

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: P258065

Luminaire Tested: **ARCH-L-AF72-90-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9242.4 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

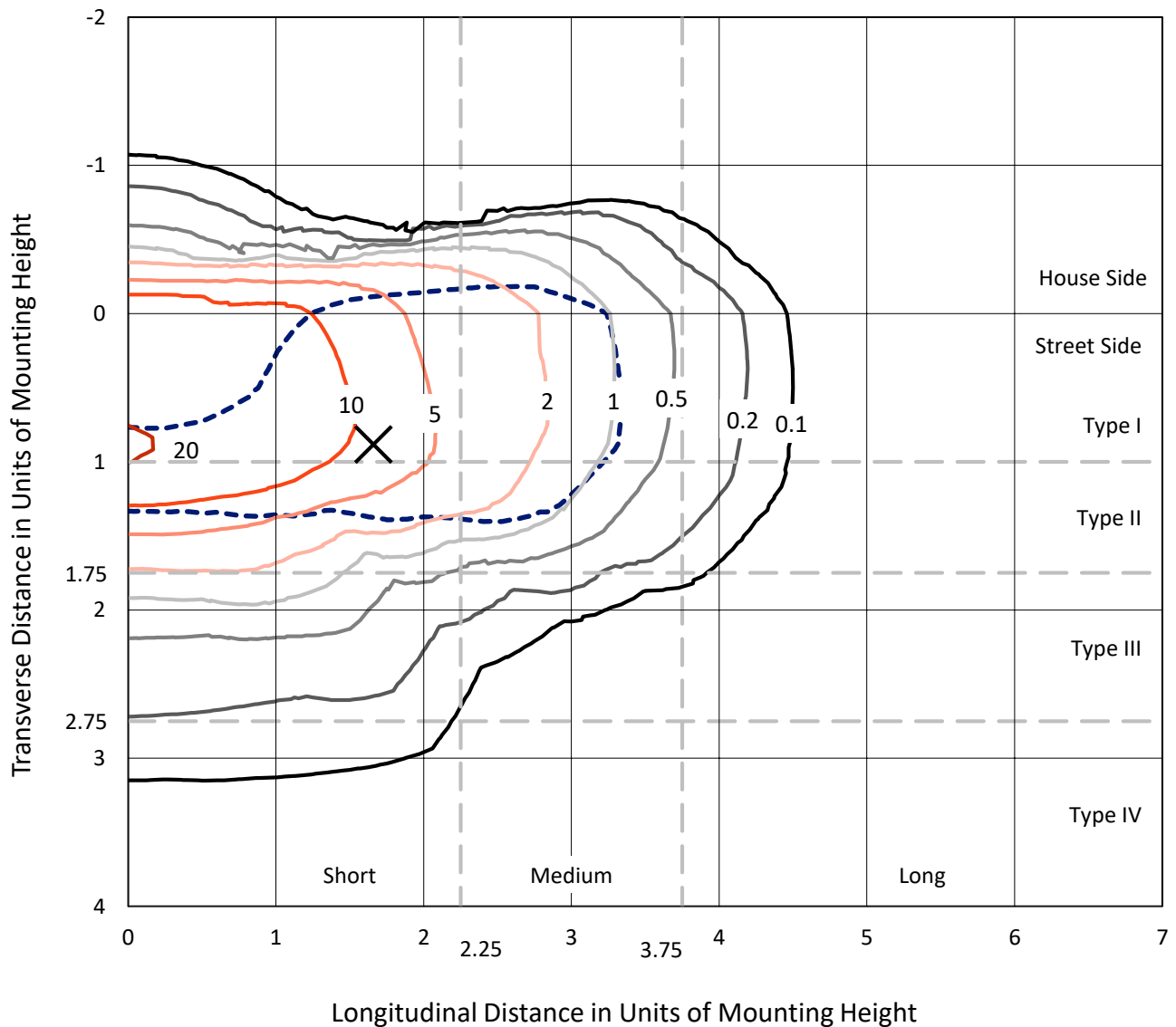


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

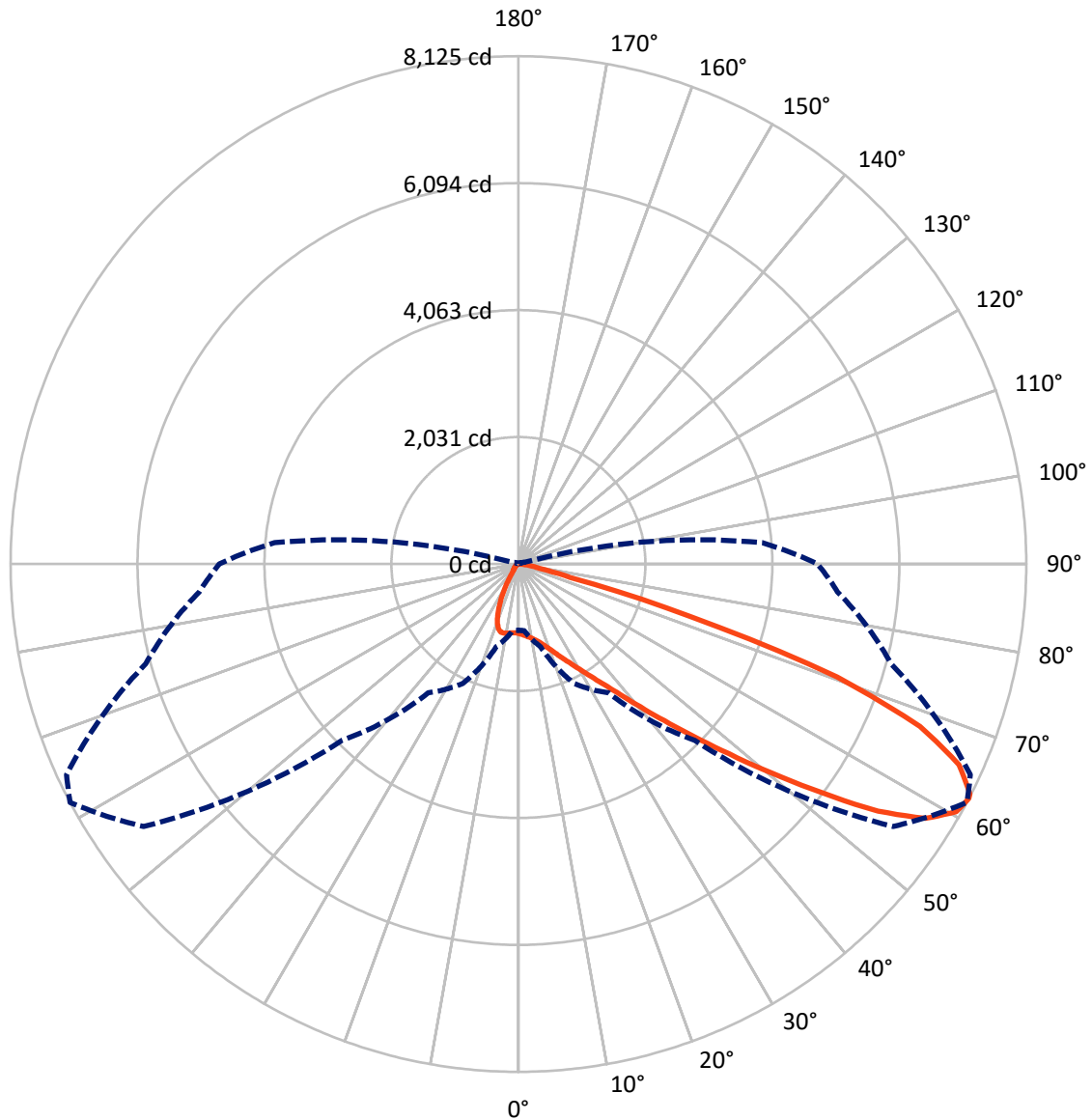


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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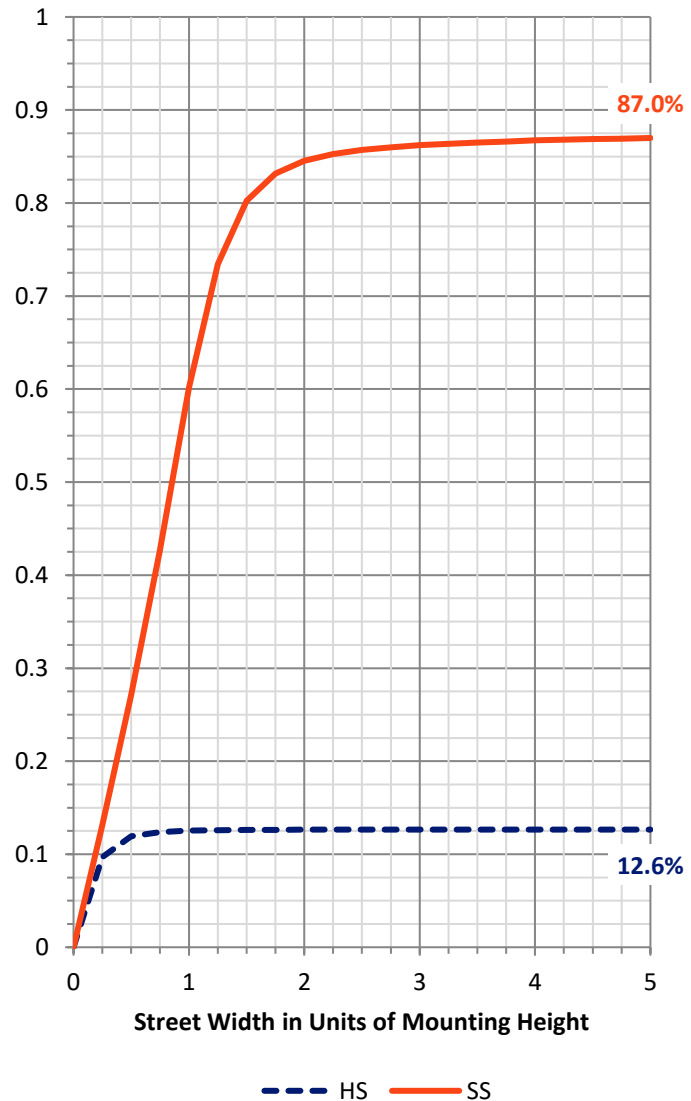
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1181.8	0.0	1181.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8060.6	0.0	8060.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	9242.4	0.0	9242.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.2
10°-20°	299.2	3.2
20°-30°	502.5	5.4
30°-40°	963.3	10.4
40°-50°	1967.5	21.3
50°-60°	2603.6	28.2
60°-70°	2022.6	21.9
70°-80°	730.1	7.9
80°-90°	46.5	0.5
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°	9242.4	100.0
0°-180°	9242.4	100.0



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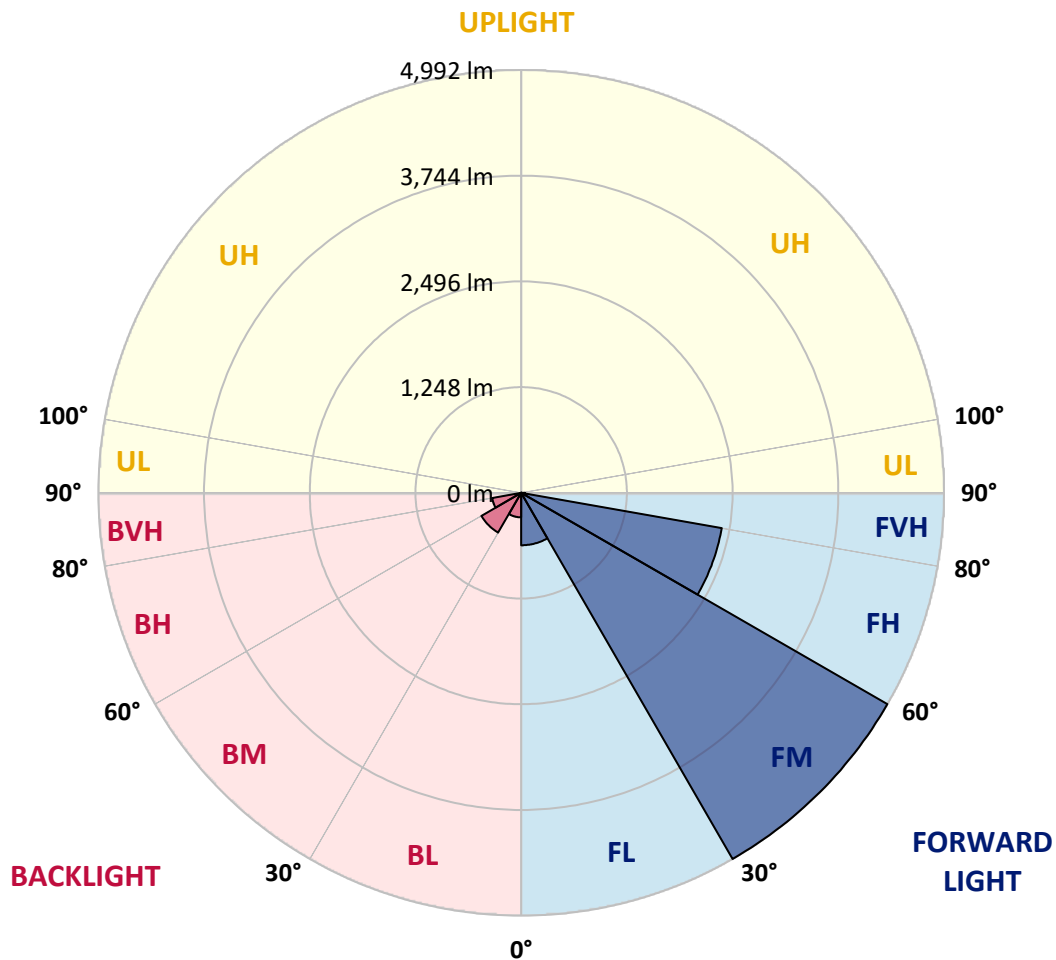
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.6	6.7			
FM	(30°-60°)	4991.8	54.0			
FH	(60°-80°)	2404.7	26.0			G2/5000
FVH	(80°-90°)	44.5	0.5			G1/100
BL	(0°-30°)	289.2	3.1	B1/500		
BM	(30°-60°)	542.5	5.9	B1/1000		
BH	(60°-80°)	348.0	3.8	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			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°	62°	65°	75°	85°
0°	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4
2.5°	1142.9	1140.6	1138.3	1136.1	1136.1	1133.8	1131.6	1127.0	1122.5	1117.9	1115.6
5°	1163.3	1161.0	1158.8	1161.0	1158.8	1158.8	1156.5	1151.9	1147.4	1140.6	1133.8
7.5°	1179.3	1177.0	1174.8	1177.0	1179.3	1181.5	1183.8	1179.3	1177.0	1167.9	1161.0
10°	1199.7	1197.5	1195.1	1199.7	1199.7	1211.1	1213.3	1211.1	1208.8	1202.0	1190.6
12.5°	1229.3	1231.5	1231.5	1236.0	1240.6	1254.2	1258.7	1252.0	1252.0	1242.9	1229.3
15°	1283.8	1283.8	1283.8	1288.3	1290.6	1308.8	1313.3	1306.5	1311.0	1295.2	1281.6
17.5°	1336.1	1338.3	1342.8	1351.9	1351.9	1367.9	1376.9	1376.9	1386.0	1365.5	1347.4
20°	1388.2	1390.6	1397.4	1417.8	1417.8	1438.3	1454.2	1461.0	1470.1	1449.6	1417.8
22.5°	1445.1	1445.1	1456.5	1488.3	1481.4	1522.4	1551.9	1563.3	1572.4	1545.1	1495.0
25°	1531.5	1522.4	1531.5	1561.0	1556.4	1613.2	1667.8	1679.2	1690.5	1658.7	1583.7
27.5°	1695.0	1681.4	1649.6	1651.9	1651.9	1717.7	1795.0	1810.9	1817.8	1790.5	1697.3
30°	2022.3	2022.3	1904.1	1824.5	1772.3	1831.4	1940.4	1967.7	1976.8	1935.9	1813.2
32.5°	2592.6	2592.6	2374.4	2172.2	1974.5	1974.5	2099.5	2149.4	2158.5	2110.9	1967.7
35°	3319.7	3315.1	2987.9	2710.7	2324.5	2179.0	2285.8	2369.9	2397.2	2333.6	2167.6
37.5°	4092.2	4062.6	3710.4	3392.3	2862.9	2506.2	2538.0	2649.3	2674.3	2622.1	2426.6
40°	4719.3	4685.2	4401.1	4135.4	3558.2	3028.8	2901.6	3003.8	3033.4	2960.6	2735.7
42.5°	5287.3	5203.2	5007.9	4817.0	4358.0	3933.1	3385.6	3426.5	3458.3	3381.0	3083.4
45°	5698.6	5569.0	5469.1	5410.1	5166.9	4926.0	4012.6	3930.9	3942.2	3846.8	3462.8
47.5°	5710.0	5619.1	5628.2	5782.6	5882.7	5873.6	4828.3	4537.5	4494.3	4335.3	3867.3
50°	5164.7	5216.9	5382.8	5823.6	6364.4	6691.5	5798.6	5255.5	5126.0	4839.7	4269.4
52.5°	4255.8	4337.6	4648.9	5391.9	6434.8	7230.0	6805.2	6075.8	5844.0	5339.6	4578.4
55°	3333.3	3337.8	3665.0	4421.6	5964.4	7327.7	7609.5	6977.9	6623.4	5719.0	4782.9
57.5°	2292.6	2417.5	2833.4	3342.4	4903.3	6841.5	7911.7	7677.7	7220.9	5953.1	4926.0
60°	1501.9	1508.8	1992.7	2581.2	3337.8	5566.8	7727.7	8048.1	7705.0	6091.7	5023.8
62°	1058.9	1070.2	1370.1	2108.6	2515.3	3989.9	7321.0	8125.3	7977.6	6173.5	5126.0
62.5°	981.6	990.6	1242.9	1990.5	2363.0	3578.7	7175.5	8107.1	8018.5	6200.7	5162.3
65°	720.3	720.3	813.5	1367.9	1731.3	1933.6	6080.3	7745.8	7964.0	6418.9	5298.7
67.5°	556.7	561.2	593.0	843.0	1306.5	1172.4	3880.9	6932.4	7395.9	6741.6	5375.9
70°	479.5	477.2	499.9	558.9	943.0	779.4	1708.6	5410.1	6194.0	6659.7	5305.5
72.5°	354.5	356.7	409.0	490.8	656.6	506.7	772.5	2872.0	4017.2	5212.3	4546.6
75°	227.2	229.4	288.6	386.3	472.6	331.7	445.4	856.6	1645.0	2890.2	2781.1
77.5°	152.2	156.8	188.6	270.4	413.6	206.7	279.5	359.0	495.3	1083.8	997.5
80°	102.3	102.3	120.4	181.8	261.3	172.7	150.0	238.6	256.8	336.2	168.2
82.5°	68.1	68.1	79.5	120.4	170.4	154.5	90.8	129.5	150.0	168.2	59.1
85°	40.9	40.9	54.5	75.0	111.3	86.3	59.1	72.7	77.2	106.8	31.8
87.5°	25.0	22.7	36.3	52.3	59.1	52.3	38.7	38.7	40.9	59.1	15.9
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°	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4
2.5°	1111.1	1108.8	1106.5	1102.0	1095.2	1090.7	1086.1	1081.6	1077.0	1077.0	1083.8
5°	1131.6	1124.7	1115.6	1106.5	1092.9	1083.8	1077.0	1068.0	1063.4	1063.4	1065.6
7.5°	1156.5	1149.7	1133.8	1117.9	1097.4	1081.6	1065.6	1045.1	1029.3	1022.4	1029.3
10°	1183.8	1174.8	1151.9	1127.0	1104.3	1063.4	1011.1	947.5	892.9	868.0	879.3
12.5°	1217.9	1206.6	1179.3	1145.2	1092.9	993.0	863.5	715.8	622.6	579.4	588.5
15°	1267.8	1252.0	1213.3	1161.0	1045.1	829.3	618.1	447.6	361.3	324.9	329.5
17.5°	1327.0	1306.5	1254.2	1156.5	922.5	597.6	368.1	261.3	224.9	215.8	215.8
20°	1390.6	1363.3	1295.2	1122.5	736.2	374.9	229.4	200.0	186.3	179.5	179.5
22.5°	1456.5	1420.1	1329.2	1042.9	524.9	234.1	188.6	168.2	152.2	145.5	145.5
25°	1536.0	1488.3	1363.3	904.3	334.0	188.6	161.3	140.9	125.0	115.9	118.2
27.5°	1629.2	1567.8	1392.8	731.6	215.8	163.6	134.1	113.6	99.9	95.4	95.4
30°	1726.8	1654.1	1399.7	547.6	174.9	140.9	111.3	93.2	84.1	79.5	79.5
32.5°	1861.0	1765.5	1379.2	363.6	147.7	118.2	93.2	77.2	70.5	68.1	68.1
35°	2038.1	1910.9	1331.5	224.9	125.0	97.7	77.2	68.1	61.4	59.1	59.1
37.5°	2263.1	2113.1	1247.4	154.5	106.8	79.5	65.9	59.1	54.5	52.3	52.3
40°	2563.0	2358.5	1138.3	134.1	90.8	68.1	56.8	52.3	47.7	47.7	47.7
42.5°	2881.1	2656.2	997.5	118.2	77.2	59.1	50.0	45.4	43.2	40.9	40.9
45°	3228.7	2960.6	822.6	104.5	65.9	52.3	45.4	38.7	36.3	36.3	36.3
47.5°	3574.1	3274.2	631.7	90.8	56.8	45.4	38.7	34.1	31.8	29.6	29.6
50°	3928.5	3558.2	463.5	79.5	50.0	40.9	34.1	29.6	25.0	22.7	22.7
52.5°	4185.3	3728.7	338.6	68.1	43.2	34.1	27.3	22.7	18.2	15.9	15.9
55°	4373.9	3833.1	247.7	56.8	38.7	29.6	22.7	18.2	13.6	13.6	11.4
57.5°	4521.6	3883.1	186.3	50.0	34.1	25.0	18.2	13.6	11.4	9.1	9.1
60°	4635.2	3885.4	138.6	40.9	29.6	20.5	13.6	9.1	6.9	6.9	6.9
62°	4785.2	3914.9	113.6	34.1	27.3	18.2	11.4	6.9	4.5	2.3	2.3
62.5°	4828.3	3926.3	109.0	34.1	25.0	15.9	9.1	6.9	4.5	2.3	2.3
65°	5028.3	3946.7	84.1	27.3	20.5	13.6	6.9	4.5	0.0	0.0	0.0
67.5°	5210.1	3914.9	61.4	20.5	15.9	9.1	6.9	2.3	0.0	0.0	0.0
70°	5191.9	3696.8	43.2	13.6	11.4	6.9	4.5	0.0	0.0	0.0	0.0
72.5°	4278.5	2767.5	29.6	11.4	6.9	4.5	2.3	0.0	0.0	0.0	0.0
75°	2583.5	1211.1	20.5	6.9	6.9	4.5	2.3	0.0	0.0	0.0	0.0
77.5°	847.5	438.5	13.6	4.5	4.5	2.3	2.3	0.0	0.0	0.0	0.0
80°	138.6	72.7	6.9	4.5	4.5	2.3	2.3	0.0	0.0	0.0	0.0
82.5°	43.2	18.2	4.5	4.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	15.9	6.9	4.5	4.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.5	4.5	4.5	2.3	2.3	0.0	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)