

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: P397549

Luminaire Tested: **ARCH-S-PA1-100-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397549
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-S-PA1-100-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE 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: 7698 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

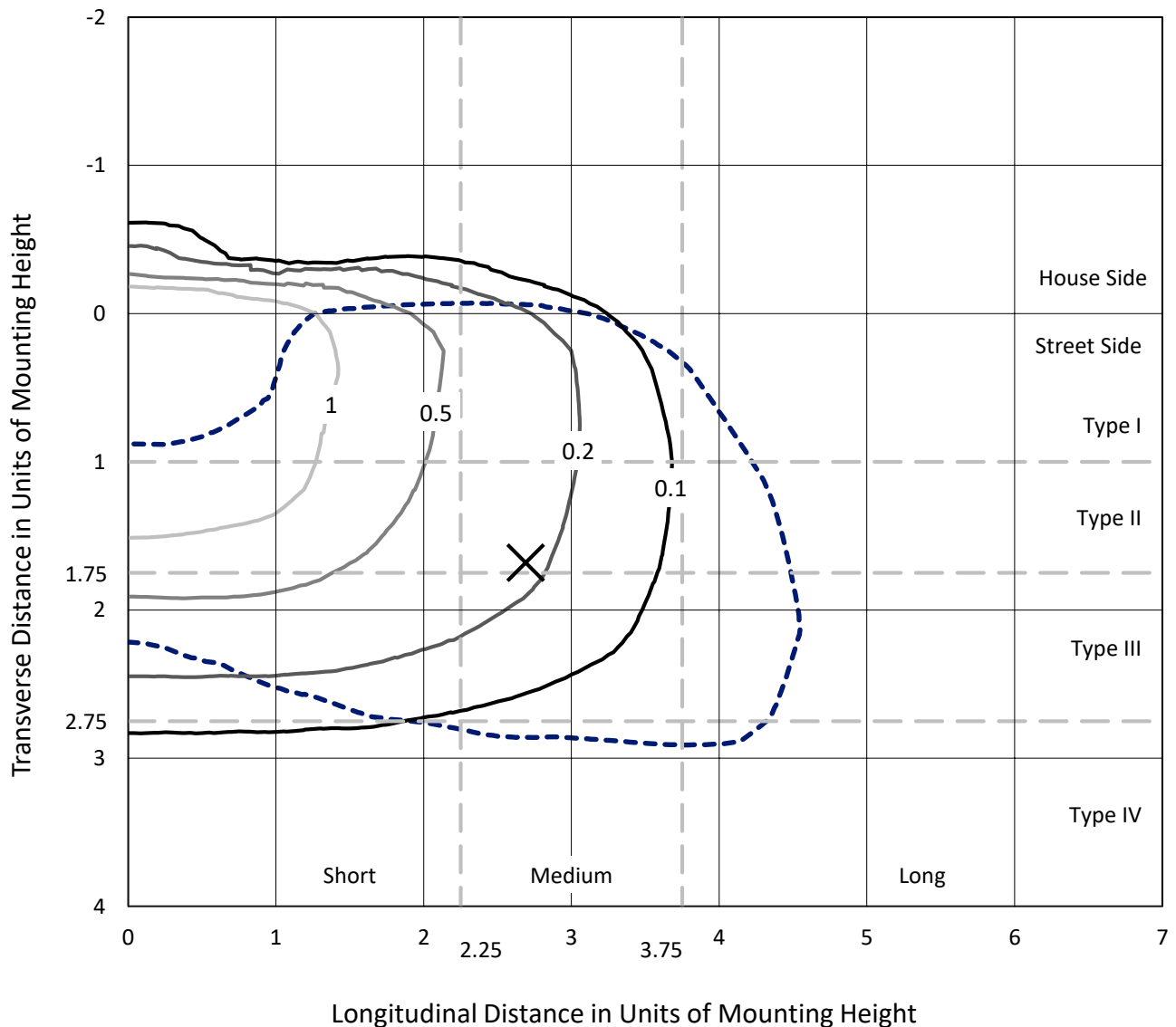
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

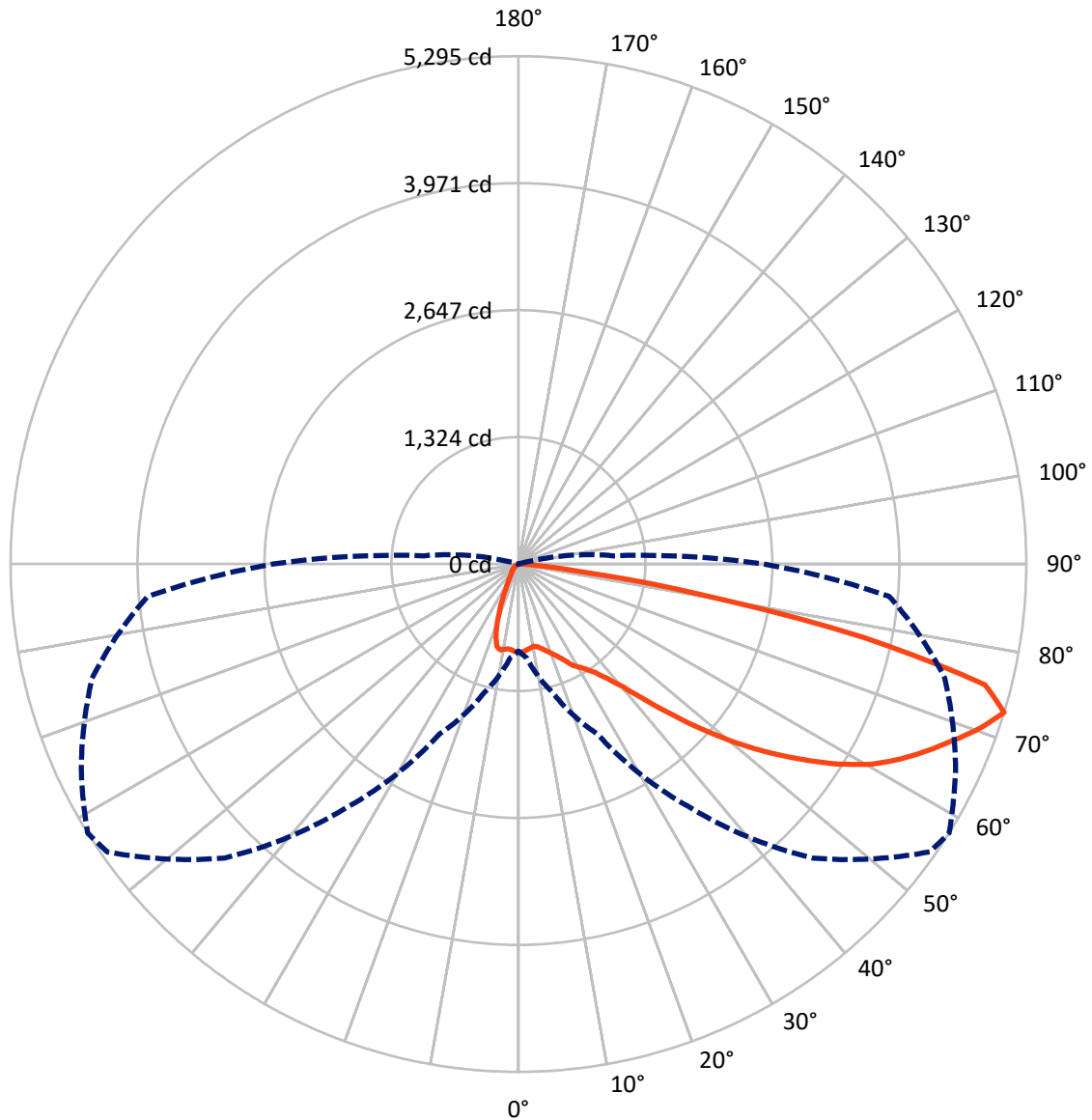
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - Non-Cutoff

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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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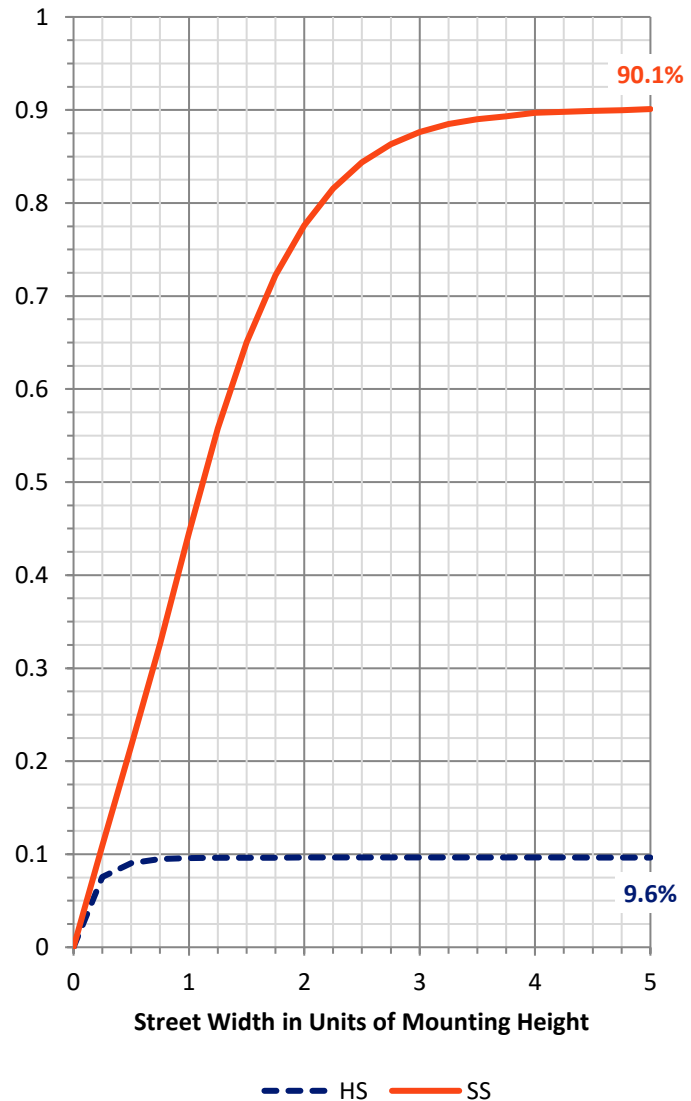
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.6	0.0	748.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6949.4	0.0	6949.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	7698.0	0.0	7698.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.1
10°-20°	220.8	2.9
20°-30°	346.9	4.5
30°-40°	598.2	7.8
40°-50°	1138.1	14.8
50°-60°	1802.4	23.4
60°-70°	2103.2	27.3
70°-80°	1317.2	17.1
80°-90°	86.5	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°	7698.0	100.0
0°-180°	7698.0	100.0



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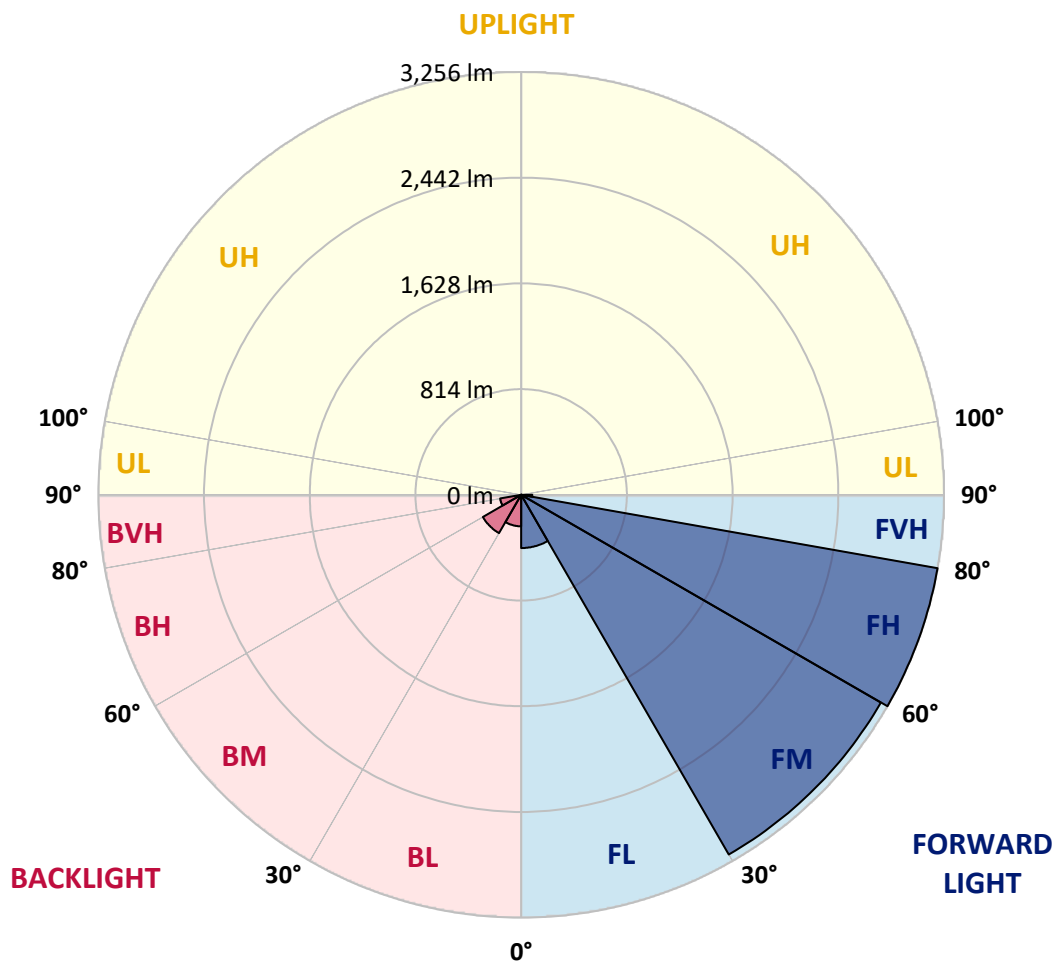
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.0	5.3			
FM (30°-60°)	3198.1	41.5			
FH (60°-80°)	3255.7	42.3			G2/5000
FVH (80°-90°)	85.6	1.1			G1/100
BL (0°-30°)	242.4	3.1	B1/500		
BM (30°-60°)	340.6	4.4	B1/1000		
BH (60°-80°)	164.7	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	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°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
2.5°	919.6	915.5	914.1	912.7	914.1	915.5	911.3	915.5	912.7	914.1	916.8
5°	886.5	882.4	881.0	882.4	886.5	893.4	896.2	900.3	900.3	904.4	905.8
7.5°	849.4	846.6	845.2	848.0	856.3	871.4	879.7	885.2	890.7	898.9	907.2
10°	828.7	827.3	826.0	830.1	838.4	852.1	863.1	871.4	892.1	915.5	930.6
12.5°	815.0	815.0	817.7	826.0	837.0	848.0	874.2	885.2	916.8	952.6	973.3
15°	803.9	803.9	808.1	823.2	838.4	864.5	903.1	915.5	952.6	996.7	1024.2
17.5°	795.7	798.4	801.2	816.3	845.2	889.3	934.7	952.6	998.1	1046.2	1076.5
20°	797.1	799.8	801.2	816.3	857.6	918.2	976.0	996.7	1049.0	1099.9	1130.2
22.5°	805.3	809.5	810.8	831.5	879.7	948.5	1022.8	1046.2	1102.7	1156.4	1179.8
25°	839.7	842.5	834.2	852.1	911.3	995.3	1083.4	1108.2	1164.6	1214.2	1233.5
27.5°	956.8	959.5	914.1	893.4	936.1	1033.8	1157.7	1192.2	1262.4	1295.4	1298.2
30°	1210.1	1212.8	1123.3	1025.6	995.3	1066.9	1199.0	1247.2	1338.1	1375.2	1358.7
32.5°	1536.3	1533.6	1411.0	1266.5	1135.7	1124.7	1258.2	1309.2	1408.3	1444.1	1431.7
35°	1863.9	1868.1	1763.5	1545.9	1358.7	1233.5	1333.9	1393.1	1512.9	1563.8	1541.8
37.5°	2088.3	2115.9	2070.4	1835.0	1632.7	1434.4	1456.5	1519.8	1669.8	1738.7	1691.9
40°	2405.0	2398.1	2287.9	2114.5	1935.5	1731.8	1654.7	1685.0	1857.1	1949.3	1876.3
42.5°	2830.3	2816.6	2629.3	2460.0	2260.4	2093.8	1936.9	1931.4	2071.8	2179.2	2073.2
45°	3215.8	3195.1	3067.1	2903.3	2684.4	2493.1	2281.1	2232.9	2330.6	2421.5	2297.6
47.5°	3522.8	3488.4	3397.5	3310.8	3257.1	2959.7	2641.7	2568.8	2618.3	2685.8	2511.0
50°	3886.2	3791.2	3659.1	3606.7	3718.3	3488.4	2988.6	2918.4	2915.7	2954.2	2731.2
52.5°	4051.4	3879.3	3805.0	3849.0	4045.9	3979.8	3363.1	3262.6	3222.7	3226.8	2936.3
55°	3851.8	3832.5	3872.4	4010.1	4267.5	4229.0	3722.4	3598.5	3539.3	3465.0	3133.2
57.5°	3624.6	3683.8	3842.2	4105.1	4548.4	4489.2	4076.2	3935.8	3827.0	3656.3	3352.1
60°	3415.4	3476.0	3737.5	4127.1	4702.5	4739.7	4370.8	4237.2	4076.2	3851.8	3593.0
62.5°	3097.4	3144.2	3511.8	4095.4	4635.1	4885.6	4575.9	4475.4	4325.3	4037.6	3869.7
65°	2739.5	2769.8	3133.2	3842.2	4502.9	4869.1	4745.2	4688.8	4542.9	4231.7	4143.6
67.5°	2347.1	2382.9	2685.8	3386.5	4244.1	4792.0	4904.9	4899.4	4732.8	4446.5	4341.9
70°	1895.6	1898.4	2148.9	2808.3	3792.6	4637.8	5103.1	5115.5	4914.5	4607.6	4350.1
72.5°	907.2	981.5	1393.1	1960.3	3082.3	4335.0	5232.5	5294.5	5028.8	4602.0	3880.7
75°	207.9	214.8	406.1	932.0	1807.5	3327.3	4909.0	5024.7	4750.7	3979.8	2734.0
77.5°	75.7	79.8	114.3	272.6	695.2	1719.4	3513.1	3682.5	3511.8	2572.9	1292.6
80°	50.9	49.6	59.2	121.1	319.4	487.3	1796.5	1897.0	1731.8	878.3	309.7
82.5°	26.2	27.5	41.3	67.5	214.8	169.3	600.2	652.5	536.9	176.2	57.8
85°	12.4	12.4	23.4	42.7	90.9	59.2	133.5	161.1	144.5	77.1	19.3
87.5°	12.4	12.4	22.0	27.5	46.8	24.8	33.0	41.3	38.5	41.3	6.9
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°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
2.5°	916.8	915.5	914.1	916.8	915.5	918.2	918.2	921.0	921.0	918.2	916.8
5°	904.4	901.7	898.9	898.9	897.6	900.3	908.6	915.5	916.8	912.7	911.3
7.5°	905.8	905.8	903.1	897.6	887.9	887.9	887.9	896.2	900.3	897.6	896.2
10°	930.6	932.0	925.1	912.7	896.2	881.0	852.1	809.5	769.5	758.5	754.4
12.5°	973.3	974.6	960.9	938.9	904.4	815.0	704.8	603.0	524.5	502.5	498.3
15°	1024.2	1025.6	1000.8	965.0	860.4	652.5	488.7	373.1	304.2	287.7	286.3
17.5°	1076.5	1073.8	1036.6	967.8	729.6	462.5	297.4	238.2	220.3	216.1	217.5
20°	1127.5	1119.2	1068.3	916.8	561.7	302.9	217.5	203.7	199.6	196.9	196.9
22.5°	1174.3	1157.7	1094.4	816.3	393.7	217.5	194.1	191.4	185.8	181.7	180.3
25°	1221.1	1197.7	1110.9	685.6	264.3	190.0	183.1	177.6	170.7	165.2	163.8
27.5°	1277.5	1244.5	1102.7	520.4	198.2	176.2	170.7	162.4	152.8	144.5	141.8
30°	1331.2	1294.0	1055.9	359.3	169.3	162.4	154.2	141.8	129.4	119.8	117.0
32.5°	1398.6	1356.0	971.9	235.4	147.3	141.8	133.5	118.4	101.9	90.9	88.1
35°	1495.0	1446.8	864.5	165.2	129.4	119.8	108.8	92.2	74.3	66.1	64.7
37.5°	1629.9	1565.2	729.6	133.5	114.3	100.5	84.0	67.5	55.1	48.2	46.8
40°	1795.1	1696.0	579.6	118.4	101.9	84.0	63.3	48.2	39.9	34.4	34.4
42.5°	1974.1	1818.5	426.8	108.8	89.5	68.8	46.8	34.4	28.9	26.2	24.8
45°	2158.5	1927.3	287.7	100.5	78.5	52.3	33.0	23.4	19.3	19.3	17.9
47.5°	2349.9	2000.2	185.8	90.9	66.1	38.5	22.0	16.5	13.8	13.8	13.8
50°	2539.9	2038.8	132.2	82.6	53.7	26.2	16.5	12.4	11.0	11.0	11.0
52.5°	2677.5	2014.0	106.0	71.6	41.3	19.3	12.4	9.6	8.3	8.3	8.3
55°	2797.3	1971.3	92.2	61.9	30.3	13.8	9.6	8.3	6.9	6.9	6.9
57.5°	2919.8	1916.3	82.6	52.3	22.0	9.6	6.9	5.5	5.5	5.5	5.5
60°	3031.3	1822.6	71.6	41.3	15.1	6.9	5.5	4.1	4.1	4.1	4.1
62.5°	3140.1	1742.8	61.9	31.7	11.0	5.5	2.8	2.8	1.4	1.4	1.4
65°	3202.0	1635.4	49.6	20.6	6.9	4.1	1.4	1.4	0.0	0.0	0.0
67.5°	3182.7	1507.4	34.4	12.4	4.1	2.8	1.4	0.0	0.0	0.0	0.0
70°	3049.2	1335.3	20.6	6.9	4.1	2.8	1.4	0.0	0.0	0.0	0.0
72.5°	2553.6	988.4	12.4	5.5	2.8	1.4	0.0	0.0	0.0	0.0	0.0
75°	1705.6	454.3	6.9	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	780.5	136.3	4.1	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	156.9	35.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.0	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	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)