

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: P572655

Luminaire Tested: **ARCH-S-PA2-100-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572655
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-PA2-100-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA 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: 8701 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

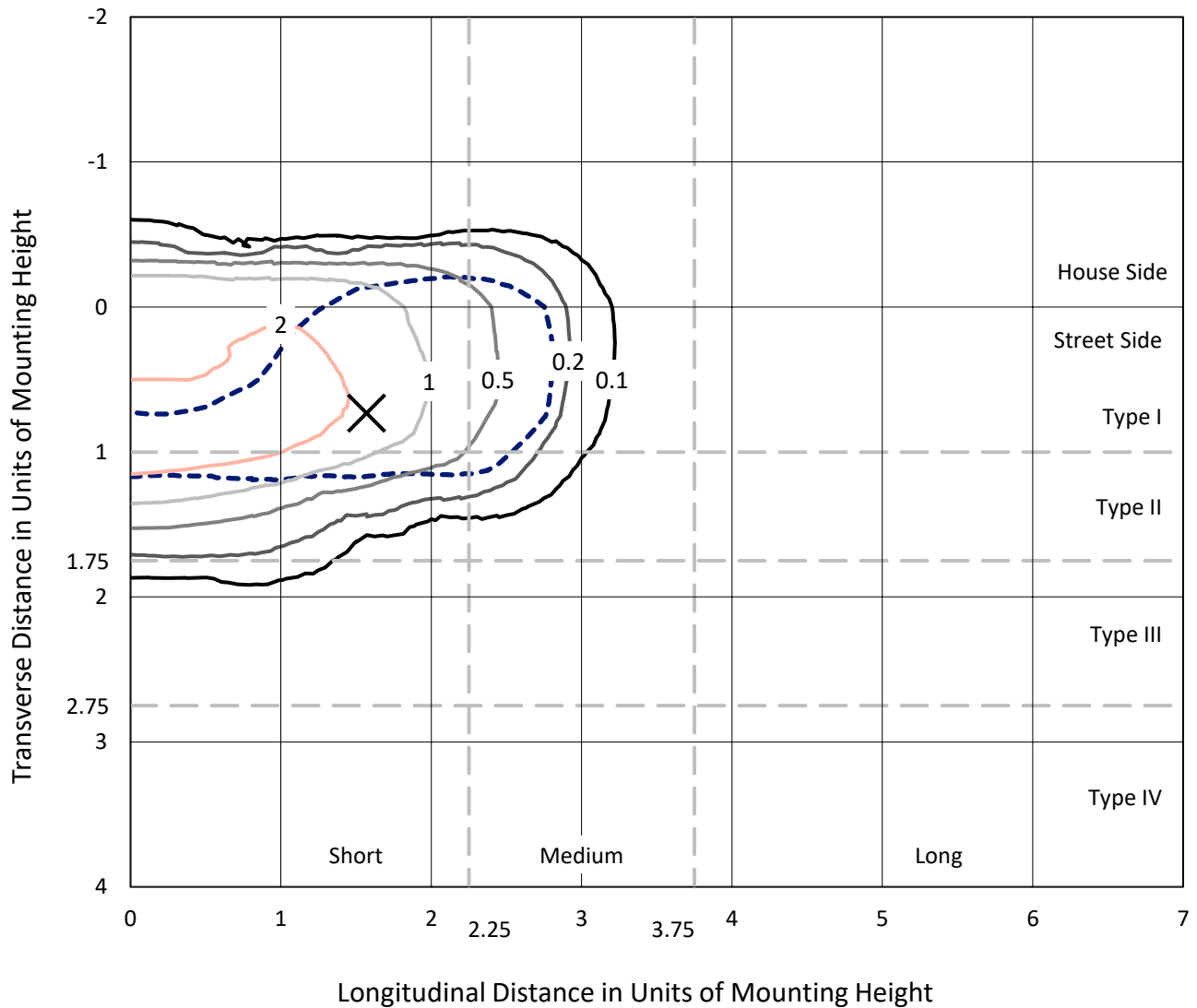
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

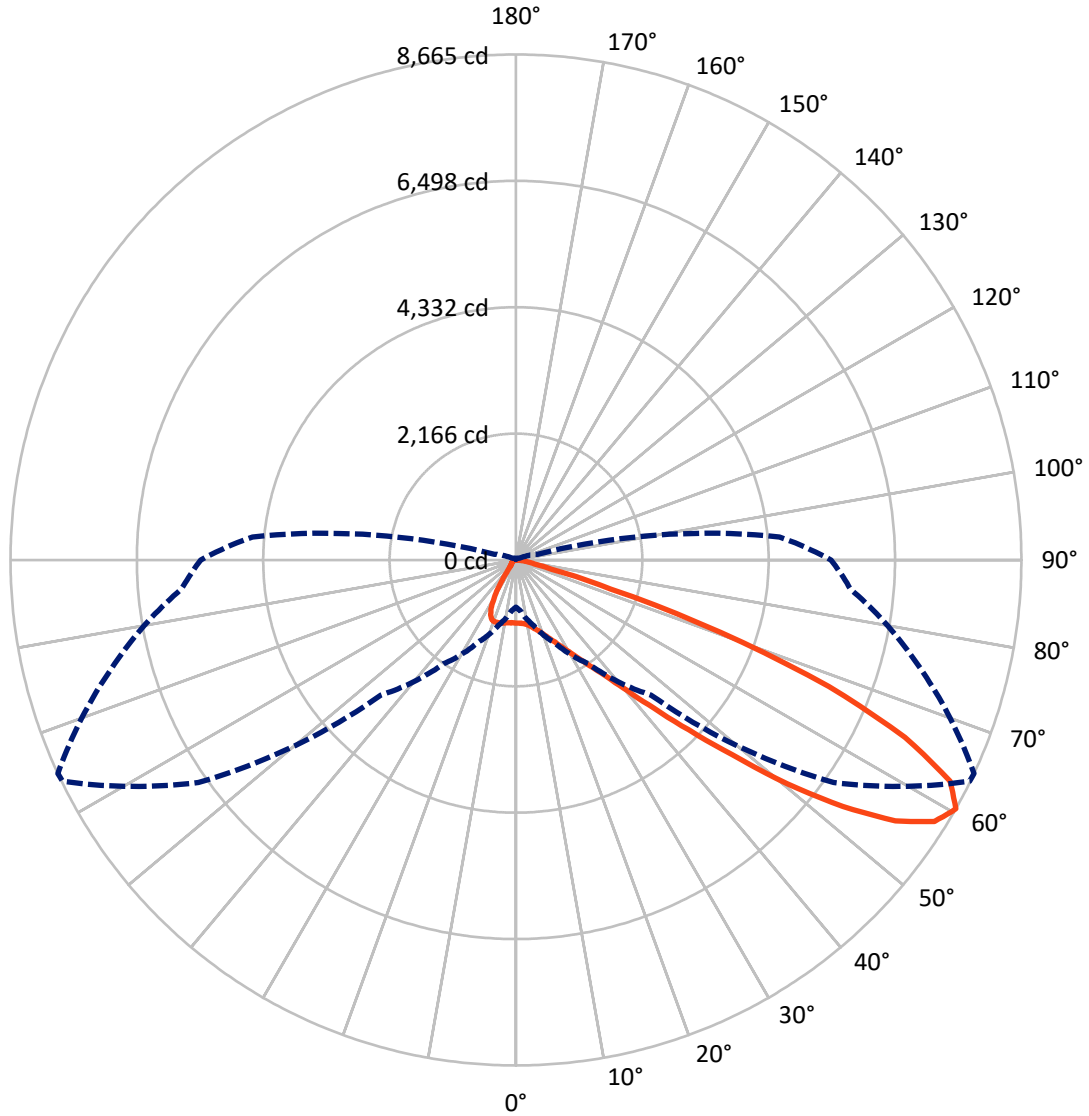
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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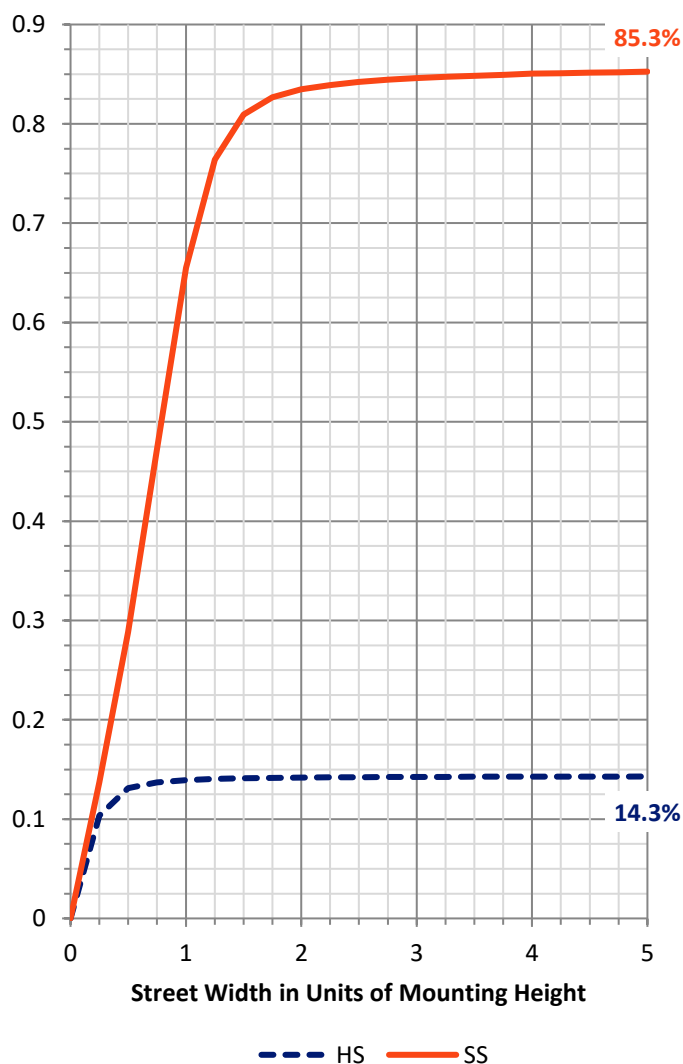
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1259.7	0.0	1259.7
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	7441.3	0.0	7441.3
	% Fixture	85.5	0.0	85.5
Total	Lumens	8701.0	0.0	8701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.2
10°-20°	290.6	3.3
20°-30°	493.7	5.7
30°-40°	1018.7	11.7
40°-50°	2048.8	23.5
50°-60°	2507.1	28.8
60°-70°	1773.6	20.4
70°-80°	427.4	4.9
80°-90°	38.6	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°	8701.0	100.0
0°-180°	8701.0	100.0

Coefficient of Utilization



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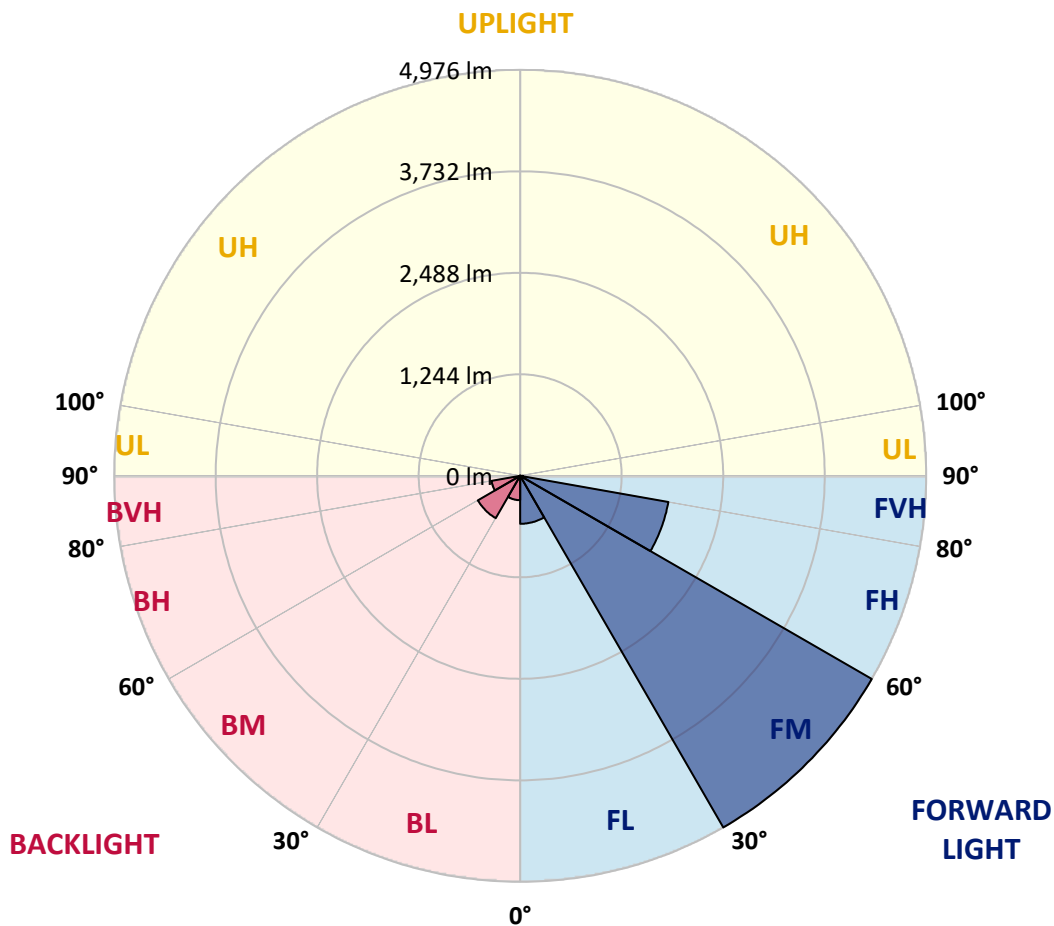
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.1	6.8			
FM (30°-60°)	4975.6	57.2			
FH (60°-80°)	1844.0	21.2			G2/5000
FVH (80°-90°)	33.6	0.4			G1/100
BL (0°-30°)	298.6	3.4	B1/500		
BM (30°-60°)	599.0	6.9	B1/1000		
BH (60°-80°)	357.1	4.1	B1/500		G1/500
BVH (80°-90°)	5.0	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°	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	1087.4	1083.9	1083.9	1083.9	1087.4	1087.4	1090.8	1083.9	1083.9	1083.9	1083.9
5°	1080.5	1077.1	1077.1	1080.5	1083.9	1083.9	1090.8	1090.8	1090.8	1094.2	1094.2
7.5°	1094.2	1087.4	1087.4	1090.8	1094.2	1094.2	1101.1	1104.5	1104.5	1111.4	1114.8
10°	1111.4	1107.9	1107.9	1114.8	1121.7	1121.7	1131.9	1131.9	1131.9	1138.8	1142.2
12.5°	1135.4	1131.9	1131.9	1142.2	1152.5	1159.4	1166.3	1169.7	1173.1	1173.1	1173.1
15°	1169.7	1166.3	1166.3	1176.5	1190.3	1207.4	1217.7	1217.7	1224.6	1221.1	1207.4
17.5°	1217.7	1214.3	1217.7	1224.6	1241.7	1258.9	1279.4	1282.9	1279.4	1272.6	1252.0
20°	1296.6	1286.3	1293.2	1310.3	1310.3	1320.6	1348.0	1358.3	1361.8	1341.2	1303.5
22.5°	1378.9	1378.9	1385.8	1406.4	1392.6	1406.4	1430.4	1447.5	1454.4	1437.2	1375.5
25°	1533.3	1540.1	1529.8	1523.0	1488.7	1495.5	1526.4	1560.7	1560.7	1547.0	1457.8
27.5°	1872.9	1866.0	1794.0	1694.5	1605.3	1612.2	1643.0	1687.6	1691.1	1660.2	1540.1
30°	2359.9	2366.8	2226.2	1999.8	1804.3	1752.8	1787.1	1838.6	1845.4	1794.0	1646.5
32.5°	3121.4	3063.1	2802.4	2500.6	2133.6	1948.3	1962.0	2016.9	2037.5	1992.9	1814.5
35°	4105.9	3968.7	3577.6	3203.8	2672.1	2298.2	2191.9	2250.2	2260.5	2236.5	2023.8
37.5°	4692.4	4582.7	4328.8	3989.3	3365.0	2764.7	2493.7	2552.0	2541.7	2493.7	2233.0
40°	5056.0	4994.3	4857.1	4699.3	4301.4	3498.8	2991.1	2943.1	2946.5	2877.9	2572.6
42.5°	5261.8	5207.0	5155.5	5196.7	5080.1	4829.7	3711.4	3491.9	3471.3	3341.0	2967.1
45°	5272.1	5189.8	5251.6	5491.7	5676.9	6009.6	4651.3	4143.6	4153.9	3937.8	3457.6
47.5°	4877.7	4812.5	4990.9	5460.8	6074.8	6781.4	5745.5	5035.5	4987.4	4562.1	3955.0
50°	4099.0	4095.6	4332.3	4997.7	6074.8	7179.3	6918.6	6081.7	6030.2	5213.8	4407.7
52.5°	3244.9	3310.1	3471.3	4102.5	5515.7	7141.6	7783.0	7162.2	7018.1	5793.5	4785.1
55°	2524.6	2500.6	2696.1	3131.7	4373.4	6489.8	8064.3	8012.8	7892.8	6308.0	5117.8
57.5°	1550.4	1639.6	1903.7	2291.3	3183.2	5104.1	7659.5	8530.8	8458.7	6788.3	5464.2
60°	806.1	874.7	1159.4	1564.1	2174.7	3272.4	6647.6	8650.8	8664.6	7175.9	5759.2
62.5°	507.7	504.2	634.6	1097.6	1399.5	1838.6	5162.4	8225.5	8355.8	7474.3	6040.5
65°	380.7	384.2	435.6	727.2	950.2	960.4	3063.1	7114.1	7330.2	7553.2	6136.5
67.5°	353.3	356.7	380.7	476.8	713.5	641.4	1348.0	5484.8	5786.7	6826.0	5766.1
70°	315.6	319.0	356.7	394.5	538.5	469.9	607.1	3303.2	3721.7	4953.1	4613.6
72.5°	247.0	253.8	298.4	373.9	401.3	356.7	421.9	1461.2	1704.8	2723.5	2641.2
75°	181.8	185.2	226.4	288.1	353.3	253.8	325.9	579.7	634.6	1022.2	871.3
77.5°	126.9	126.9	157.8	216.1	295.0	178.4	233.3	312.1	319.0	380.7	250.4
80°	78.9	82.3	99.5	147.5	181.8	171.5	144.1	209.2	209.2	198.9	102.9
82.5°	44.6	48.0	68.6	99.5	123.5	116.6	92.6	120.1	123.5	126.9	58.3
85°	20.6	24.0	41.2	61.7	72.0	54.9	54.9	61.7	61.7	82.3	34.3
87.5°	3.4	3.4	20.6	27.4	24.0	27.4	27.4	34.3	34.3	41.2	17.2
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°	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	1080.5	1080.5	1080.5	1077.1	1077.1	1073.6	1066.8	1066.8	1066.8	1066.8	1070.2
5°	1094.2	1090.8	1087.4	1077.1	1070.2	1056.5	1042.8	1039.3	1029.0	1029.0	1032.5
7.5°	1111.4	1111.4	1101.1	1083.9	1066.8	1042.8	1018.8	1001.6	984.5	981.0	977.6
10°	1142.2	1135.4	1125.1	1094.2	1066.8	1029.0	991.3	946.7	912.4	895.3	888.4
12.5°	1166.3	1162.8	1142.2	1107.9	1063.3	1005.0	919.3	816.4	734.1	689.5	689.5
15°	1200.6	1193.7	1162.8	1114.8	1053.1	915.8	740.9	583.1	493.9	445.9	439.1
17.5°	1234.9	1221.1	1183.4	1118.2	1008.5	754.6	518.0	373.9	312.1	288.1	281.3
20°	1276.0	1252.0	1197.1	1121.7	898.7	548.8	336.2	250.4	226.4	216.1	219.5
22.5°	1330.9	1289.7	1210.8	1101.1	734.1	356.7	236.7	202.4	188.7	178.4	178.4
25°	1399.5	1341.2	1234.9	1042.8	531.7	240.1	188.7	168.1	154.4	147.5	144.1
27.5°	1461.2	1389.2	1258.9	939.9	339.6	188.7	157.8	140.6	126.9	123.5	120.1
30°	1543.6	1444.1	1282.9	775.2	223.0	154.4	133.8	116.6	106.3	102.9	102.9
32.5°	1684.2	1550.4	1327.5	590.0	168.1	133.8	113.2	99.5	92.6	89.2	89.2
35°	1848.9	1680.8	1365.2	411.6	144.1	113.2	96.0	85.8	82.3	78.9	78.9
37.5°	2020.4	1835.1	1372.1	260.7	126.9	99.5	85.8	78.9	72.0	72.0	72.0
40°	2329.1	2106.1	1341.2	174.9	109.8	89.2	75.5	72.0	65.2	65.2	65.2
42.5°	2689.2	2435.4	1262.3	140.6	99.5	78.9	72.0	65.2	58.3	58.3	54.9
45°	3155.7	2809.3	1128.5	123.5	89.2	72.0	65.2	58.3	54.9	51.5	51.5
47.5°	3594.8	3234.6	1001.6	109.8	82.3	68.6	58.3	51.5	48.0	48.0	48.0
50°	4013.3	3560.5	854.1	102.9	75.5	65.2	54.9	48.0	44.6	41.2	41.2
52.5°	4315.1	3817.8	716.9	92.6	68.6	58.3	51.5	44.6	37.7	34.3	34.3
55°	4651.3	4078.4	593.4	82.3	65.2	54.9	44.6	37.7	30.9	27.4	27.4
57.5°	5028.6	4332.3	480.2	75.5	61.7	48.0	37.7	30.9	24.0	20.6	20.6
60°	5402.5	4534.7	384.2	68.6	54.9	44.6	34.3	24.0	17.2	13.7	13.7
62.5°	5776.4	4671.9	295.0	61.7	51.5	37.7	27.4	17.2	10.3	6.9	6.9
65°	5930.7	4634.1	219.5	54.9	44.6	30.9	24.0	17.2	10.3	6.9	6.9
67.5°	5502.0	4167.6	154.4	54.9	41.2	30.9	20.6	13.7	6.9	3.4	3.4
70°	4294.5	3217.5	113.2	54.9	41.2	30.9	20.6	13.7	6.9	3.4	3.4
72.5°	2435.4	1790.5	85.8	48.0	37.7	27.4	20.6	13.7	6.9	3.4	3.4
75°	867.8	576.3	65.2	44.6	34.3	24.0	20.6	13.7	6.9	3.4	3.4
77.5°	209.2	147.5	51.5	37.7	30.9	24.0	17.2	13.7	10.3	3.4	3.4
80°	85.8	61.7	41.2	30.9	24.0	20.6	17.2	13.7	6.9	3.4	3.4
82.5°	37.7	30.9	17.2	17.2	13.7	13.7	13.7	13.7	6.9	3.4	3.4
85°	17.2	13.7	6.9	6.9	3.4	3.4	3.4	6.9	6.9	3.4	3.4
87.5°	10.3	6.9	6.9	6.9	3.4	3.4	3.4	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)