

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: P398125

Luminaire Tested: **ARCH-S-PA1-90-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398125
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-PA1-90-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7620 lumens
Efficiency: N/A
Efficacy: 81.1 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

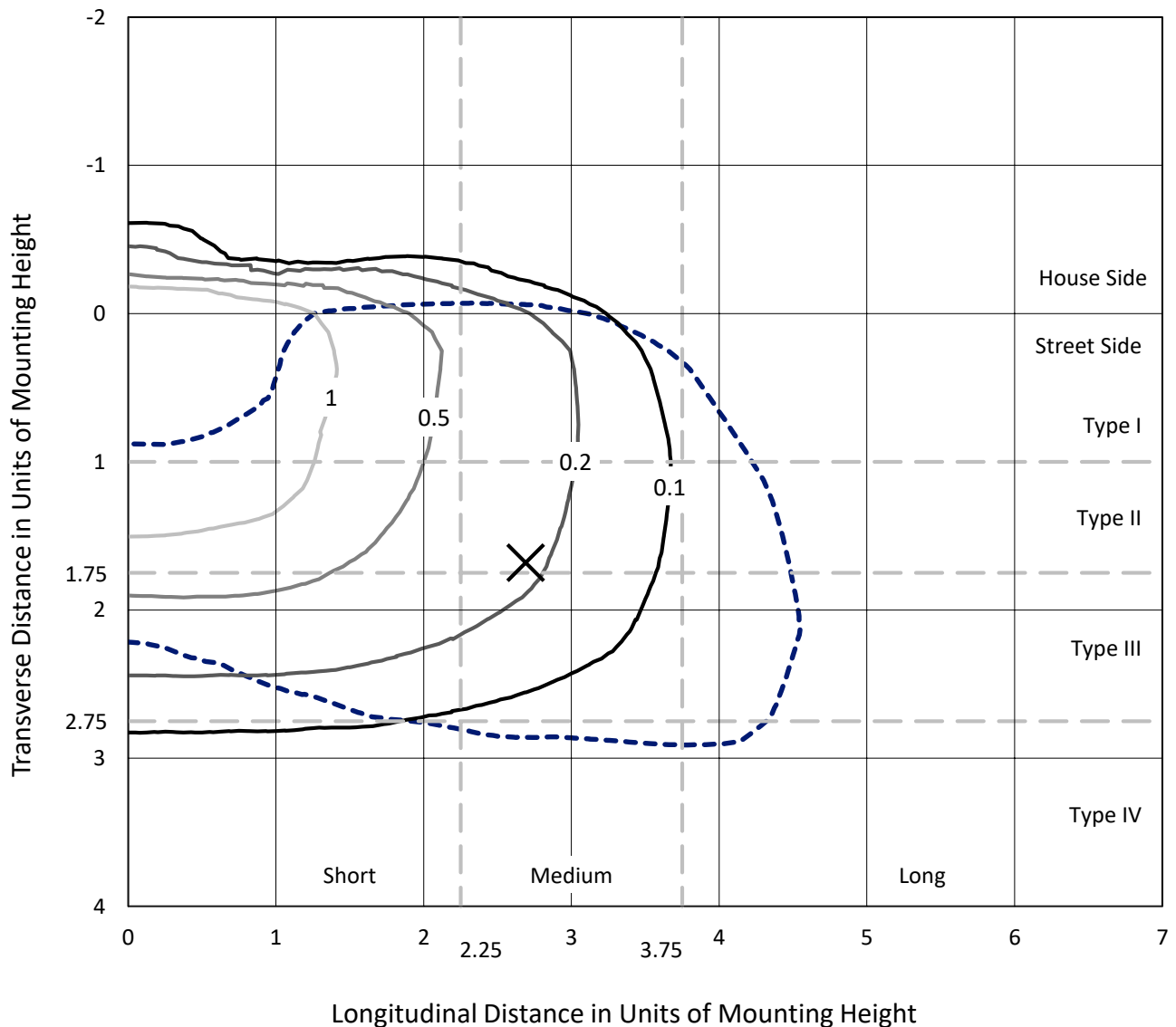
Input Watts (W): 94
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

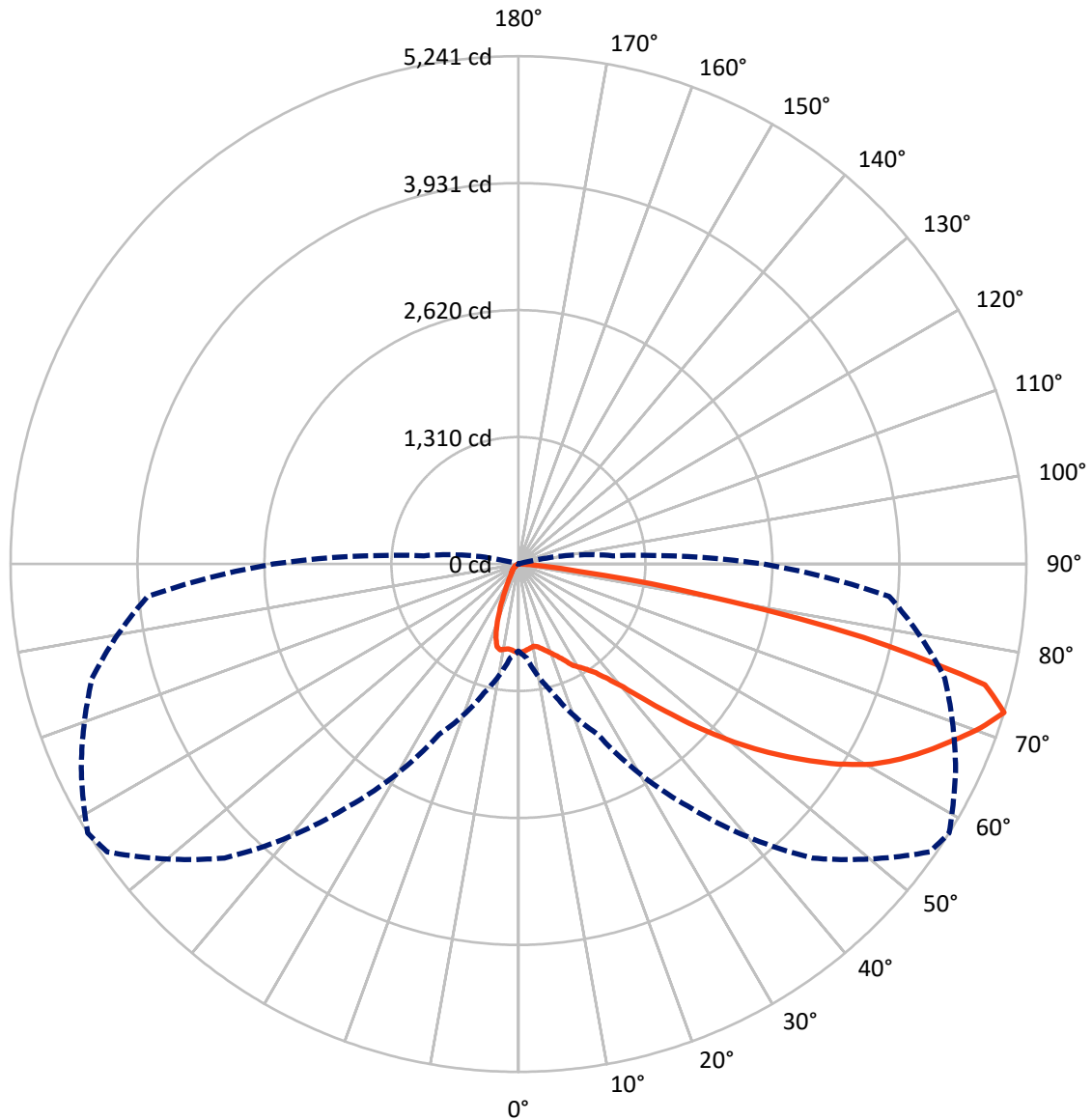


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - Non-Cutoff

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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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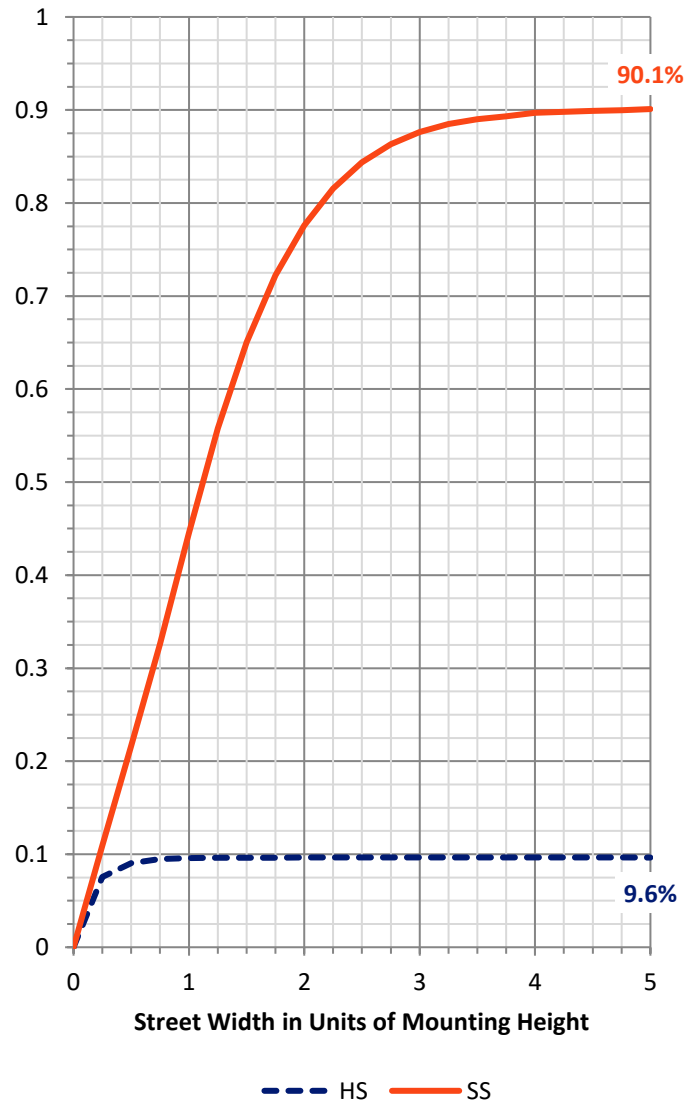
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.0	0.0	741.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6879.0	0.0	6879.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	7620.0	0.0	7620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.1
10°-20°	218.6	2.9
20°-30°	343.3	4.5
30°-40°	592.1	7.8
40°-50°	1126.6	14.8
50°-60°	1784.1	23.4
60°-70°	2081.9	27.3
70°-80°	1303.9	17.1
80°-90°	85.6	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°	7620.0	100.0
0°-180°	7620.0	100.0

Coefficient of Utilization



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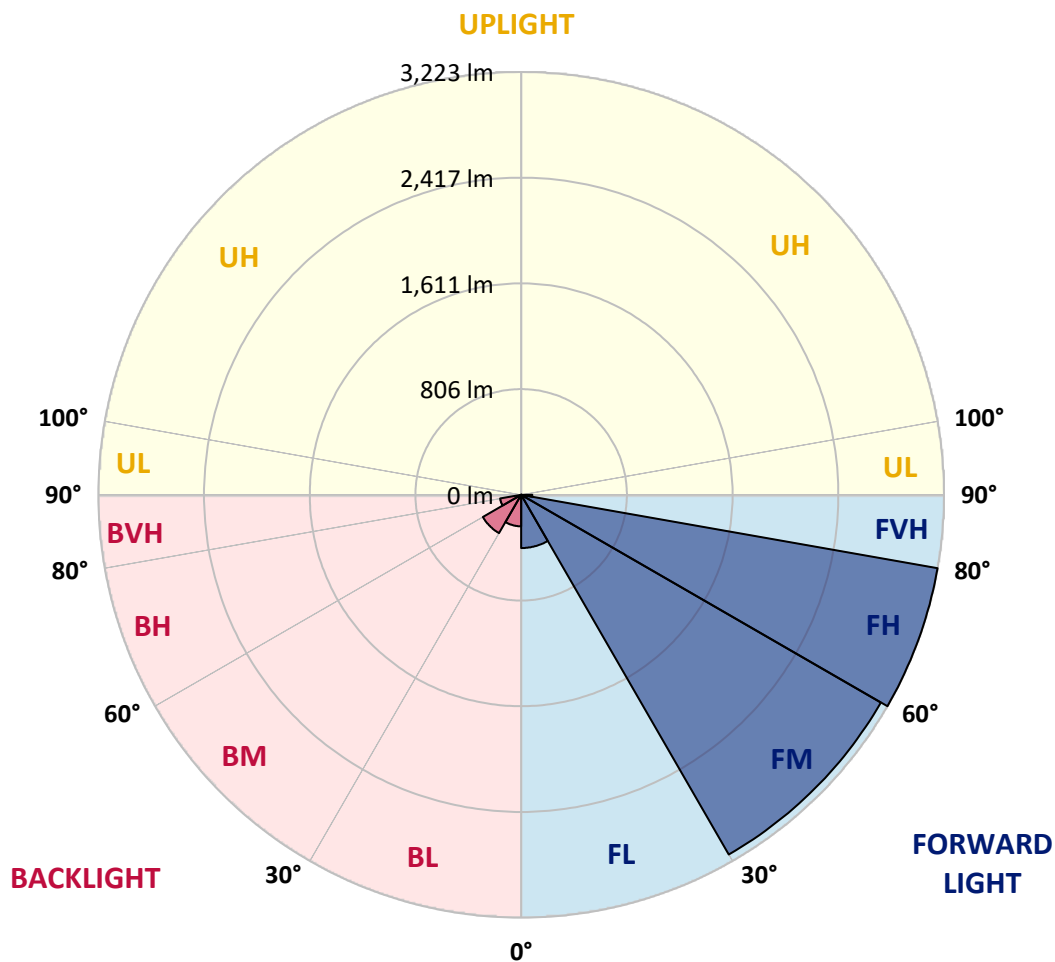
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.9	5.3			
FM	(30°-60°)	3165.7	41.5			
FH	(60°-80°)	3222.7	42.3			G2/5000
FVH	(80°-90°)	84.8	1.1			G1/100
BL	(0°-30°)	240.0	3.1	B1/500		
BM	(30°-60°)	337.2	4.4	B1/1000		
BH	(60°-80°)	163.1	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°	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4
2.5°	910.3	906.2	904.8	903.5	904.8	906.2	902.1	906.2	903.5	904.8	907.5
5°	877.6	873.5	872.1	873.5	877.6	884.4	887.1	891.2	891.2	895.3	896.6
7.5°	840.8	838.0	836.7	839.4	847.6	862.6	870.7	876.2	881.6	889.8	898.0
10°	820.3	819.0	817.6	821.7	829.9	843.5	854.4	862.6	883.0	906.2	921.2
12.5°	806.7	806.7	809.4	817.6	828.5	839.4	865.3	876.2	907.5	943.0	963.4
15°	795.8	795.8	799.9	814.9	829.9	855.8	893.9	906.2	943.0	986.6	1013.8
17.5°	787.6	790.4	793.1	808.1	836.7	880.3	925.3	943.0	987.9	1035.6	1065.6
20°	789.0	791.7	793.1	808.1	848.9	908.9	966.1	986.6	1038.4	1088.8	1118.8
22.5°	797.2	801.3	802.6	823.1	870.7	938.9	1012.5	1035.6	1091.5	1144.6	1167.8
25°	831.2	834.0	825.8	843.5	902.1	985.2	1072.4	1097.0	1152.8	1201.9	1221.0
27.5°	947.1	949.8	904.8	884.4	926.6	1023.4	1146.0	1180.1	1249.6	1282.3	1285.0
30°	1197.8	1200.5	1111.9	1015.2	985.2	1056.1	1186.9	1234.6	1324.5	1361.3	1345.0
32.5°	1520.7	1518.0	1396.7	1253.7	1124.2	1113.3	1245.5	1295.9	1394.0	1429.4	1417.2
35°	1845.1	1849.1	1745.6	1530.3	1345.0	1221.0	1320.4	1379.0	1497.6	1548.0	1526.2
37.5°	2067.2	2094.4	2049.5	1816.4	1616.1	1419.9	1441.7	1504.4	1652.9	1721.1	1674.7
40°	2380.6	2373.8	2264.8	2093.1	1915.9	1714.2	1637.9	1667.9	1838.2	1929.5	1857.3
42.5°	2801.7	2788.0	2602.7	2435.1	2237.5	2072.6	1917.3	1911.8	2050.8	2157.1	2052.2
45°	3183.2	3162.8	3036.0	2873.9	2657.2	2467.8	2257.9	2210.3	2307.0	2396.9	2274.3
47.5°	3487.1	3453.0	3363.1	3277.2	3224.1	2929.7	2615.0	2542.7	2591.8	2658.6	2485.5
50°	3846.8	3752.8	3622.0	3570.2	3680.6	3453.0	2958.4	2888.9	2886.1	2924.3	2703.5
52.5°	4010.3	3840.0	3766.4	3810.0	4004.9	3939.5	3329.0	3229.5	3190.0	3194.1	2906.6
55°	3812.8	3793.7	3833.2	3969.5	4224.3	4186.1	3684.7	3562.0	3503.4	3429.8	3101.4
57.5°	3587.9	3646.5	3803.2	4063.5	4502.3	4443.7	4034.9	3895.9	3788.2	3619.3	3318.1
60°	3380.8	3440.7	3699.7	4085.3	4654.9	4691.7	4326.5	4194.3	4034.9	3812.8	3556.6
62.5°	3066.0	3112.3	3476.2	4054.0	4588.1	4836.1	4529.5	4430.0	4281.5	3996.7	3830.5
65°	2711.7	2741.7	3101.4	3803.2	4457.3	4819.8	4697.1	4641.3	4496.8	4188.9	4101.6
67.5°	2323.4	2358.8	2658.6	3352.2	4201.1	4743.5	4855.2	4849.8	4684.9	4401.4	4297.9
70°	1876.4	1879.1	2127.1	2779.9	3754.2	4590.8	5051.4	5063.7	4864.7	4560.9	4306.0
72.5°	898.0	971.6	1379.0	1940.4	3051.0	4291.1	5179.5	5240.8	4977.8	4555.4	3841.4
75°	205.8	212.6	402.0	922.5	1789.2	3293.6	4859.3	4973.8	4702.6	3939.5	2706.3
77.5°	74.9	79.0	113.1	269.8	688.1	1702.0	3477.5	3645.2	3476.2	2546.8	1279.5
80°	50.4	49.1	58.6	119.9	316.1	482.4	1778.3	1877.8	1714.2	869.4	306.6
82.5°	25.9	27.3	40.9	66.8	212.6	167.6	594.1	645.9	531.4	174.4	57.2
85°	12.3	12.3	23.2	42.2	89.9	58.6	132.2	159.4	143.1	76.3	19.1
87.5°	12.3	12.3	21.8	27.3	46.3	24.5	32.7	40.9	38.2	40.9	6.8
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°	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4
2.5°	907.5	906.2	904.8	907.5	906.2	908.9	908.9	911.6	911.6	908.9	907.5
5°	895.3	892.6	889.8	889.8	888.5	891.2	899.4	906.2	907.5	903.5	902.1
7.5°	896.6	896.6	893.9	888.5	878.9	878.9	878.9	887.1	891.2	888.5	887.1
10°	921.2	922.5	915.7	903.5	887.1	872.1	843.5	801.3	761.7	750.8	746.7
12.5°	963.4	964.8	951.1	929.3	895.3	806.7	697.7	596.9	519.2	497.4	493.3
15°	1013.8	1015.2	990.7	955.2	851.7	645.9	483.7	369.3	301.2	284.8	283.4
17.5°	1065.6	1062.9	1026.1	958.0	722.2	457.9	294.3	235.7	218.0	213.9	215.3
20°	1116.0	1107.9	1057.4	907.5	556.0	299.8	215.3	201.7	197.6	194.9	194.9
22.5°	1162.4	1146.0	1083.3	808.1	389.7	215.3	192.1	189.4	184.0	179.9	178.5
25°	1208.7	1185.5	1099.7	678.6	261.6	188.0	181.2	175.8	169.0	163.5	162.2
27.5°	1264.6	1231.9	1091.5	515.1	196.2	174.4	169.0	160.8	151.3	143.1	140.4
30°	1317.7	1280.9	1045.2	355.7	167.6	160.8	152.6	140.4	128.1	118.6	115.8
32.5°	1384.5	1342.2	962.0	233.0	145.8	140.4	132.2	117.2	100.8	89.9	87.2
35°	1479.9	1432.2	855.8	163.5	128.1	118.6	107.7	91.3	73.6	65.4	64.0
37.5°	1613.4	1549.4	722.2	132.2	113.1	99.5	83.1	66.8	54.5	47.7	46.3
40°	1776.9	1678.8	573.7	117.2	100.8	83.1	62.7	47.7	39.5	34.1	34.1
42.5°	1954.1	1800.1	422.4	107.7	88.6	68.1	46.3	34.1	28.6	25.9	24.5
45°	2136.7	1907.7	284.8	99.5	77.7	51.8	32.7	23.2	19.1	19.1	17.7
47.5°	2326.1	1980.0	184.0	89.9	65.4	38.2	21.8	16.4	13.6	13.6	13.6
50°	2514.1	2018.1	130.8	81.8	53.1	25.9	16.4	12.3	10.9	10.9	10.9
52.5°	2650.4	1993.6	104.9	70.9	40.9	19.1	12.3	9.5	8.2	8.2	8.2
55°	2769.0	1951.3	91.3	61.3	30.0	13.6	9.5	8.2	6.8	6.8	6.8
57.5°	2890.2	1896.8	81.8	51.8	21.8	9.5	6.8	5.5	5.5	5.5	5.5
60°	3000.6	1804.2	70.9	40.9	15.0	6.8	5.5	4.1	4.1	4.1	4.1
62.5°	3108.3	1725.1	61.3	31.3	10.9	5.5	2.7	2.7	1.4	1.4	1.4
65°	3169.6	1618.9	49.1	20.4	6.8	4.1	1.4	1.4	0.0	0.0	0.0
67.5°	3150.5	1492.1	34.1	12.3	4.1	2.7	1.4	0.0	0.0	0.0	0.0
70°	3018.3	1321.8	20.4	6.8	4.1	2.7	1.4	0.0	0.0	0.0	0.0
72.5°	2527.8	978.4	12.3	5.5	2.7	1.4	0.0	0.0	0.0	0.0	0.0
75°	1688.4	449.7	6.8	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	772.6	134.9	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	155.3	35.4	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.7	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	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)