

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: P397999

Luminaire Tested: **ARCH-S-PA1-70-750-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397999
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-PA1-70-750-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 930mA 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: 7223 lumens
Efficiency: N/A
Efficacy: 97.6 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): 74
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

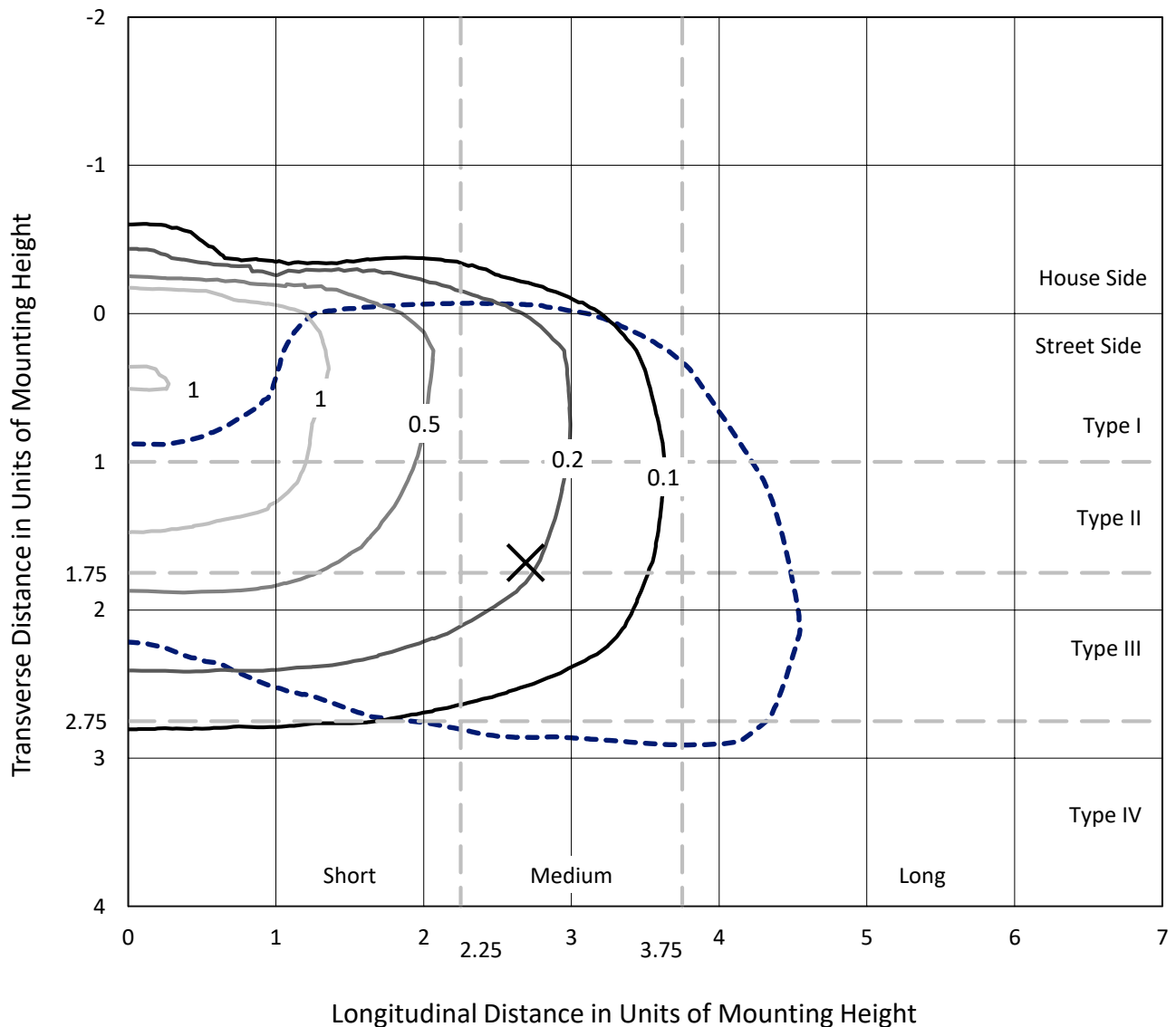


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

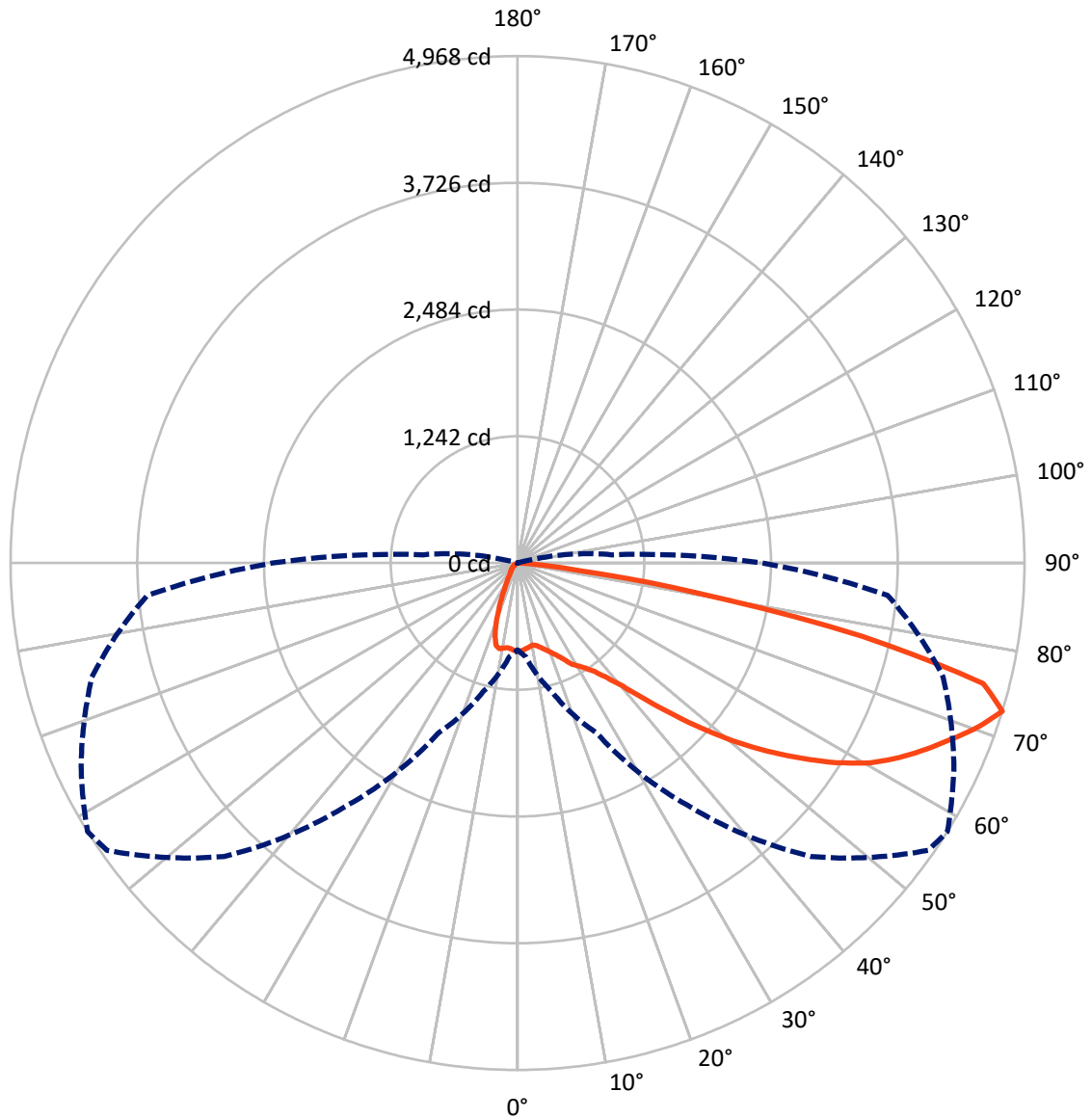


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - Non-Cutoff

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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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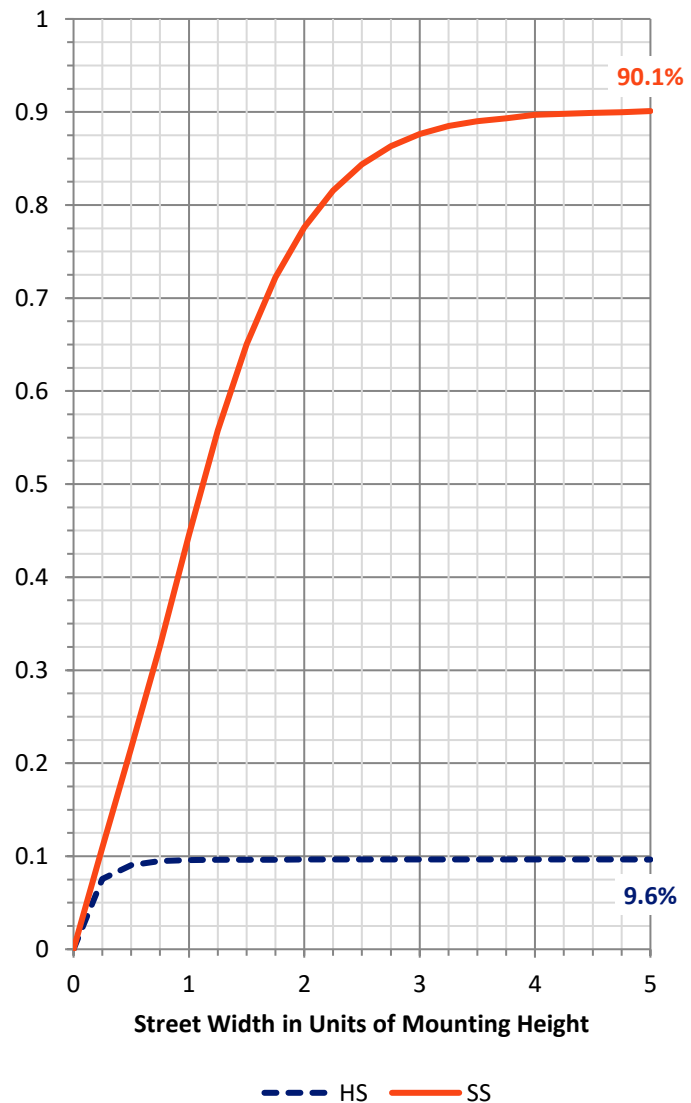
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.4	0.0	702.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6520.6	0.0	6520.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	7223.0	0.0	7223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.1
10°-20°	207.2	2.9
20°-30°	325.5	4.5
30°-40°	561.3	7.8
40°-50°	1067.9	14.8
50°-60°	1691.2	23.4
60°-70°	1973.4	27.3
70°-80°	1236.0	17.1
80°-90°	81.1	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°	7223.0	100.0
0°-180°	7223.0	100.0

Coefficient of Utilization



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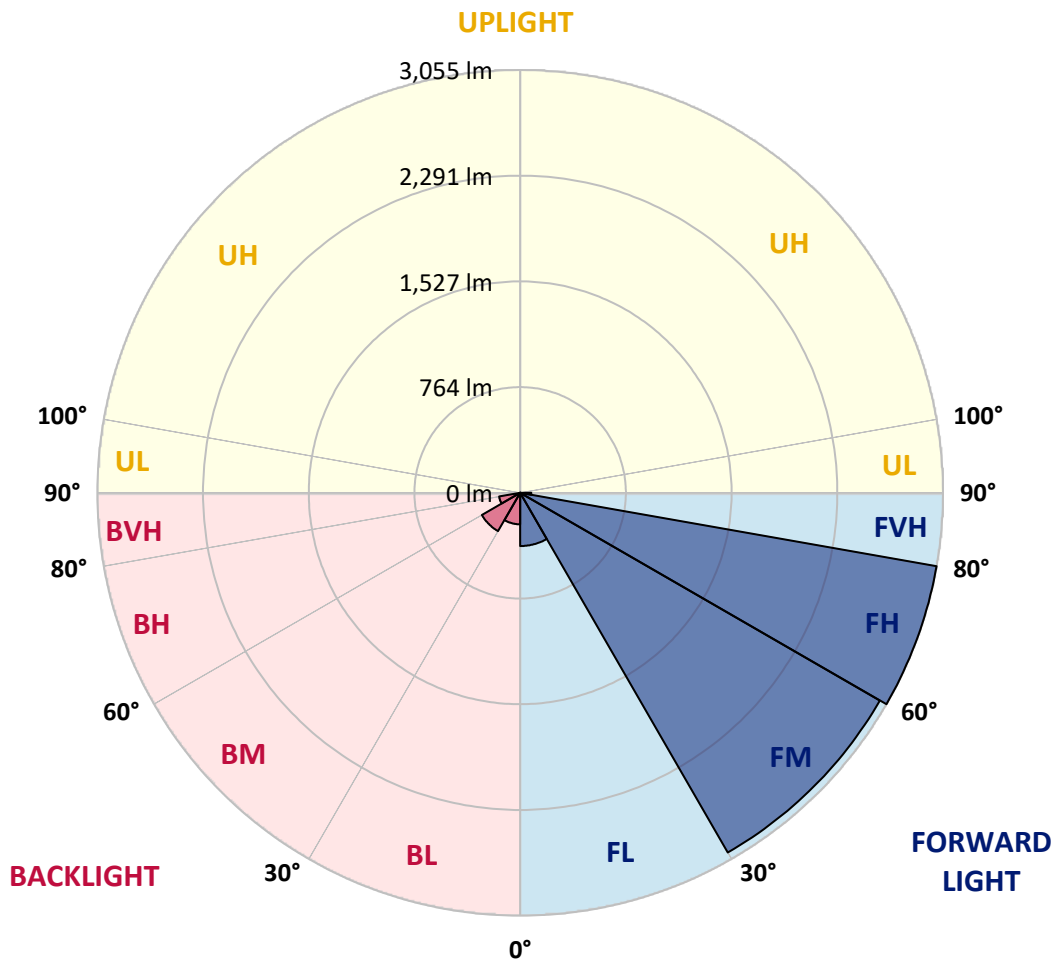
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.7	5.3			
FM	(30°-60°)	3000.7	41.5			
FH	(60°-80°)	3054.8	42.3			G2/5000
FVH	(80°-90°)	80.3	1.1			G1/100
BL	(0°-30°)	227.5	3.1	B1/500		
BM	(30°-60°)	319.6	4.4	B1/1000		
BH	(60°-80°)	154.6	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°	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7
2.5°	862.8	859.0	857.7	856.4	857.7	859.0	855.1	859.0	856.4	857.7	860.3
5°	831.8	828.0	826.7	828.0	831.8	838.3	840.9	844.8	844.8	848.6	849.9
7.5°	797.0	794.4	793.1	795.7	803.4	817.6	825.4	830.5	835.7	843.5	851.2
10°	777.6	776.3	775.0	778.9	786.6	799.5	809.9	817.6	837.0	859.0	873.2
12.5°	764.7	764.7	767.3	775.0	785.3	795.7	820.2	830.5	860.3	893.8	913.2
15°	754.3	754.3	758.2	772.4	786.6	811.2	847.3	859.0	893.8	935.2	961.0
17.5°	746.6	749.2	751.8	766.0	793.1	834.4	877.0	893.8	936.5	981.7	1010.1
20°	747.9	750.5	751.8	766.0	804.7	861.5	915.8	935.2	984.3	1032.1	1060.5
22.5°	755.6	759.5	760.8	780.2	825.4	890.0	959.7	981.7	1034.6	1085.0	1107.0
25°	787.9	790.5	782.8	799.5	855.1	933.9	1016.6	1039.8	1092.8	1139.3	1157.3
27.5°	897.7	900.3	857.7	838.3	878.3	970.1	1086.3	1118.6	1184.5	1215.5	1218.1
30°	1135.4	1138.0	1054.0	962.3	933.9	1001.1	1125.1	1170.3	1255.5	1290.4	1274.9
32.5°	1441.5	1438.9	1324.0	1188.3	1065.6	1055.3	1180.6	1228.4	1321.4	1355.0	1343.3
35°	1748.9	1752.8	1654.6	1450.6	1274.9	1157.3	1251.6	1307.2	1419.6	1467.3	1446.7
37.5°	1959.5	1985.3	1942.7	1721.8	1531.9	1345.9	1366.6	1426.0	1566.8	1631.4	1587.5
40°	2256.6	2250.1	2146.8	1984.0	1816.1	1624.9	1552.6	1581.0	1742.5	1829.0	1760.6
42.5°	2655.7	2642.8	2467.1	2308.2	2120.9	1964.6	1817.4	1812.2	1944.0	2044.7	1945.3
45°	3017.4	2998.0	2877.9	2724.1	2518.8	2339.2	2140.3	2095.1	2186.8	2272.1	2155.8
47.5°	3305.4	3273.1	3187.9	3106.5	3056.1	2777.1	2478.7	2410.3	2456.8	2520.1	2356.0
50°	3646.4	3557.3	3433.3	3384.2	3488.8	3273.1	2804.2	2738.4	2735.8	2771.9	2562.7
52.5°	3801.4	3639.9	3570.2	3611.5	3796.2	3734.2	3155.6	3061.3	3023.8	3027.7	2755.1
55°	3614.1	3596.0	3633.5	3762.7	4004.2	3968.0	3492.7	3376.4	3320.9	3251.2	2939.9
57.5°	3401.0	3456.5	3605.1	3851.8	4267.7	4212.2	3824.7	3692.9	3590.9	3430.7	3145.2
60°	3204.7	3261.5	3506.9	3872.5	4412.4	4447.2	4101.1	3975.8	3824.7	3614.1	3371.3
62.5°	2906.3	2950.2	3295.1	3842.7	4349.1	4584.2	4293.5	4199.2	4058.5	3788.5	3630.9
65°	2570.4	2598.9	2939.9	3605.1	4225.1	4568.7	4452.4	4399.5	4262.5	3970.6	3888.0
67.5°	2202.3	2235.9	2520.1	3177.5	3982.2	4496.3	4602.2	4597.1	4440.8	4172.1	4074.0
70°	1778.6	1781.2	2016.3	2635.0	3558.6	4351.7	4788.3	4799.9	4611.3	4323.2	4081.7
72.5°	851.2	921.0	1307.2	1839.3	2892.1	4067.5	4909.7	4967.8	4718.5	4318.1	3641.2
75°	195.0	201.5	381.0	874.5	1696.0	3122.0	4606.1	4714.6	4457.6	3734.2	2565.3
77.5°	71.0	74.9	107.2	255.8	652.3	1613.3	3296.4	3455.2	3295.1	2414.1	1212.9
80°	47.8	46.5	55.5	113.7	299.7	457.3	1685.6	1779.9	1624.9	824.1	290.6
82.5°	24.5	25.8	38.8	63.3	201.5	158.9	563.2	612.3	503.8	165.3	54.3
85°	11.6	11.6	22.0	40.0	85.3	55.5	125.3	151.1	135.6	72.3	18.1
87.5°	11.6	11.6	20.7	25.8	43.9	23.3	31.0	38.8	36.2	38.8	6.5
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°	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7
2.5°	860.3	859.0	857.7	860.3	859.0	861.5	861.5	864.1	864.1	861.5	860.3
5°	848.6	846.0	843.5	843.5	842.2	844.8	852.5	859.0	860.3	856.4	855.1
7.5°	849.9	849.9	847.3	842.2	833.1	833.1	833.1	840.9	844.8	842.2	840.9
10°	873.2	874.5	868.0	856.4	840.9	826.7	799.5	759.5	722.0	711.7	707.8
12.5°	913.2	914.5	901.6	880.9	848.6	764.7	661.3	565.8	492.1	471.5	467.6
15°	961.0	962.3	939.0	905.5	807.3	612.3	458.5	350.0	285.5	270.0	268.7
17.5°	1010.1	1007.5	972.6	908.0	684.6	434.0	279.0	223.5	206.7	202.8	204.1
20°	1057.9	1050.1	1002.3	860.3	527.0	284.2	204.1	191.2	187.3	184.7	184.7
22.5°	1101.8	1086.3	1026.9	766.0	369.4	204.1	182.1	179.5	174.4	170.5	169.2
25°	1145.7	1123.8	1042.4	643.3	248.0	178.3	171.8	166.6	160.2	155.0	153.7
27.5°	1198.7	1167.7	1034.6	488.3	186.0	165.3	160.2	152.4	143.4	135.6	133.0
30°	1249.1	1214.2	990.7	337.1	158.9	152.4	144.7	133.0	121.4	112.4	109.8
32.5°	1312.3	1272.3	911.9	220.9	138.2	133.0	125.3	111.1	95.6	85.3	82.7
35°	1402.8	1357.6	811.2	155.0	121.4	112.4	102.0	86.5	69.8	62.0	60.7
37.5°	1529.3	1468.6	684.6	125.3	107.2	94.3	78.8	63.3	51.7	45.2	43.9
40°	1684.3	1591.3	543.8	111.1	95.6	78.8	59.4	45.2	37.5	32.3	32.3
42.5°	1852.3	1706.3	400.4	102.0	84.0	64.6	43.9	32.3	27.1	24.5	23.3
45°	2025.4	1808.3	270.0	94.3	73.6	49.1	31.0	22.0	18.1	18.1	16.8
47.5°	2204.9	1876.8	174.4	85.3	62.0	36.2	20.7	15.5	12.9	12.9	12.9
50°	2383.1	1913.0	124.0	77.5	50.4	24.5	15.5	11.6	10.3	10.3	10.3
52.5°	2512.3	1889.7	99.5	67.2	38.8	18.1	11.6	9.0	7.8	7.8	7.8
55°	2624.7	1849.7	86.5	58.1	28.4	12.9	9.0	7.8	6.5	6.5	6.5
57.5°	2739.6	1798.0	77.5	49.1	20.7	9.0	6.5	5.2	5.2	5.2	5.2
60°	2844.3	1710.2	67.2	38.8	14.2	6.5	5.2	3.9	3.9	3.9	3.9
62.5°	2946.3	1635.3	58.1	29.7	10.3	5.2	2.6	2.6	1.3	1.3	1.3
65°	3004.4	1534.5	46.5	19.4	6.5	3.9	1.3	1.3	0.0	0.0	0.0
67.5°	2986.4	1414.4	32.3	11.6	3.9	2.6	1.3	0.0	0.0	0.0	0.0
70°	2861.1	1252.9	19.4	6.5	3.9	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	2396.1	927.4	11.6	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0
75°	1600.4	426.3	6.5	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	732.4	127.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	147.3	33.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.0	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	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)