

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: P399250

Luminaire Tested: **ARCH-L-PA3-110-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-110-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10612 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

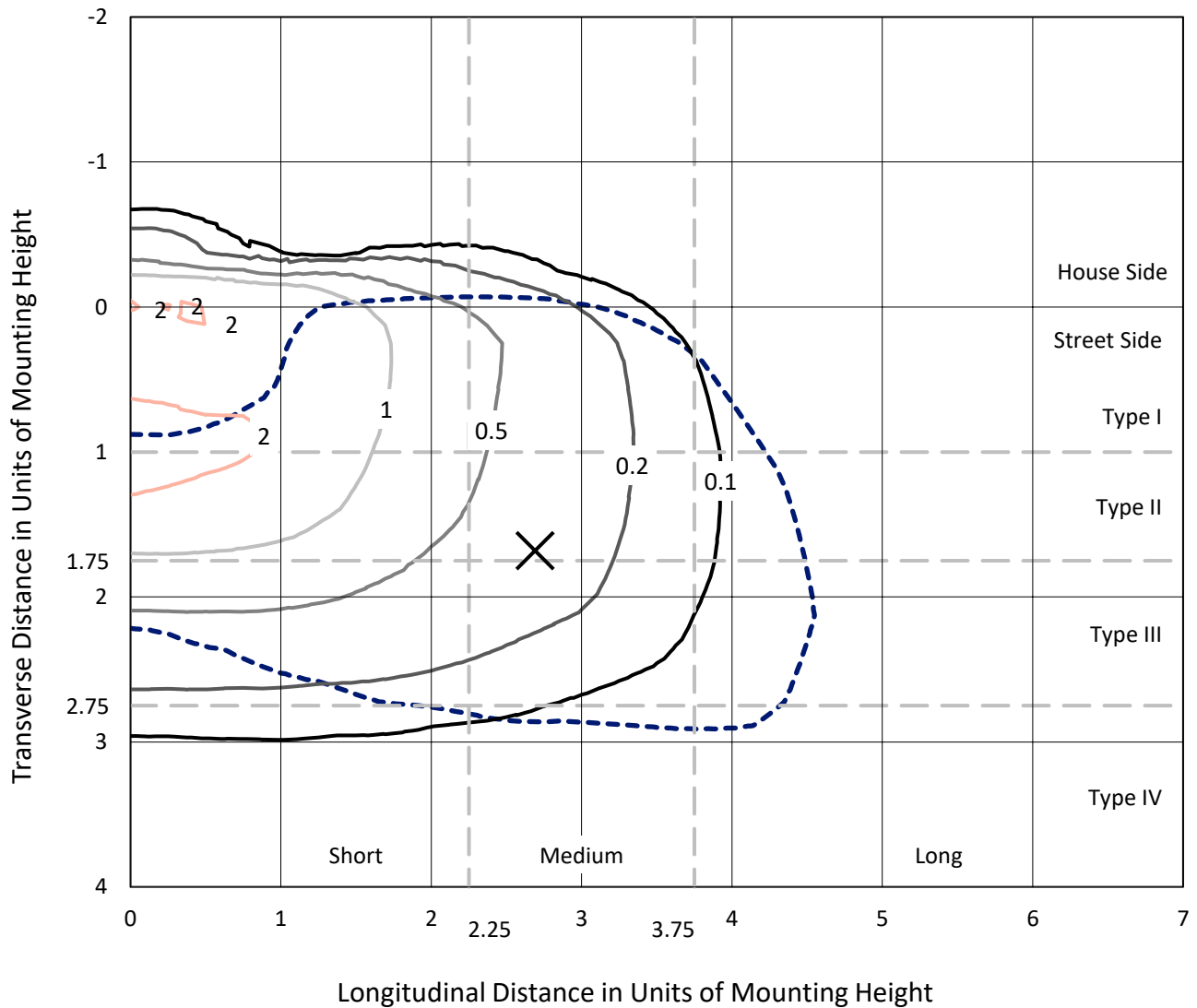
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

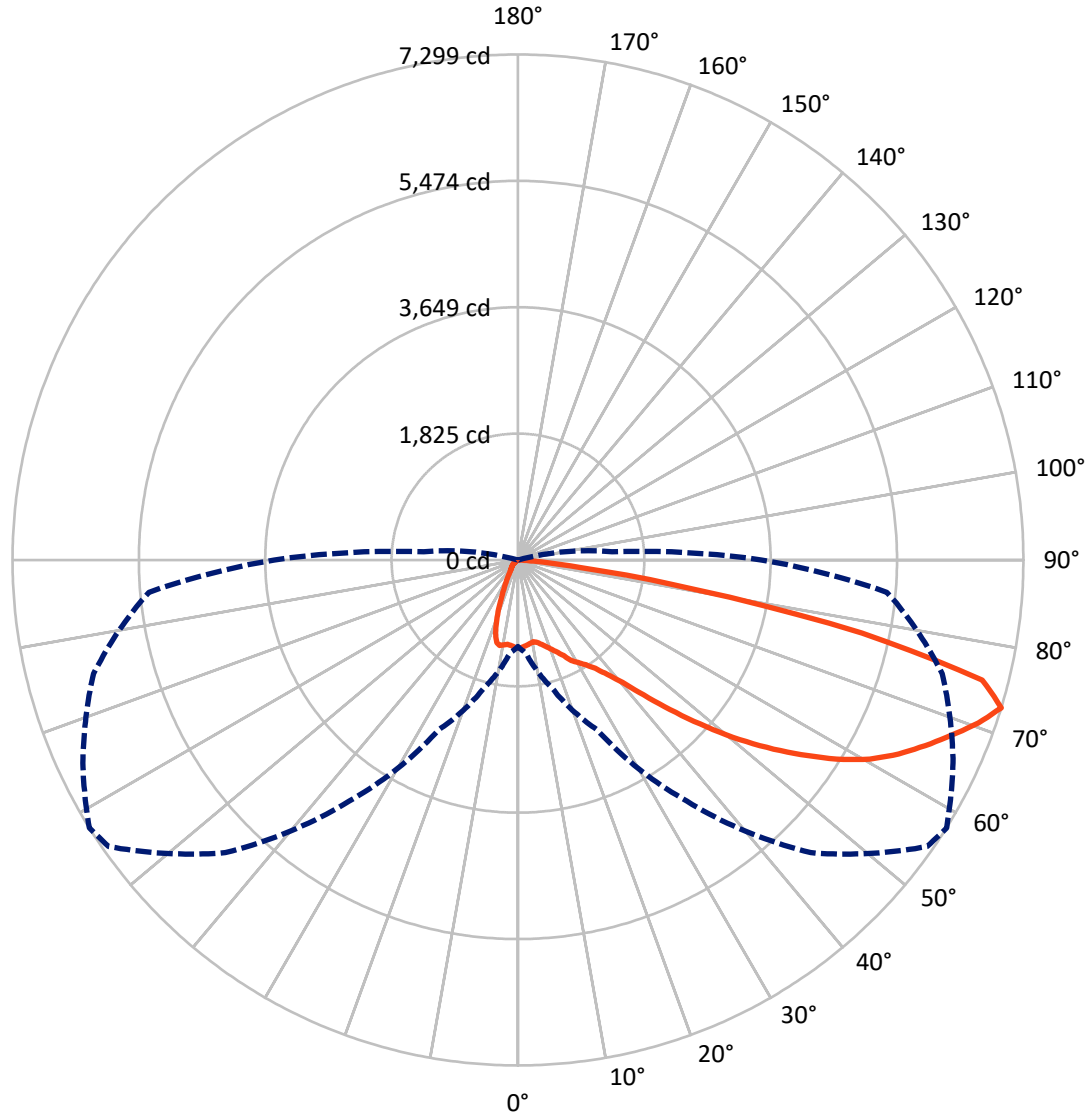
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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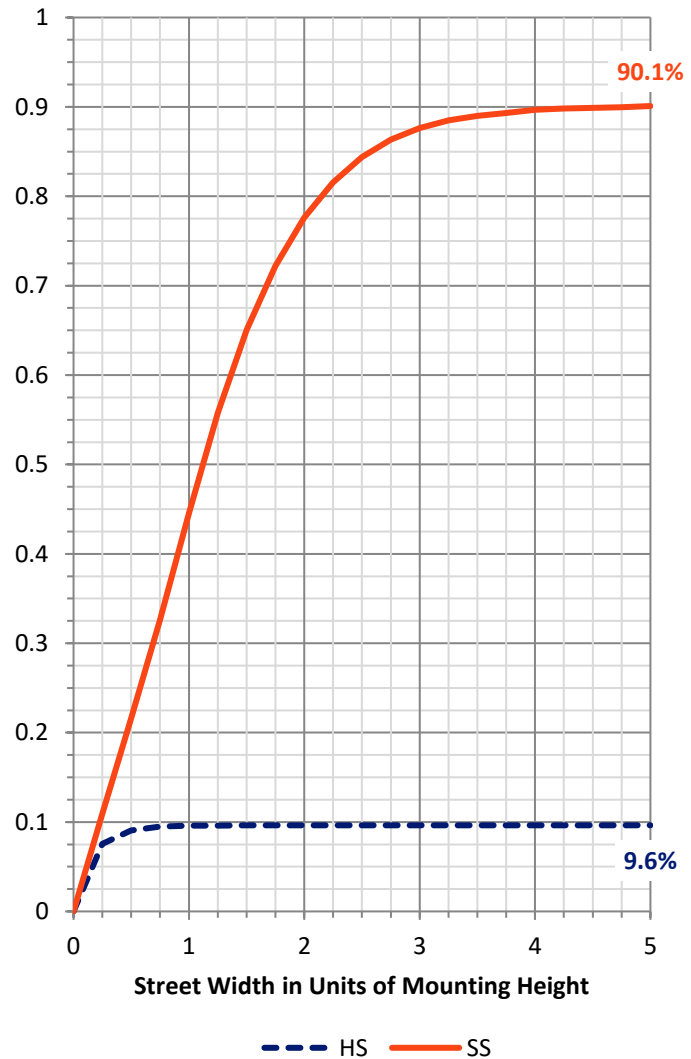
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.0	0.0	1032.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	9580.1	0.0	9580.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	10612.0	0.0	10612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	1.1
10°-20°	304.4	2.9
20°-30°	478.2	4.5
30°-40°	824.6	7.8
40°-50°	1568.9	14.8
50°-60°	2484.7	23.4
60°-70°	2899.3	27.3
70°-80°	1815.9	17.1
80°-90°	119.2	1.1
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°	10612.0	100.0
0°-180°	10612.0	100.0

Coefficient of Utilization



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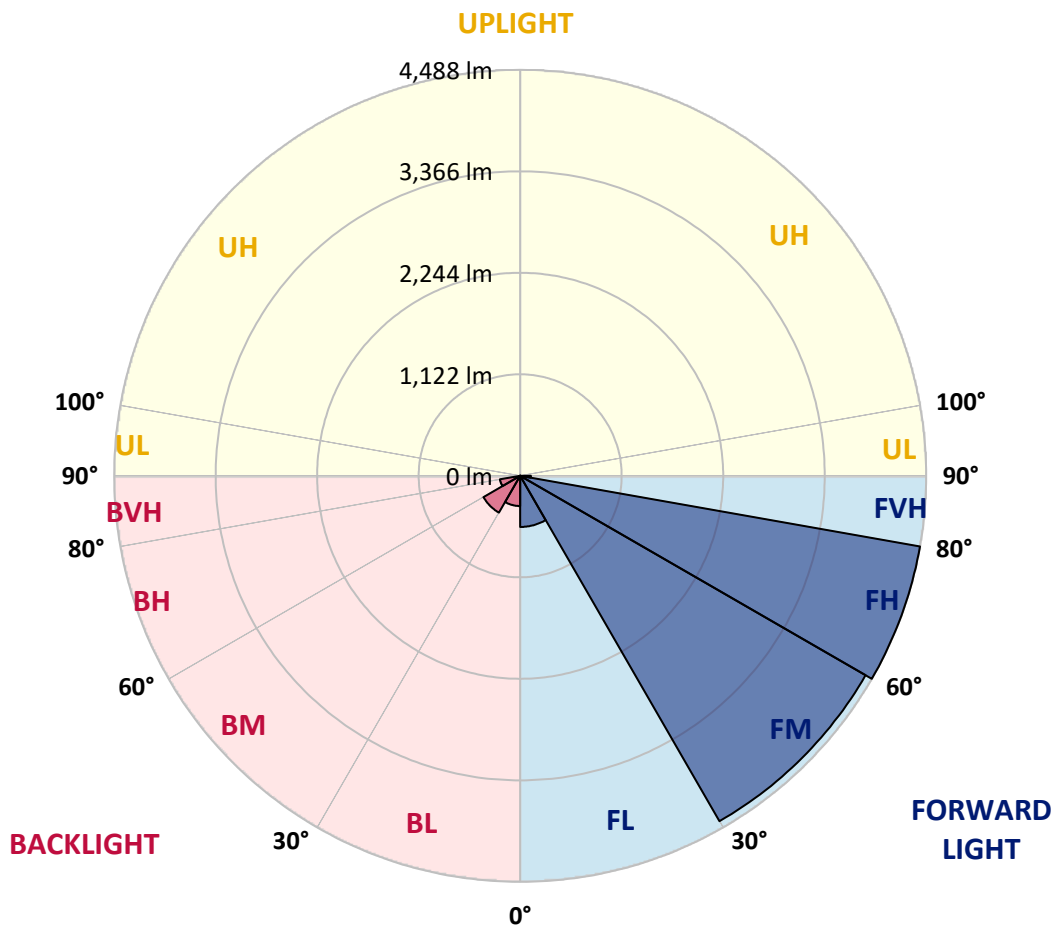
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.2	5.3			
FM (30°-60°)	4408.7	41.5			
FH (60°-80°)	4488.1	42.3			G2/5000
FVH (80°-90°)	118.0	1.1			G2/225
BL (0°-30°)	334.2	3.1	B1/500		
BM (30°-60°)	469.6	4.4	B1/1000		
BH (60°-80°)	227.1	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1267.7	1262.0	1260.1	1258.2	1260.1	1262.0	1256.3	1262.0	1258.2	1260.1	1263.9
5°	1222.1	1216.4	1214.5	1216.4	1222.1	1231.6	1235.4	1241.1	1241.1	1246.8	1248.7
7.5°	1170.9	1167.1	1165.2	1169.0	1180.4	1201.3	1212.6	1220.2	1227.8	1239.2	1250.6
10°	1142.4	1140.5	1138.6	1144.3	1155.7	1174.7	1189.9	1201.3	1229.7	1262.0	1282.9
12.5°	1123.5	1123.5	1127.3	1138.6	1153.8	1169.0	1205.1	1220.2	1263.9	1313.2	1341.7
15°	1108.3	1108.3	1114.0	1134.8	1155.7	1191.8	1244.9	1262.0	1313.2	1374.0	1411.9
17.5°	1096.9	1100.7	1104.5	1125.4	1165.2	1225.9	1288.6	1313.2	1375.9	1442.3	1484.0
20°	1098.8	1102.6	1104.5	1125.4	1182.3	1265.8	1345.5	1374.0	1446.1	1516.3	1558.0
22.5°	1110.2	1115.9	1117.8	1146.2	1212.6	1307.5	1410.0	1442.3	1520.1	1594.1	1626.4
25°	1157.6	1161.4	1150.0	1174.7	1256.3	1372.1	1493.5	1527.7	1605.5	1673.8	1700.4
27.5°	1318.9	1322.7	1260.1	1231.6	1290.5	1425.2	1596.0	1643.4	1740.2	1785.8	1789.6
30°	1668.1	1671.9	1548.5	1413.8	1372.1	1470.7	1652.9	1719.3	1844.6	1895.8	1873.1
32.5°	2117.9	2114.1	1945.2	1745.9	1565.6	1550.4	1734.5	1804.7	1941.4	1990.7	1973.6
35°	2569.5	2575.2	2431.0	2131.1	1873.1	1700.4	1838.9	1920.5	2085.6	2155.8	2125.5
37.5°	2878.9	2916.8	2854.2	2529.7	2250.7	1977.4	2007.8	2095.1	2301.9	2396.8	2332.3
40°	3315.3	3305.8	3154.0	2914.9	2668.2	2387.3	2281.1	2322.8	2560.0	2687.2	2586.6
42.5°	3901.7	3882.8	3624.7	3391.2	3116.1	2886.4	2670.1	2662.5	2856.1	3004.1	2858.0
45°	4433.1	4404.6	4228.1	4002.3	3700.6	3436.8	3144.5	3078.1	3212.9	3338.1	3167.3
47.5°	4856.3	4808.8	4683.6	4564.0	4490.0	4080.1	3641.7	3541.2	3609.5	3702.5	3461.5
50°	5357.3	5226.3	5044.2	4972.0	5125.8	4808.8	4120.0	4023.2	4019.4	4072.5	3765.1
52.5°	5585.0	5347.8	5245.3	5306.0	5577.4	5486.3	4636.1	4497.6	4442.6	4448.3	4047.9
55°	5309.8	5283.3	5338.3	5528.1	5883.0	5829.8	5131.5	4960.7	4879.1	4776.6	4319.2
57.5°	4996.7	5078.3	5296.6	5659.0	6270.1	6188.5	5619.2	5425.6	5275.7	5040.4	4621.0
60°	4708.3	4791.8	5152.3	5689.4	6482.6	6533.9	6025.3	5841.2	5619.2	5309.8	4953.1
62.5°	4269.9	4334.4	4841.1	5645.7	6389.6	6735.0	6308.0	6169.5	5962.7	5566.0	5334.5
65°	3776.5	3818.2	4319.2	5296.6	6207.5	6712.3	6541.5	6463.7	6262.5	5833.6	5712.2
67.5°	3235.6	3285.0	3702.5	4668.4	5850.7	6606.0	6761.6	6754.0	6524.4	6129.7	5985.4
70°	2613.2	2617.0	2962.4	3871.4	5228.2	6393.4	7034.9	7052.0	6774.9	6351.7	5996.8
72.5°	1250.6	1353.1	1920.5	2702.4	4249.0	5975.9	7213.3	7298.7	6932.4	6344.1	5349.7
75°	286.6	296.0	559.8	1284.8	2491.7	4586.8	6767.3	6926.7	6549.1	5486.3	3768.9
77.5°	104.4	110.1	157.5	375.8	958.4	2370.3	4843.0	5076.4	4841.1	3546.9	1782.0
80°	70.2	68.3	81.6	167.0	440.3	671.8	2476.5	2615.1	2387.3	1210.8	427.0
82.5°	36.1	38.0	56.9	93.0	296.0	233.4	827.4	899.5	740.1	242.9	79.7
85°	17.1	17.1	32.3	58.8	125.3	81.6	184.1	222.0	199.3	106.3	26.6
87.5°	17.1	17.1	30.4	38.0	64.5	34.2	45.5	56.9	53.1	56.9	9.5
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°	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1263.9	1262.0	1260.1	1263.9	1262.0	1265.8	1265.8	1269.6	1269.6	1265.8	1263.9
5°	1246.8	1243.0	1239.2	1239.2	1237.3	1241.1	1252.5	1262.0	1263.9	1258.2	1256.3
7.5°	1248.7	1248.7	1244.9	1237.3	1224.0	1224.0	1224.0	1235.4	1241.1	1237.3	1235.4
10°	1282.9	1284.8	1275.3	1258.2	1235.4	1214.5	1174.7	1115.9	1060.8	1045.6	1040.0
12.5°	1341.7	1343.6	1324.6	1294.3	1246.8	1123.5	971.6	831.2	723.0	692.7	687.0
15°	1411.9	1413.8	1379.6	1330.3	1186.1	899.5	673.7	514.3	419.4	396.6	394.7
17.5°	1484.0	1480.2	1429.0	1334.1	1005.8	637.6	409.9	328.3	303.6	297.9	299.8
20°	1554.2	1542.9	1472.6	1263.9	774.3	417.5	299.8	280.9	275.2	271.4	271.4
22.5°	1618.8	1596.0	1508.7	1125.4	542.8	299.8	267.6	263.8	256.2	250.5	248.6
25°	1683.3	1651.0	1531.5	945.1	364.4	261.9	252.4	244.8	235.3	227.7	225.8
27.5°	1761.1	1715.5	1520.1	717.3	273.3	242.9	235.3	223.9	210.6	199.3	195.5
30°	1835.1	1783.9	1455.6	495.3	233.4	223.9	212.5	195.5	178.4	165.1	161.3
32.5°	1928.1	1869.3	1339.8	324.5	203.1	195.5	184.1	163.2	140.4	125.3	121.5
35°	2060.9	1994.5	1191.8	227.7	178.4	165.1	149.9	127.1	102.5	91.1	89.2
37.5°	2246.9	2157.7	1005.8	184.1	157.5	138.5	115.8	93.0	75.9	66.4	64.5
40°	2474.6	2338.0	798.9	163.2	140.4	115.8	87.3	66.4	55.0	47.4	47.4
42.5°	2721.3	2506.9	588.3	149.9	123.4	94.9	64.5	47.4	39.9	36.1	34.2
45°	2975.6	2656.8	396.6	138.5	108.2	72.1	45.5	32.3	26.6	26.6	24.7
47.5°	3239.4	2757.4	256.2	125.3	91.1	53.1	30.4	22.8	19.0	19.0	19.0
50°	3501.3	2810.5	182.2	113.9	74.0	36.1	22.8	17.1	15.2	15.2	15.2
52.5°	3691.1	2776.4	146.1	98.7	56.9	26.6	17.1	13.3	11.4	11.4	11.4
55°	3856.2	2717.5	127.1	85.4	41.8	19.0	13.3	11.4	9.5	9.5	9.5
57.5°	4025.1	2641.6	113.9	72.1	30.4	13.3	9.5	7.6	7.6	7.6	7.6
60°	4178.8	2512.6	98.7	56.9	20.9	9.5	7.6	5.7	5.7	5.7	5.7
62.5°	4328.7	2402.5	85.4	43.6	15.2	7.6	3.8	3.8	1.9	1.9	1.9
65°	4414.1	2254.5	68.3	28.5	9.5	5.7	1.9	1.9	0.0	0.0	0.0
67.5°	4387.5	2078.0	47.4	17.1	5.7	3.8	1.9	0.0	0.0	0.0	0.0
70°	4203.5	1840.8	28.5	9.5	5.7	3.8	1.9	0.0	0.0	0.0	0.0
72.5°	3520.3	1362.6	17.1	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	2351.3	626.3	9.5	5.7	1.9	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	1076.0	187.9	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	216.3	49.3	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	0.0	0.0	0.0	0.0	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)