1060.6	540.8	244.2	191.9	171.0	157.0	150.0	146.5
27.5°	1486.3	1413.0	1280.4	956.0	345.4	191.9	160.5	143.0	129.1	125.6	122.1
30°	1570.0	1468.8	1304.8	788.5	226.8	157.0	136.1	118.6	108.2	104.7	104.7
32.5°	1713.0	1577.0	1350.2	600.1	171.0	136.1	115.1	101.2	94.2	90.7	90.7
35°	1880.5	1709.6	1388.6	418.7	146.5	115.1	97.7	87.2	83.7	80.2	80.2
37.5°	2055.0	1866.6	1395.6	265.2	129.1	101.2	87.2	80.2	73.3	73.3	73.3
40°	2369.0	2142.2	1364.2	177.9	111.6	90.7	76.8	73.3	66.3	66.3	66.3
42.5°	2735.3	2477.1	1283.9	143.0	101.2	80.2	73.3	66.3	59.3	59.3	55.8
45°	3209.8	2857.4	1147.8	125.6	90.7	73.3	66.3	59.3	55.8	52.3	52.3
47.5°	3656.4	3290.0	1018.8	111.6	83.7	69.8	59.3	52.3	48.8	48.8	48.8
50°	4082.0	3621.5	868.7	104.7	76.8	66.3	55.8	48.8	45.4	41.9	41.9
52.5°	4389.0	3883.1	729.2	94.2	69.8	59.3	52.3	45.4	38.4	34.9	34.9
55°	4730.9	4148.3	603.6	83.7	66.3	55.8	45.4	38.4	31.4	27.9	27.9
57.5°	5114.7	4406.5	488.4	76.8	62.8	48.8	38.4	31.4	24.4	20.9	20.9
60°	5495.0	4612.3	390.8	69.8	55.8	45.4	34.9	24.4	17.4	14.0	14.0
62.5°	5875.3	4751.9	300.0	62.8	52.3	38.4	27.9	17.4	10.5	7.0	7.0
65°	6032.3	4713.5	223.3	55.8	45.4	31.4	24.4	17.4	10.5	7.0	7.0
67.5°	5596.2	4239.0	157.0	55.8	41.9	31.4	20.9	14.0	7.0	3.5	3.5
70°	4368.1	3272.6	115.1	55.8	41.9	31.4	20.9	14.0	7.0	3.5	3.5
72.5°	2477.1	1821.2	87.2	48.8	38.4	27.9	20.9	14.0	7.0	3.5	3.5
75°	882.7	586.1	66.3	45.4	34.9	24.4	20.9	14.0	7.0	3.5	3.5
77.5°	212.8	150.0	52.3	38.4	31.4	24.4	17.4	14.0	10.5	3.5	3.5
80°	87.2	62.8	41.9	31.4	24.4	20.9	17.4	14.0	7.0	3.5	3.5
82.5°	38.4	31.4	17.4	17.4	14.0	14.0	14.0	14.0	7.0	3.5	3.5
85°	17.4	14.0	7.0	7.0	3.5	3.5	3.5	7.0	7.0	3.5	3.5
87.5°	10.5	7.0	7.0	7.0	3.5	3.5	3.5	0.0	0.0	0.0	0.0
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)