

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: P399169

Luminaire Tested: **ARCH-L-PA3-100-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399169
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-PA3-100-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 440mA 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: 8981 lumens
Efficiency: N/A
Efficacy: 88.0 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

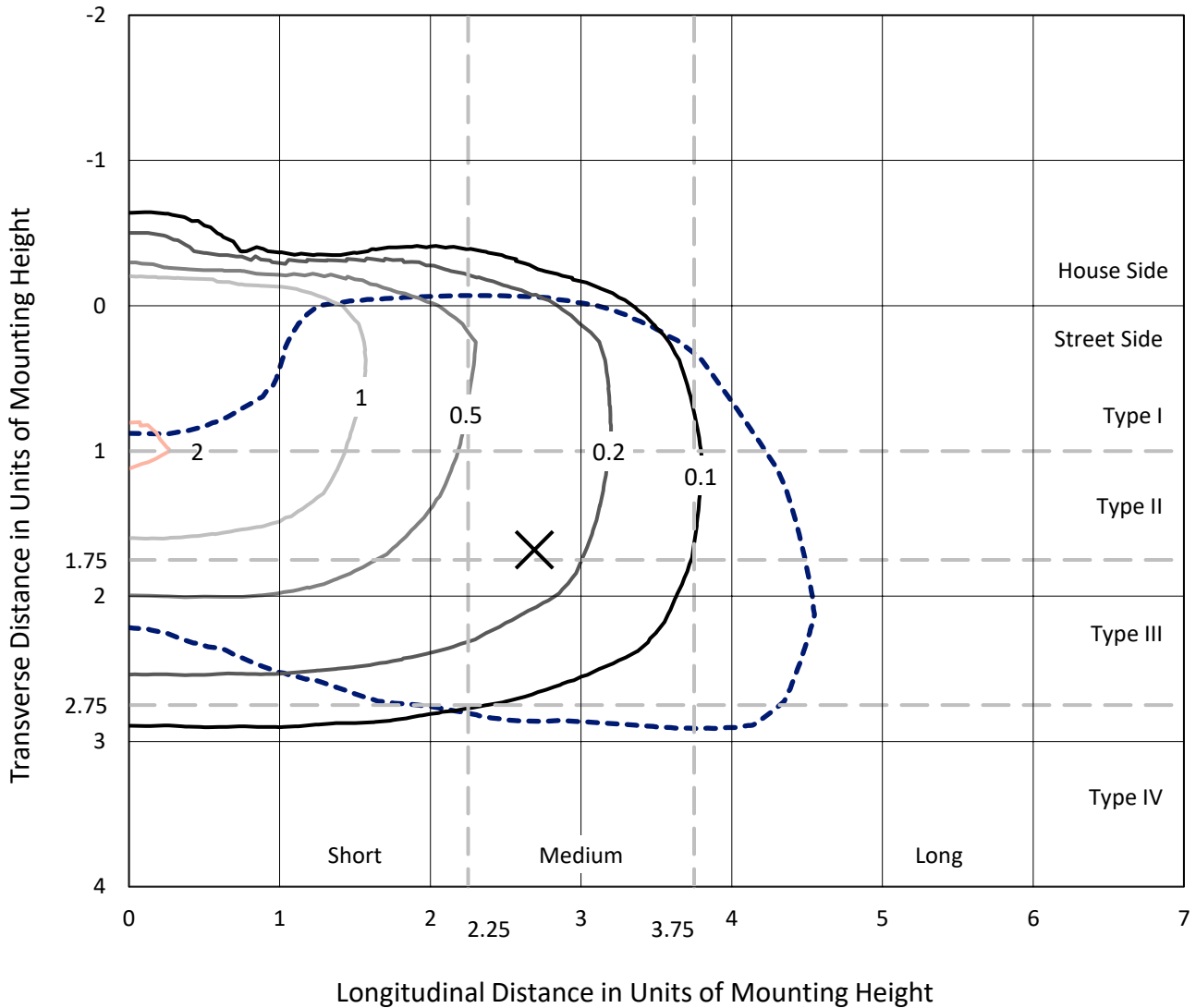
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

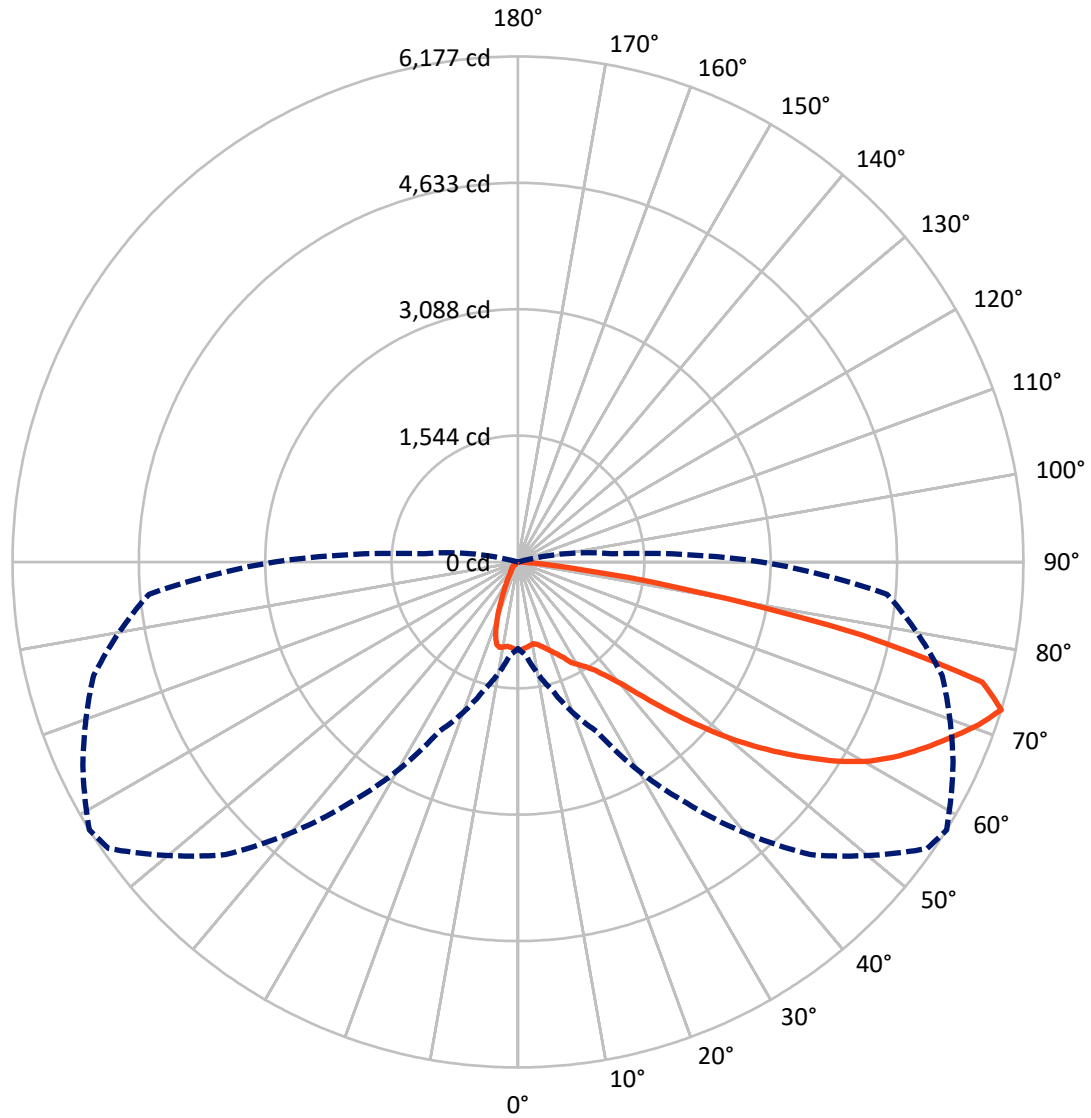
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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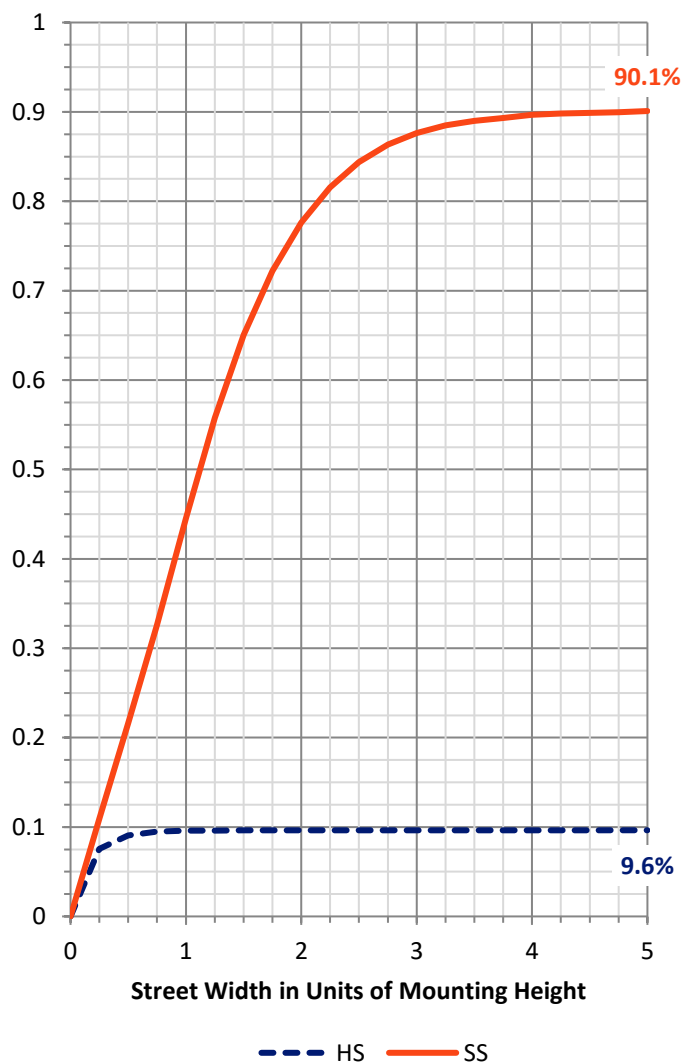
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.3	0.0	873.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	8107.7	0.0	8107.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	8981.0	0.0	8981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	1.1
10°-20°	257.6	2.9
20°-30°	404.7	4.5
30°-40°	697.9	7.8
40°-50°	1327.8	14.8
50°-60°	2102.8	23.4
60°-70°	2453.7	27.3
70°-80°	1536.8	17.1
80°-90°	100.9	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°	8981.0	100.0
0°-180°	8981.0	100.0

Coefficient of Utilization

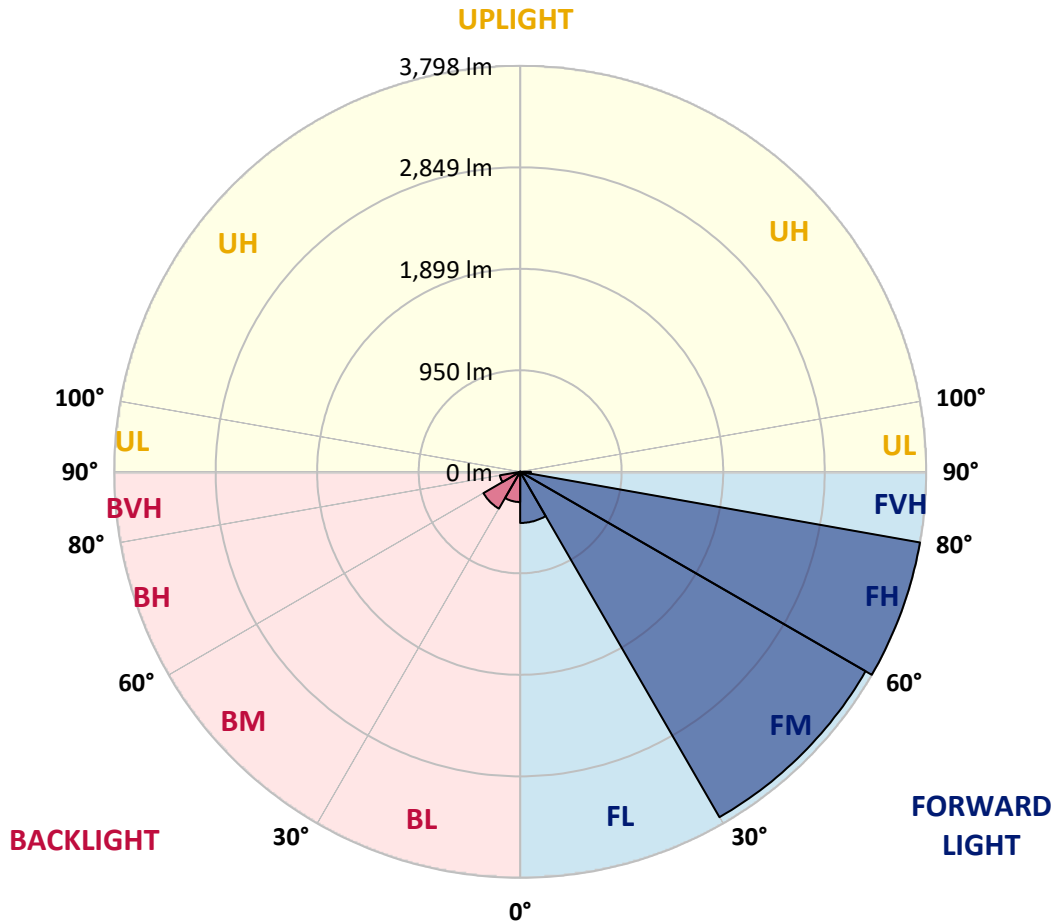


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.4	5.3			
FM (30°-60°)	3731.1	41.5			
FH (60°-80°)	3798.3	42.3			G2/5000
FVH (80°-90°)	99.9	1.1			G1/100
BL (0°-30°)	282.8	3.1	B1/500		
BM (30°-60°)	397.4	4.4	B1/1000		
BH (60°-80°)	192.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.0	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7
2.5°	1072.8	1068.0	1066.4	1064.8	1066.4	1068.0	1063.2	1068.0	1064.8	1066.4	1069.6
5°	1034.3	1029.5	1027.9	1029.5	1034.3	1042.3	1045.5	1050.4	1050.4	1055.2	1056.8
7.5°	990.9	987.7	986.1	989.3	999.0	1016.6	1026.3	1032.7	1039.1	1048.8	1058.4
10°	966.8	965.2	963.6	968.5	978.1	994.2	1007.0	1016.6	1040.7	1068.0	1085.7
12.5°	950.8	950.8	954.0	963.6	976.5	989.3	1019.8	1032.7	1069.6	1111.4	1135.5
15°	937.9	937.9	942.8	960.4	978.1	1008.6	1053.6	1068.0	1111.4	1162.8	1194.9
17.5°	928.3	931.5	934.7	952.4	986.1	1037.5	1090.5	1111.4	1164.4	1220.6	1255.9
20°	929.9	933.1	934.7	952.4	1000.6	1071.2	1138.7	1162.8	1223.8	1283.2	1318.6
22.5°	939.5	944.4	946.0	970.1	1026.3	1106.6	1193.3	1220.6	1286.5	1349.1	1376.4
25°	979.7	982.9	973.3	994.2	1063.2	1161.2	1264.0	1292.9	1358.7	1416.5	1439.0
27.5°	1116.2	1119.4	1066.4	1042.3	1092.1	1206.1	1350.7	1390.8	1472.8	1511.3	1514.5
30°	1411.7	1414.9	1310.5	1196.5	1161.2	1244.7	1398.9	1455.1	1561.1	1604.5	1585.2
32.5°	1792.4	1789.1	1646.2	1477.6	1325.0	1312.1	1467.9	1527.4	1643.0	1684.8	1670.3
35°	2174.6	2179.4	2057.4	1803.6	1585.2	1439.0	1556.3	1625.3	1765.1	1824.5	1798.8
37.5°	2436.4	2468.5	2415.5	2140.9	1904.8	1673.5	1699.2	1773.1	1948.1	2028.5	1973.8
40°	2805.8	2797.8	2669.3	2466.9	2258.1	2020.4	1930.5	1965.8	2166.6	2274.2	2189.1
42.5°	3302.1	3286.0	3067.6	2870.0	2637.1	2442.8	2259.7	2253.3	2417.1	2542.4	2418.7
45°	3751.8	3727.7	3578.3	3387.2	3131.8	2908.6	2661.2	2605.0	2719.1	2825.1	2680.5
47.5°	4109.9	4069.8	3963.8	3862.6	3799.9	3453.0	3082.0	2996.9	3054.7	3133.4	2929.5
50°	4533.9	4423.1	4268.9	4207.9	4338.0	4069.8	3486.8	3404.8	3401.6	3446.6	3186.4
52.5°	4726.6	4525.9	4439.1	4490.5	4720.2	4643.1	3923.6	3806.4	3759.8	3764.6	3425.7
55°	4493.8	4471.3	4517.8	4678.4	4978.8	4933.8	4342.8	4198.2	4129.2	4042.4	3655.4
57.5°	4228.8	4297.8	4482.5	4789.3	5306.4	5237.4	4755.5	4591.7	4464.8	4265.7	3910.8
60°	3984.6	4055.3	4360.4	4815.0	5486.3	5529.7	5099.2	4943.4	4755.5	4493.8	4191.8
62.5°	3613.6	3668.2	4097.1	4778.0	5407.6	5699.9	5338.5	5221.3	5046.2	4710.6	4514.6
65°	3196.1	3231.4	3655.4	4482.5	5253.4	5680.6	5536.1	5470.2	5300.0	4937.0	4834.2
67.5°	2738.3	2780.1	3133.4	3950.9	4951.5	5590.7	5722.4	5716.0	5521.6	5187.6	5065.5
70°	2211.5	2214.8	2507.1	3276.4	4424.7	5410.8	5953.7	5968.1	5733.6	5375.5	5075.1
72.5°	1058.4	1145.1	1625.3	2287.0	3596.0	5057.5	6104.6	6176.9	5866.9	5369.1	4527.5
75°	242.5	250.5	473.8	1087.3	2108.8	3881.8	5727.2	5862.1	5542.5	4643.1	3189.6
77.5°	88.3	93.2	133.3	318.0	811.1	2006.0	4098.7	4296.2	4097.1	3001.7	1508.1
80°	59.4	57.8	69.1	141.3	372.6	568.5	2095.9	2213.1	2020.4	1024.7	361.4
82.5°	30.5	32.1	48.2	78.7	250.5	197.5	700.2	761.3	626.4	205.6	67.5
85°	14.5	14.5	27.3	49.8	106.0	69.1	155.8	187.9	168.6	89.9	22.5
87.5°	14.5	14.5	25.7	32.1	54.6	28.9	38.5	48.2	45.0	48.2	8.0
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°	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7	1077.7
2.5°	1069.6	1068.0	1066.4	1069.6	1068.0	1071.2	1071.2	1074.5	1074.5	1071.2	1069.6
5°	1055.2	1052.0	1048.8	1048.8	1047.2	1050.4	1060.0	1068.0	1069.6	1064.8	1063.2
7.5°	1056.8	1056.8	1053.6	1047.2	1035.9	1035.9	1035.9	1045.5	1050.4	1047.2	1045.5
10°	1085.7	1087.3	1079.3	1064.8	1045.5	1027.9	994.2	944.4	897.8	884.9	880.1
12.5°	1135.5	1137.1	1121.0	1095.3	1055.2	950.8	822.3	703.5	611.9	586.2	581.4
15°	1194.9	1196.5	1167.6	1125.8	1003.8	761.3	570.2	435.2	354.9	335.7	334.1
17.5°	1255.9	1252.7	1209.4	1129.1	851.2	539.6	346.9	277.8	257.0	252.2	253.8
20°	1315.4	1305.7	1246.3	1069.6	655.3	353.3	253.8	237.7	232.9	229.7	229.7
22.5°	1370.0	1350.7	1276.8	952.4	459.3	253.8	226.5	223.2	216.8	212.0	210.4
25°	1424.6	1397.3	1296.1	799.8	308.4	221.6	213.6	207.2	199.2	192.7	191.1
27.5°	1490.4	1451.9	1286.5	607.1	231.3	205.6	199.2	189.5	178.3	168.6	165.4
30°	1553.1	1509.7	1231.8	419.2	197.5	189.5	179.9	165.4	151.0	139.7	136.5
32.5°	1631.8	1582.0	1133.9	274.6	171.8	165.4	155.8	138.1	118.8	106.0	102.8
35°	1744.2	1688.0	1008.6	192.7	151.0	139.7	126.9	107.6	86.7	77.1	75.5
37.5°	1901.6	1826.1	851.2	155.8	133.3	117.2	98.0	78.7	64.2	56.2	54.6
40°	2094.3	1978.7	676.2	138.1	118.8	98.0	73.9	56.2	46.6	40.2	40.2
42.5°	2303.1	2121.6	497.9	126.9	104.4	80.3	54.6	40.2	33.7	30.5	28.9
45°	2518.3	2248.5	335.7	117.2	91.5	61.0	38.5	27.3	22.5	22.5	20.9
47.5°	2741.5	2333.6	216.8	106.0	77.1	45.0	25.7	19.3	16.1	16.1	16.1
50°	2963.2	2378.6	154.2	96.4	62.6	30.5	19.3	14.5	12.8	12.8	12.8
52.5°	3123.8	2349.7	123.7	83.5	48.2	22.5	14.5	11.2	9.6	9.6	9.6
55°	3263.5	2299.9	107.6	72.3	35.3	16.1	11.2	9.6	8.0	8.0	8.0
57.5°	3406.5	2235.6	96.4	61.0	25.7	11.2	8.0	6.4	6.4	6.4	6.4
60°	3536.5	2126.4	83.5	48.2	17.7	8.0	6.4	4.8	4.8	4.8	4.8
62.5°	3663.4	2033.3	72.3	36.9	12.8	6.4	3.2	3.2	1.6	1.6	1.6
65°	3735.7	1908.0	57.8	24.1	8.0	4.8	1.6	1.6	0.0	0.0	0.0
67.5°	3713.2	1758.6	40.2	14.5	4.8	3.2	1.6	0.0	0.0	0.0	0.0
70°	3557.4	1557.9	24.1	8.0	4.8	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	2979.2	1153.2	14.5	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	1989.9	530.0	8.0	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	910.6	159.0	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	183.1	41.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.5	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	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)