

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: P265600

Luminaire Tested: **ARCH-L-AF72-120-D-U-T2R-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-T2R-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11501 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 123
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

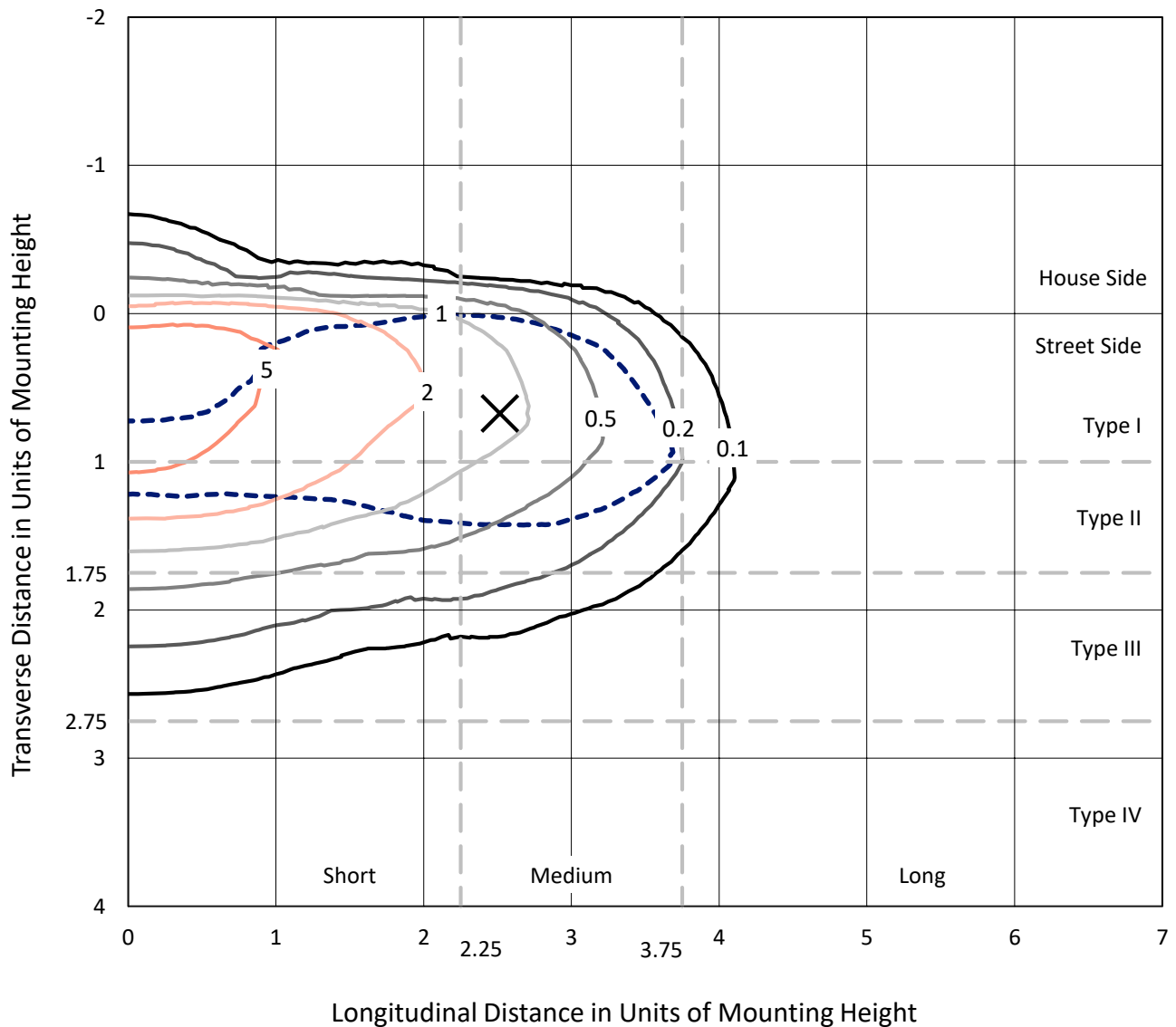


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

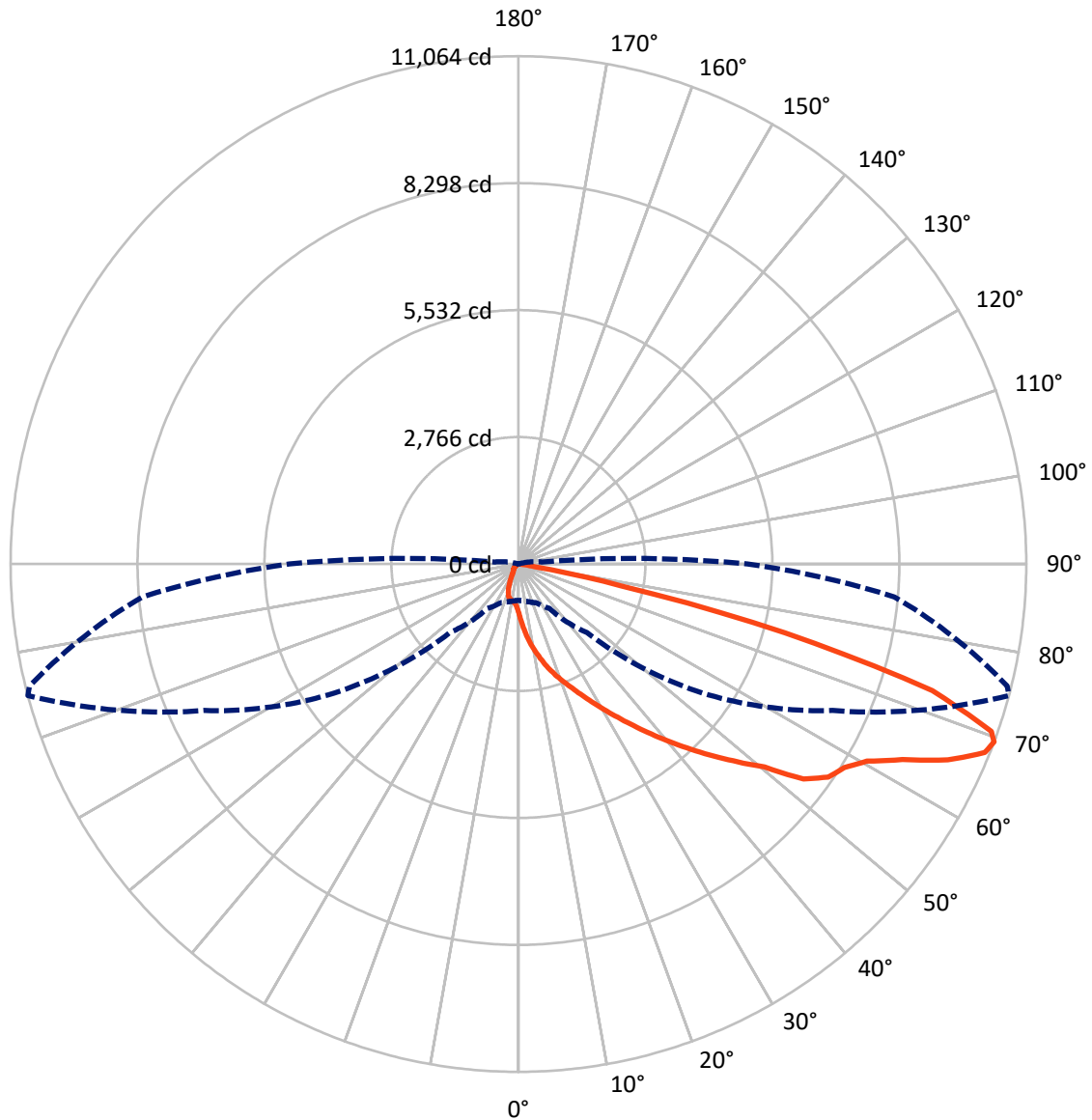


Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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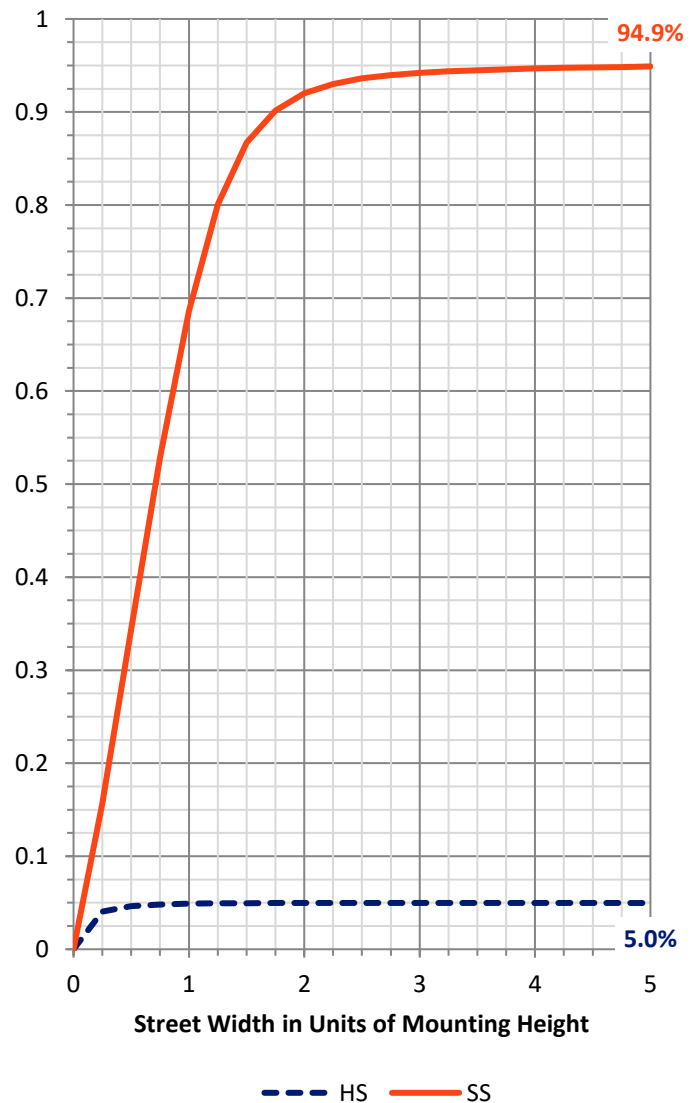
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.8	0.0	573.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10927.2	0.0	10927.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	11501.0	0.0	11501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	1.1
10°-20°	446.1	3.9
20°-30°	851.7	7.4
30°-40°	1527.8	13.3
40°-50°	2340.6	20.4
50°-60°	2720.4	23.7
60°-70°	2408.9	20.9
70°-80°	1039.1	9.0
80°-90°	41.6	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°	11501.0	100.0
0°-180°	11501.0	100.0

Coefficient of Utilization



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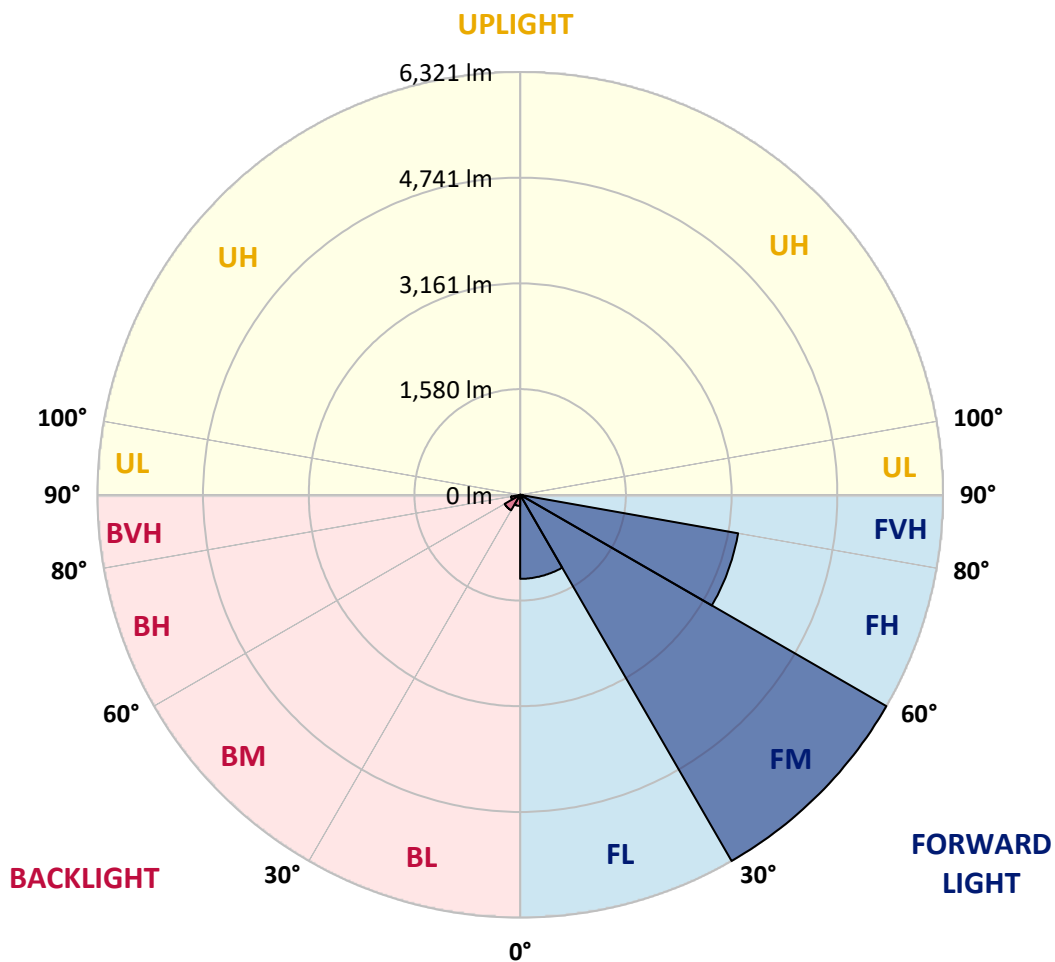
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.9	10.9			
FM	(30°-60°)	6321.2	55.0			
FH	(60°-80°)	3309.0	28.8			G2/5000
FVH	(80°-90°)	41.0	0.4			G1/100
BL	(0°-30°)	166.7	1.4	B1/500		
BM	(30°-60°)	267.5	2.3	B1/1000		
BH	(60°-80°)	139.0	1.2	B1/500		G1/500
BVH	(80°-90°)	0.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1763.0	1745.5	1728.2	1708.2	1663.7	1586.6	1489.7	1385.5	1256.4	1234.0	1129.8
5°	2140.3	2132.8	2115.5	2088.2	2038.6	1954.2	1844.8	1690.9	1474.8	1437.6	1216.7
7.5°	2406.0	2401.0	2386.2	2353.9	2309.2	2224.7	2110.6	1944.2	1693.3	1651.2	1325.9
10°	2644.4	2641.8	2629.5	2599.7	2555.0	2463.2	2341.4	2167.6	1901.9	1854.8	1452.5
12.5°	2860.5	2862.9	2857.9	2843.0	2810.7	2723.8	2584.9	2396.0	2103.1	2050.9	1604.1
15°	2987.0	2994.5	3014.4	3044.1	3054.1	2984.6	2840.5	2631.9	2309.2	2264.4	1777.8
17.5°	2944.9	2952.3	3014.4	3116.1	3213.0	3222.8	3093.9	2855.4	2512.7	2468.1	1949.1
20°	2843.0	2852.9	2917.4	3056.6	3245.2	3376.9	3324.6	3098.8	2706.5	2651.8	2113.1
22.5°	2957.2	2957.2	2977.2	3061.6	3232.8	3438.9	3508.4	3342.1	2905.1	2838.0	2276.9
25°	3349.5	3342.1	3299.8	3265.1	3319.7	3503.5	3647.5	3590.3	3138.5	3061.6	2450.7
27.5°	3846.2	3880.9	3801.4	3674.7	3550.7	3630.1	3771.7	3836.2	3396.8	3317.3	2629.5
30°	4402.4	4417.2	4322.9	4154.0	3935.6	3858.6	3918.1	4047.3	3677.3	3590.3	2815.6
32.5°	4903.8	4891.5	4812.0	4635.8	4365.0	4198.7	4106.8	4216.0	3982.6	3883.4	3006.8
35°	5348.2	5358.3	5261.5	5057.8	4792.2	4615.9	4397.4	4407.3	4325.3	4211.2	3227.9
37.5°	5748.2	5730.6	5638.8	5435.3	5194.4	5003.2	4772.2	4605.9	4700.3	4581.0	3476.3
40°	6073.4	6056.0	5959.1	5760.6	5534.5	5378.2	5196.9	4871.6	5095.0	4958.6	3741.8
42.5°	6331.7	6311.8	6229.7	6038.5	5820.1	5681.1	5594.1	5199.4	5517.2	5380.6	4039.8
45°	6458.3	6440.8	6391.3	6247.2	6056.0	5934.4	5976.6	5576.8	5969.1	5854.9	4367.6
47.5°	6309.2	6301.8	6358.9	6334.0	6224.9	6160.2	6306.8	5988.9	6443.4	6331.7	4744.9
50°	5857.4	5869.7	6036.2	6242.2	6294.3	6371.3	6577.4	6423.5	6952.3	6833.1	5179.4
52.5°	4742.5	4827.0	5328.4	5825.1	6210.0	6500.5	6895.2	7044.1	7781.7	7665.0	5857.4
55°	3540.7	3575.6	4121.8	4971.0	5869.7	6490.6	7131.1	7409.2	8191.4	8072.2	6036.2
57.5°	2808.2	2820.7	3091.2	3957.8	5169.6	6267.0	7255.3	7540.8	8370.0	8270.9	6301.8
60°	2204.9	2219.8	2415.9	3011.8	4183.9	5663.6	7076.5	7655.0	8720.2	8640.7	6766.2
62.5°	1715.8	1730.7	1849.8	2199.9	3138.5	4735.1	6716.4	7838.8	9385.6	9348.4	7525.9
65°	1328.5	1333.4	1415.3	1579.2	2217.2	3729.5	6276.9	8010.0	10284.4	10252.3	8141.7
67.5°	980.8	988.2	1045.4	1147.1	1497.2	2679.1	5556.9	7878.5	10962.3	10868.1	8365.1
69°	792.0	799.5	849.2	931.2	1181.9	2110.6	4898.8	7553.2	11064.2	10974.8	8223.7
70°	677.9	682.8	732.5	801.9	1008.1	1792.7	4377.5	7272.7	10930.0	10843.3	7900.9
72.5°	434.5	459.4	509.0	553.7	667.9	1186.9	2954.7	6031.2	9430.3	9281.4	6187.5
75°	240.8	248.3	337.8	392.3	444.4	772.3	1643.7	3761.7	5998.9	5894.6	3309.9
77.5°	198.6	203.6	238.4	298.0	298.0	432.1	620.8	1482.4	2281.9	2058.3	896.4
80°	139.1	144.0	181.3	196.2	213.5	243.4	201.1	325.2	352.6	312.9	134.0
82.5°	96.8	101.8	124.1	161.3	171.3	114.3	74.5	96.8	101.8	101.8	52.1
85°	17.3	24.9	91.8	134.0	101.8	34.8	42.2	34.8	32.2	34.8	12.3
87.5°	0.0	0.0	57.1	64.6	54.6	14.9	17.3	12.3	7.5	9.9	5.0
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°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1077.5	1025.4	936.0	871.5	816.9	774.7	757.4	730.1	710.1	720.0	707.7
5°	1107.4	1015.5	871.5	779.6	715.1	660.4	615.8	581.1	553.7	548.8	543.7
7.5°	1154.6	1023.0	834.3	720.0	623.2	538.9	469.3	417.2	377.4	377.4	362.6
10°	1219.1	1042.8	812.0	660.4	516.4	402.3	332.7	283.1	263.3	260.7	255.7
12.5°	1308.6	1080.1	794.6	583.4	402.3	292.9	250.7	233.4	226.0	223.5	221.1
15°	1430.2	1134.6	774.7	489.1	305.5	240.8	223.5	208.5	201.1	198.6	196.2
17.5°	1546.9	1184.3	732.5	392.3	248.3	218.5	198.6	186.2	176.2	173.8	173.8
20°	1656.1	1226.5	660.4	305.5	223.5	196.2	176.2	161.3	151.5	148.9	148.9
22.5°	1770.4	1261.4	571.1	248.3	203.6	173.8	153.9	139.1	129.1	126.7	124.1
25°	1892.0	1286.3	469.3	221.1	183.8	153.9	131.6	119.1	111.7	109.2	106.8
27.5°	2023.6	1296.2	372.4	201.1	161.3	134.0	114.3	101.8	96.8	94.3	94.3
30°	2142.7	1286.3	288.0	178.8	141.6	116.7	99.4	89.4	84.4	81.9	81.9
32.5°	2267.0	1261.4	231.0	158.9	124.1	99.4	84.4	77.0	74.5	72.0	72.0
35°	2398.6	1229.2	198.6	141.6	106.8	86.9	74.5	69.4	67.1	64.6	64.6
37.5°	2552.5	1189.4	181.3	126.7	94.3	77.0	64.6	62.1	59.6	59.6	59.6
40°	2726.4	1139.7	168.8	114.3	84.4	67.1	57.1	54.6	52.1	52.1	52.1
42.5°	2910.1	1082.5	156.5	101.8	74.5	57.1	49.6	49.6	47.3	47.3	44.6
45°	3116.1	1025.4	144.0	89.4	64.6	49.6	42.2	39.7	39.7	37.2	37.2
47.5°	3359.5	973.4	131.6	79.5	57.1	42.2	37.2	34.8	32.2	29.9	29.9
50°	3702.2	968.4	116.7	69.4	52.1	34.8	29.9	27.3	24.9	22.4	22.4
52.5°	4042.4	923.6	99.4	57.1	42.2	29.9	22.4	19.9	17.3	17.3	14.9
55°	4119.3	849.2	86.9	49.6	32.2	22.4	17.3	12.3	12.3	9.9	9.9
57.5°	4288.1	814.5	74.5	39.7	24.9	17.3	9.9	7.5	7.5	7.5	7.5
60°	4620.8	804.5	64.6	34.8	17.3	12.3	7.5	5.0	5.0	2.4	2.4
62.5°	5080.2	794.6	54.6	29.9	12.3	7.5	5.0	2.4	0.0	0.0	0.0
65°	5333.4	727.4	44.6	22.4	9.9	7.5	2.4	0.0	0.0	0.0	0.0
67.5°	5266.5	600.8	39.7	14.9	7.5	5.0	2.4	0.0	0.0	0.0	0.0
69°	4985.9	506.6	32.2	12.3	7.5	5.0	2.4	0.0	0.0	0.0	0.0
70°	4648.1	436.9	29.9	9.9	5.0	2.4	2.4	0.0	0.0	0.0	0.0
72.5°	3299.8	228.3	19.9	7.5	5.0	2.4	0.0	0.0	0.0	0.0	0.0
75°	1541.9	101.8	12.3	5.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	340.2	47.3	7.5	5.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.6	17.3	5.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	7.5	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.0	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)