

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: P572698

Luminaire Tested: **ARCH-S-PA2-100-827-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7865 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

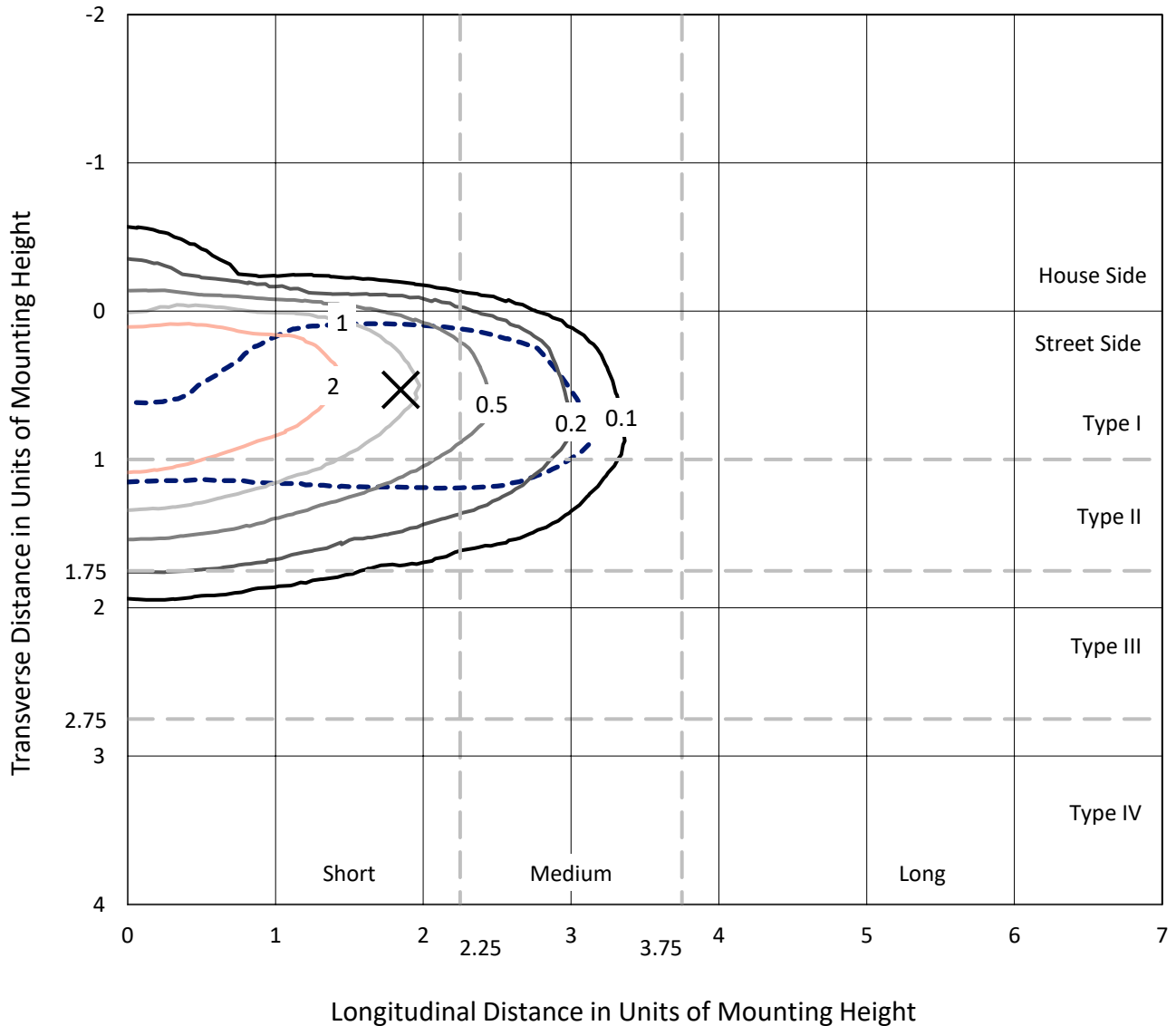
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

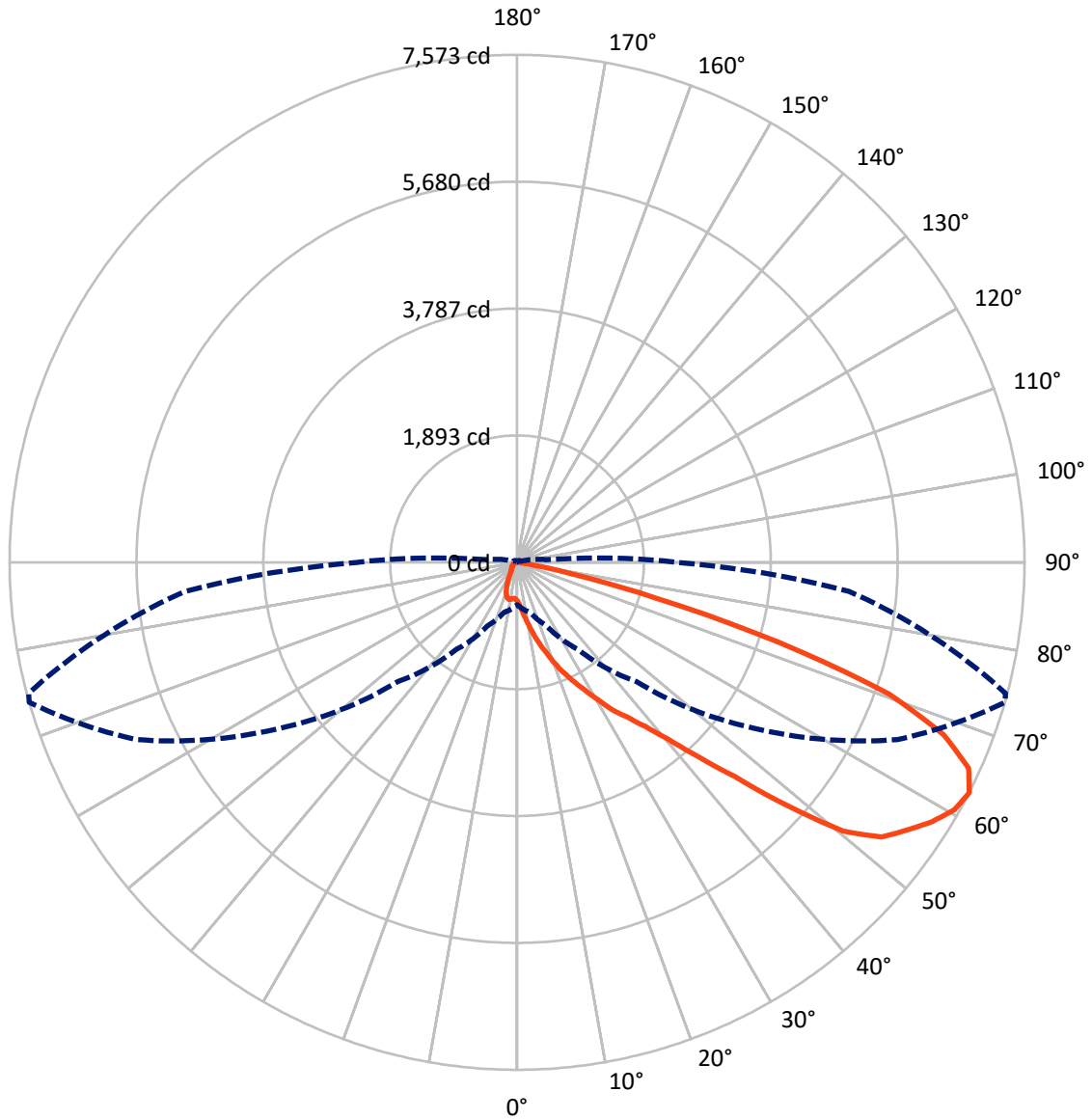
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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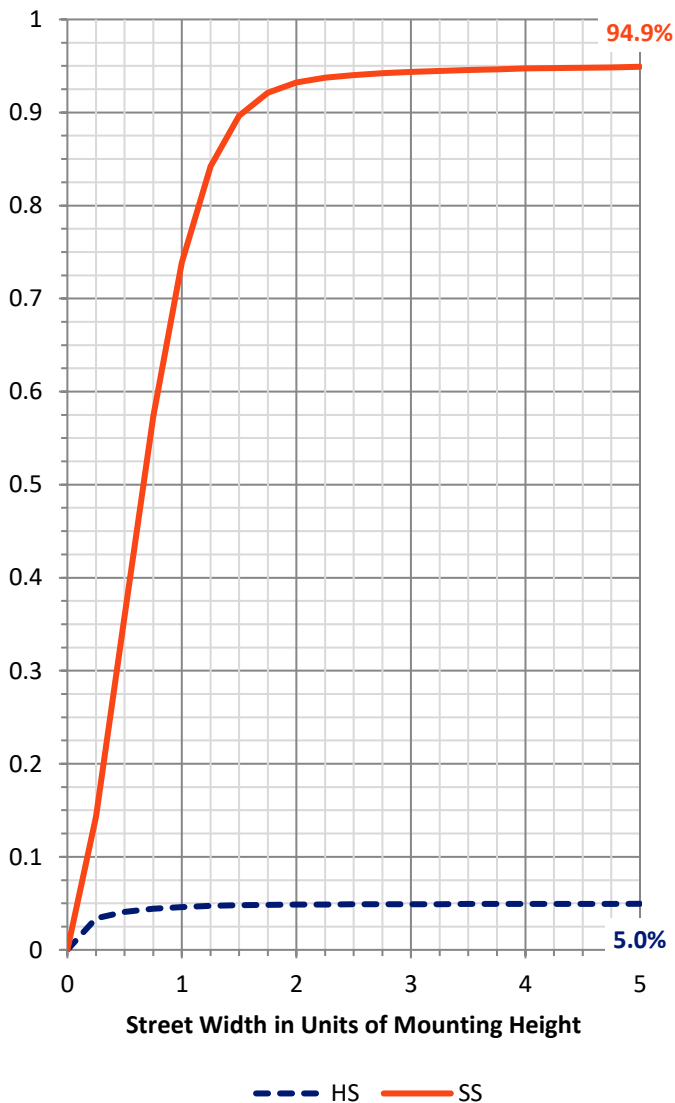
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	392.3	0.0	392.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7472.7	0.0	7472.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	7865.0	0.0	7865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	0.9
10°-20°	302.4	3.8
20°-30°	649.1	8.3
30°-40°	1138.3	14.5
40°-50°	1764.7	22.4
50°-60°	2034.5	25.9
60°-70°	1429.3	18.2
70°-80°	445.3	5.7
80°-90°	29.4	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°	7865.0	100.0
0°-180°	7865.0	100.0

Coefficient of Utilization

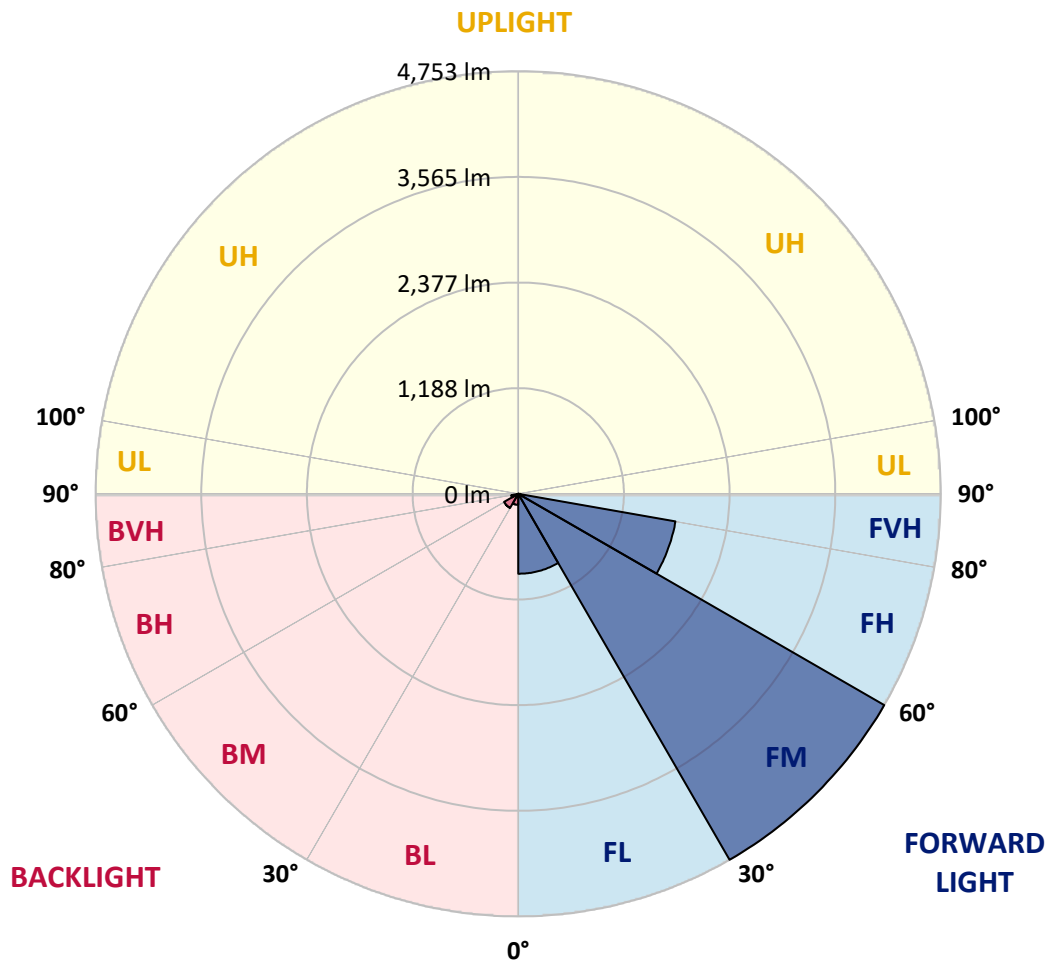


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.0	11.4			
FM (30°-60°)	4753.2	60.4			
FH (60°-80°)	1795.1	22.8			G1/1800
FVH (80°-90°)	25.4	0.3			G1/100
BL (0°-30°)	124.5	1.6	B1/500		
BM (30°-60°)	184.3	2.3	B0/220		
BH (60°-80°)	79.4	1.0	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7
2.5°	799.9	786.1	769.5	755.7	728.0	708.6	683.7	656.0	625.6	622.8	597.9
5°	1121.0	1079.5	1079.5	1043.5	1002.0	927.3	858.1	772.3	708.6	703.1	636.6
7.5°	1450.4	1417.2	1397.8	1342.5	1276.0	1193.0	1082.3	938.3	822.1	802.7	694.8
10°	1757.7	1732.8	1696.8	1652.5	1594.4	1458.7	1320.3	1132.1	946.7	932.8	764.0
12.5°	1995.7	1965.3	1948.7	1929.3	1854.6	1746.6	1566.7	1328.6	1107.2	1076.7	833.2
15°	2175.6	2161.8	2145.2	2145.2	2106.4	2001.3	1815.8	1539.0	1262.2	1226.2	921.7
17.5°	2319.6	2303.0	2300.2	2316.8	2305.7	2231.0	2056.6	1741.1	1422.7	1395.1	1013.1
20°	2480.1	2458.0	2458.0	2471.8	2469.0	2427.5	2275.3	1973.6	1611.0	1561.1	1118.3
22.5°	2707.1	2693.3	2682.2	2660.0	2643.4	2604.7	2471.8	2200.6	1790.9	1743.8	1226.2
25°	3011.6	2995.0	2945.1	2906.4	2834.4	2776.3	2662.8	2402.6	1973.6	1921.0	1331.4
27.5°	3307.7	3274.5	3227.5	3177.7	3097.4	2997.7	2856.6	2593.6	2164.6	2109.2	1439.4
30°	3620.5	3595.6	3537.5	3457.2	3357.6	3246.9	3078.0	2823.4	2383.2	2322.3	1555.6
32.5°	3869.7	3830.9	3778.3	3700.8	3598.4	3520.9	3338.2	3075.2	2635.1	2554.9	1677.4
35°	4068.9	4038.5	3969.3	3894.6	3817.1	3794.9	3595.6	3280.1	2837.2	2762.5	1807.5
37.5°	4196.3	4165.8	4107.7	4033.0	4002.5	4041.3	3911.2	3559.6	3108.5	3014.3	1957.0
40°	4295.9	4259.9	4212.9	4179.7	4168.6	4276.5	4262.7	3922.2	3465.5	3410.2	2161.8
42.5°	4367.9	4331.9	4301.5	4298.7	4370.7	4581.0	4736.0	4428.8	3963.8	3850.3	2424.8
45°	4276.5	4246.1	4262.7	4359.6	4534.0	4866.1	5309.0	5145.7	4564.4	4484.1	2845.5
47.5°	4021.9	4002.5	4077.3	4254.4	4578.3	5040.5	5862.6	5931.8	5422.5	5300.7	3390.8
50°	3623.3	3620.5	3739.6	3980.4	4439.9	5106.9	6142.2	6687.5	6302.7	6178.2	3833.7
52.5°	3083.5	3072.5	3246.9	3581.8	4113.2	4982.4	6194.8	6989.2	6812.0	6665.3	4113.2
55°	2471.8	2446.9	2654.5	3022.6	3631.6	4619.8	6053.6	7055.6	7055.6	6922.7	4320.8
57.5°	1738.3	1777.1	1948.7	2391.5	3036.5	4077.3	5704.8	6994.7	7302.0	7188.5	4600.4
60°	1096.1	1112.7	1301.0	1658.0	2303.0	3352.0	5082.0	6731.8	7498.5	7432.1	4824.6
62.5°	631.1	683.7	777.8	1049.1	1588.8	2518.9	4312.5	6258.4	7573.2	7545.5	4971.3
65°	384.8	390.3	434.6	592.4	977.1	1718.9	3451.7	5599.6	7404.4	7429.3	4943.6
67.5°	287.9	287.9	301.7	373.7	556.4	1093.4	2546.6	4799.7	6864.6	6944.9	4683.4
70°	249.1	249.1	251.9	274.0	343.2	647.7	1682.9	3869.7	5884.7	5876.4	3869.7
72.5°	196.5	204.8	221.4	232.5	260.2	379.2	985.4	2704.3	4088.3	4185.2	2491.2
75°	157.8	160.5	182.7	202.1	218.7	257.4	465.0	1503.0	2145.2	2145.2	1096.1
77.5°	121.8	127.3	141.2	160.5	182.7	182.7	193.8	581.3	830.4	802.7	323.9
80°	77.5	80.3	102.4	127.3	152.2	130.1	105.2	193.8	227.0	218.7	88.6
82.5°	47.1	49.8	66.4	102.4	102.4	72.0	66.4	80.3	72.0	66.4	36.0
85°	13.8	16.6	47.1	66.4	58.1	27.7	33.2	36.0	33.2	30.4	19.4
87.5°	2.8	2.8	13.8	16.6	13.8	13.8	11.1	13.8	13.8	13.8	8.3
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°	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7	575.7
2.5°	584.0	573.0	550.8	534.2	520.4	506.5	495.5	492.7	487.2	487.2	484.4
5°	609.0	584.0	542.5	514.8	492.7	473.3	456.7	440.1	434.6	429.0	431.8
7.5°	647.7	609.0	550.8	509.3	470.6	426.3	390.3	359.8	337.7	332.2	323.9
10°	697.5	639.4	564.7	498.2	426.3	348.8	298.9	268.5	257.4	243.6	246.4
12.5°	747.4	675.4	575.7	467.8	351.5	274.0	232.5	213.1	204.8	202.1	204.8
15°	805.5	714.1	570.2	412.4	282.3	221.4	196.5	188.2	182.7	182.7	179.9
17.5°	863.6	747.4	550.8	340.5	227.0	188.2	177.2	168.8	163.3	160.5	160.5
20°	927.3	777.8	506.5	271.3	188.2	171.6	160.5	149.5	143.9	143.9	143.9
22.5°	993.7	799.9	448.4	215.9	168.8	152.2	141.2	132.9	127.3	127.3	127.3
25°	1051.8	811.0	379.2	179.9	155.0	138.4	127.3	119.0	116.3	113.5	113.5
27.5°	1107.2	808.3	307.2	157.8	138.4	124.6	113.5	108.0	102.4	102.4	102.4
30°	1162.6	791.6	243.6	143.9	127.3	110.7	102.4	96.9	94.1	91.3	91.3
32.5°	1209.6	764.0	191.0	132.9	116.3	99.6	91.3	85.8	85.8	83.0	83.0
35°	1256.7	722.4	160.5	124.6	105.2	91.3	83.0	80.3	77.5	77.5	77.5
37.5°	1306.5	669.9	141.2	113.5	94.1	83.0	77.5	74.7	72.0	69.2	69.2
40°	1367.4	617.3	132.9	105.2	85.8	74.7	69.2	66.4	63.7	63.7	63.7
42.5°	1464.3	573.0	124.6	94.1	77.5	69.2	63.7	58.1	58.1	55.4	55.4
45°	1647.0	556.4	116.3	85.8	72.0	60.9	58.1	52.6	49.8	49.8	49.8
47.5°	1885.0	559.1	108.0	77.5	66.4	55.4	52.6	49.8	44.3	44.3	44.3
50°	2081.5	545.3	99.6	72.0	58.1	52.6	47.1	44.3	41.5	41.5	41.5
52.5°	2159.0	520.4	91.3	66.4	55.4	47.1	44.3	41.5	38.8	38.8	38.8
55°	2236.5	509.3	83.0	58.1	49.8	47.1	41.5	38.8	36.0	33.2	33.2
57.5°	2377.7	514.8	74.7	55.4	47.1	44.3	38.8	33.2	27.7	24.9	24.9
60°	2452.4	495.5	69.2	49.8	44.3	41.5	33.2	24.9	19.4	16.6	16.6
62.5°	2388.8	440.1	63.7	47.1	41.5	36.0	24.9	19.4	13.8	8.3	8.3
65°	2211.6	362.6	58.1	44.3	36.0	27.7	22.1	13.8	8.3	5.5	5.5
67.5°	1987.4	285.1	52.6	41.5	33.2	24.9	19.4	11.1	5.5	2.8	2.8
70°	1605.4	204.8	49.8	38.8	30.4	22.1	16.6	11.1	5.5	2.8	2.8
72.5°	1035.2	132.9	44.3	36.0	27.7	22.1	13.8	8.3	5.5	2.8	2.8
75°	478.9	88.6	41.5	33.2	27.7	19.4	13.8	11.1	5.5	2.8	2.8
77.5°	141.2	63.7	38.8	30.4	24.9	19.4	13.8	11.1	5.5	2.8	2.8
80°	58.1	44.3	30.4	27.7	24.9	19.4	13.8	11.1	5.5	2.8	2.8
82.5°	27.7	19.4	13.8	11.1	13.8	13.8	11.1	11.1	5.5	2.8	2.8
85°	13.8	8.3	5.5	5.5	5.5	2.8	2.8	5.5	5.5	2.8	2.8
87.5°	8.3	5.5	5.5	5.5	2.8	2.8	2.8	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)