

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: P572815

Luminaire Tested: **ARCH-S-PA2-120-730-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572815
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-PA2-120-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 10952 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

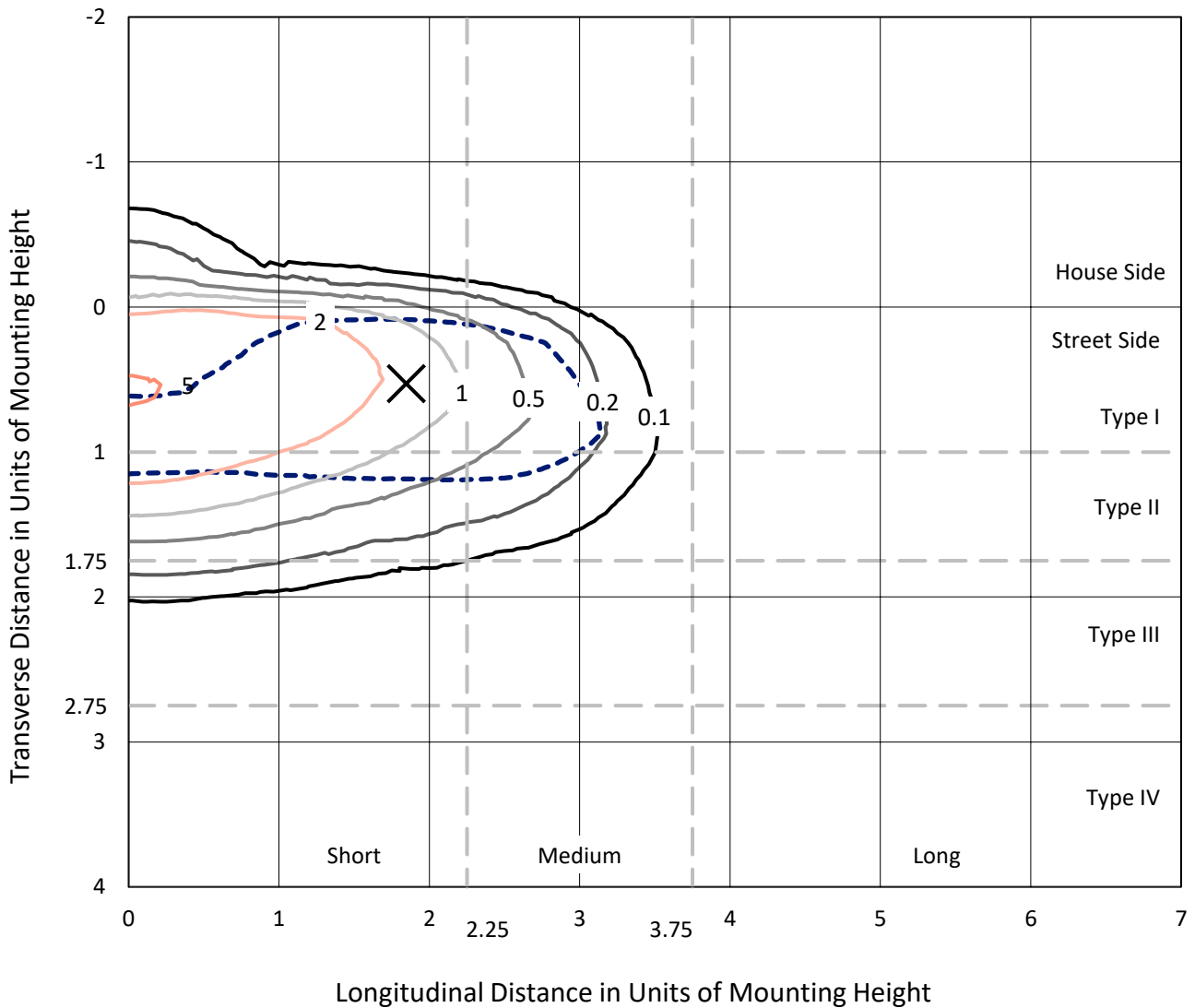
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

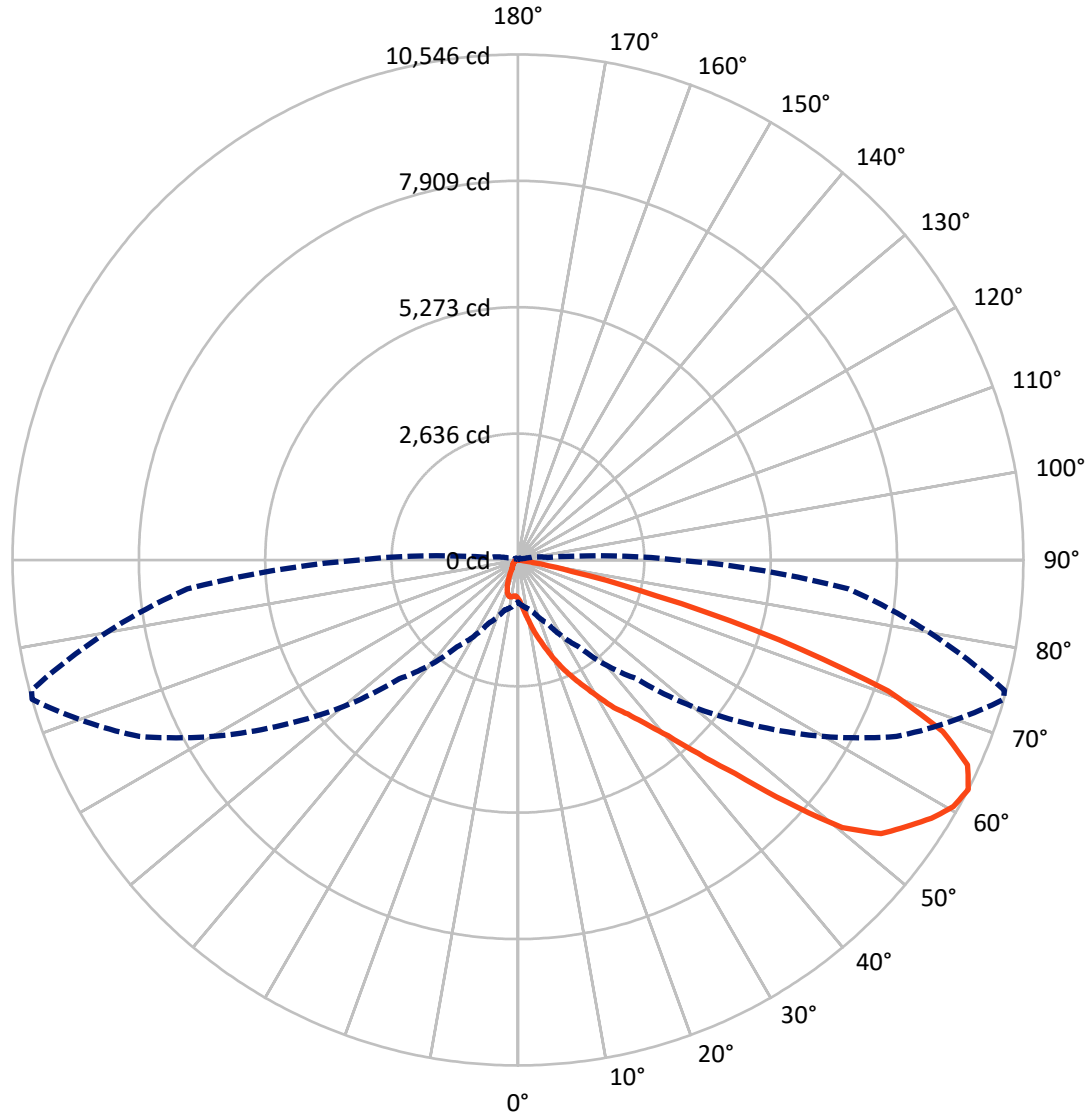
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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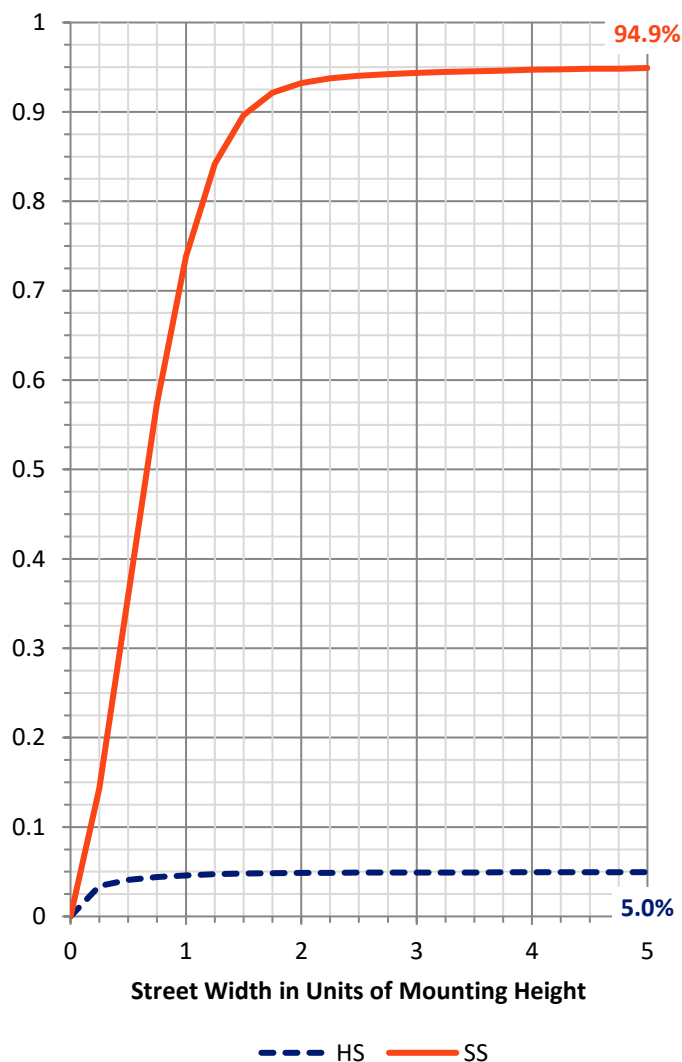
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.2	0.0	546.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10405.8	0.0	10405.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	10952.0	0.0	10952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	0.9
10°-20°	421.2	3.8
20°-30°	903.8	8.3
30°-40°	1585.1	14.5
40°-50°	2457.4	22.4
50°-60°	2833.0	25.9
60°-70°	1990.2	18.2
70°-80°	620.1	5.7
80°-90°	41.0	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°	10952.0	100.0
0°-180°	10952.0	100.0

Coefficient of Utilization

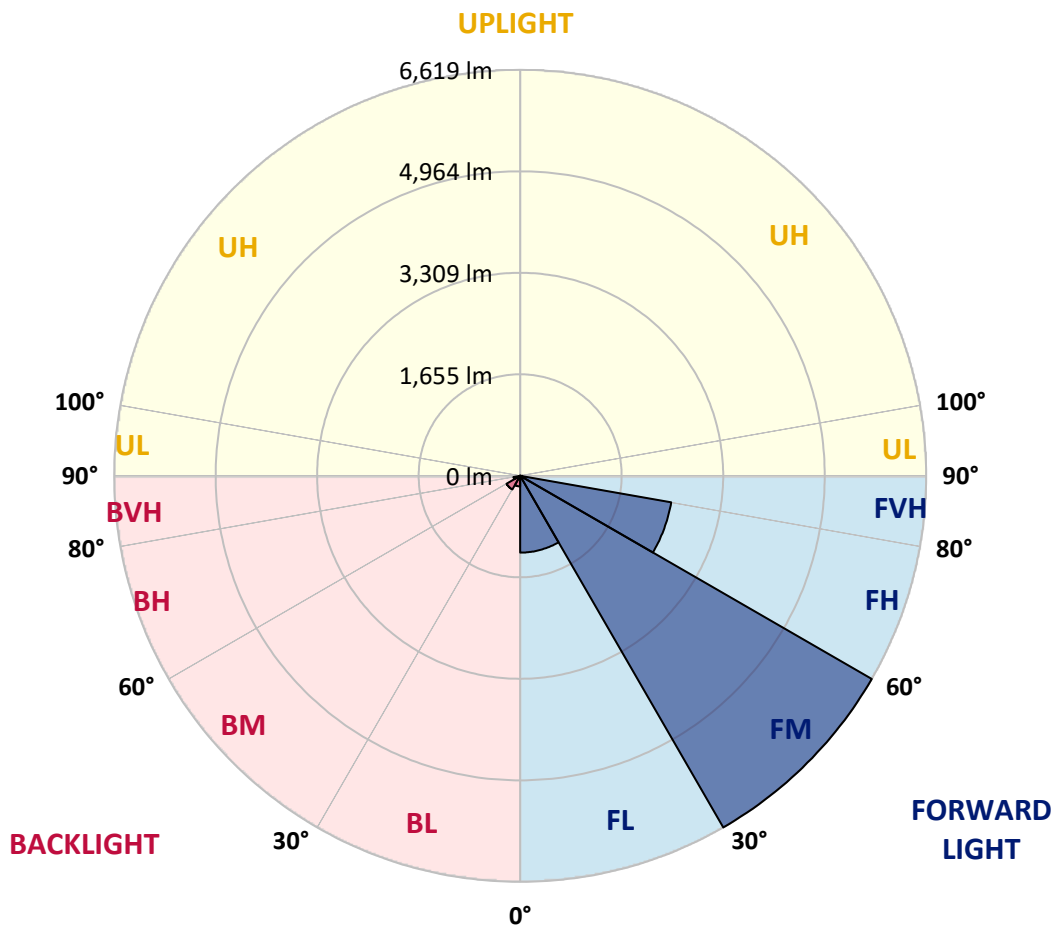


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.9	11.4			
FM (30°-60°)	6618.8	60.4			
FH (60°-80°)	2499.7	22.8			G2/5000
FVH (80°-90°)	35.4	0.3			G1/100
BL (0°-30°)	173.3	1.6	B1/500		
BM (30°-60°)	256.7	2.3	B1/1000		
BH (60°-80°)	110.6	1.0	B1/500		G1/500
BVH (80°-90°)	5.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
2.5°	1113.9	1094.7	1071.5	1052.3	1013.7	986.7	952.0	913.5	871.1	867.2	832.6
5°	1561.0	1503.2	1503.2	1453.1	1395.3	1291.2	1194.9	1075.4	986.7	979.0	886.5
7.5°	2019.7	1973.5	1946.5	1869.4	1776.9	1661.3	1507.1	1306.6	1144.8	1117.8	967.5
10°	2447.6	2412.9	2362.8	2301.1	2220.1	2031.3	1838.6	1576.5	1318.2	1298.9	1063.8
12.5°	2779.0	2736.6	2713.5	2686.5	2582.5	2432.1	2181.6	1850.1	1541.8	1499.4	1160.2
15°	3029.6	3010.3	2987.2	2987.2	2933.2	2786.7	2528.5	2143.1	1757.6	1707.5	1283.5
17.5°	3230.0	3206.9	3203.0	3226.2	3210.7	3106.7	2863.8	2424.4	1981.2	1942.6	1410.7
20°	3453.6	3422.7	3422.7	3442.0	3438.1	3380.3	3168.3	2748.2	2243.3	2173.9	1557.2
22.5°	3769.6	3750.4	3734.9	3704.1	3681.0	3627.0	3442.0	3064.3	2493.8	2428.3	1707.5
25°	4193.6	4170.5	4101.1	4047.1	3946.9	3866.0	3708.0	3345.6	2748.2	2675.0	1854.0
27.5°	4606.0	4559.8	4494.3	4424.9	4313.1	4174.3	3977.8	3611.6	3014.2	2937.1	2004.3
30°	5041.6	5006.9	4926.0	4814.2	4675.4	4521.2	4286.1	3931.5	3318.7	3233.9	2166.2
32.5°	5388.5	5334.5	5261.3	5153.4	5010.7	4902.8	4648.4	4282.3	3669.4	3557.6	2335.8
35°	5666.0	5623.6	5527.2	5423.2	5315.2	5284.4	5006.9	4567.5	3950.8	3846.7	2516.9
37.5°	5843.3	5800.9	5720.0	5615.9	5573.5	5627.5	5446.3	4956.8	4328.5	4197.5	2725.1
40°	5982.1	5932.0	5866.4	5820.2	5804.8	5955.1	5935.8	5461.7	4825.7	4748.6	3010.3
42.5°	6082.3	6032.2	5989.8	5985.9	6086.1	6379.1	6594.9	6167.1	5519.5	5361.5	3376.5
45°	5955.1	5912.7	5935.8	6070.7	6313.5	6776.1	7392.8	7165.4	6355.9	6244.2	3962.3
47.5°	5600.5	5573.5	5677.6	5924.2	6375.2	7018.9	8163.7	8260.0	7550.8	7381.2	4721.7
50°	5045.4	5041.6	5207.3	5542.7	6182.5	7111.4	8553.0	9312.3	8776.5	8603.1	5338.4
52.5°	4293.8	4278.4	4521.2	4987.6	5727.7	6938.0	8626.2	9732.4	9485.7	9281.5	5727.7
55°	3442.0	3407.3	3696.4	4209.0	5057.0	6433.0	8429.6	9824.9	9824.9	9639.9	6016.8
57.5°	2420.6	2474.5	2713.5	3330.2	4228.3	5677.6	7944.0	9740.1	10168.0	10009.9	6406.1
60°	1526.4	1549.5	1811.6	2308.8	3206.9	4667.7	7076.7	9374.0	10441.6	10349.1	6718.3
62.5°	878.8	952.0	1083.1	1460.8	2212.4	3507.5	6005.2	8714.9	10545.7	10507.2	6922.5
65°	535.8	543.5	605.1	824.8	1360.6	2393.6	4806.5	7797.5	10310.6	10345.3	6884.0
67.5°	400.9	400.9	420.1	520.3	774.7	1522.5	3546.1	6683.6	9559.0	9670.7	6521.7
70°	346.9	346.9	350.8	381.6	477.9	901.9	2343.5	5388.5	8194.5	8182.9	5388.5
72.5°	273.7	285.2	308.4	323.8	362.3	528.1	1372.2	3765.8	5693.0	5827.9	3469.0
75°	219.7	223.6	254.4	281.4	304.5	358.5	647.5	2093.0	2987.2	2987.2	1526.4
77.5°	169.6	177.3	196.6	223.6	254.4	254.4	269.8	809.4	1156.3	1117.8	451.0
80°	107.9	111.8	142.6	177.3	212.0	181.2	146.5	269.8	316.1	304.5	123.3
82.5°	65.5	69.4	92.5	142.6	142.6	100.2	92.5	111.8	100.2	92.5	50.1
85°	19.3	23.1	65.5	92.5	80.9	38.5	46.3	50.1	46.3	42.4	27.0
87.5°	3.9	3.9	19.3	23.1	19.3	19.3	15.4	19.3	19.3	19.3	11.6
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°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
2.5°	813.3	797.9	767.0	743.9	724.6	705.4	689.9	686.1	678.4	678.4	674.5
5°	848.0	813.3	755.5	716.9	686.1	659.1	636.0	612.9	605.1	597.4	601.3
7.5°	901.9	848.0	767.0	709.2	655.3	593.6	543.5	501.1	470.2	462.5	451.0
10°	971.3	890.4	786.3	693.8	593.6	485.7	416.3	373.9	358.5	339.2	343.0
12.5°	1040.7	940.5	801.7	651.4	489.5	381.6	323.8	296.8	285.2	281.4	285.2
15°	1121.6	994.4	794.0	574.3	393.2	308.4	273.7	262.1	254.4	254.4	250.5
17.5°	1202.6	1040.7	767.0	474.1	316.1	262.1	246.7	235.1	227.4	223.6	223.6
20°	1291.2	1083.1	705.4	377.7	262.1	239.0	223.6	208.1	200.4	200.4	200.4
22.5°	1383.7	1113.9	624.4	300.6	235.1	212.0	196.6	185.0	177.3	177.3	177.3
25°	1464.7	1129.3	528.1	250.5	215.8	192.7	177.3	165.7	161.9	158.0	158.0
27.5°	1541.8	1125.5	427.8	219.7	192.7	173.4	158.0	150.3	142.6	142.6	142.6
30°	1618.9	1102.4	339.2	200.4	177.3	154.2	142.6	134.9	131.1	127.2	127.2
32.5°	1684.4	1063.8	266.0	185.0	161.9	138.8	127.2	119.5	119.5	115.6	115.6
35°	1749.9	1006.0	223.6	173.4	146.5	127.2	115.6	111.8	107.9	107.9	107.9
37.5°	1819.3	932.8	196.6	158.0	131.1	115.6	107.9	104.1	100.2	96.4	96.4
40°	1904.1	859.5	185.0	146.5	119.5	104.1	96.4	92.5	88.7	88.7	88.7
42.5°	2039.0	797.9	173.4	131.1	107.9	96.4	88.7	80.9	80.9	77.1	77.1
45°	2293.4	774.7	161.9	119.5	100.2	84.8	80.9	73.2	69.4	69.4	69.4
47.5°	2624.9	778.6	150.3	107.9	92.5	77.1	73.2	69.4	61.7	61.7	61.7
50°	2898.5	759.3	138.8	100.2	80.9	73.2	65.5	61.7	57.8	57.8	57.8
52.5°	3006.4	724.6	127.2	92.5	77.1	65.5	61.7	57.8	54.0	54.0	54.0
55°	3114.4	709.2	115.6	80.9	69.4	65.5	57.8	54.0	50.1	46.3	46.3
57.5°	3310.9	716.9	104.1	77.1	65.5	61.7	54.0	46.3	38.5	34.7	34.7
60°	3415.0	689.9	96.4	69.4	61.7	57.8	46.3	34.7	27.0	23.1	23.1
62.5°	3326.4	612.9	88.7	65.5	57.8	50.1	34.7	27.0	19.3	11.6	11.6
65°	3079.7	504.9	80.9	61.7	50.1	38.5	30.8	19.3	11.6	7.7	7.7
67.5°	2767.5	397.0	73.2	57.8	46.3	34.7	27.0	15.4	7.7	3.9	3.9
70°	2235.6	285.2	69.4	54.0	42.4	30.8	23.1	15.4	7.7	3.9	3.9
72.5°	1441.6	185.0	61.7	50.1	38.5	30.8	19.3	11.6	7.7	3.9	3.9
75°	666.8	123.3	57.8	46.3	38.5	27.0	19.3	15.4	7.7	3.9	3.9
77.5°	196.6	88.7	54.0	42.4	34.7	27.0	19.3	15.4	7.7	3.9	3.9
80°	80.9	61.7	42.4	38.5	34.7	27.0	19.3	15.4	7.7	3.9	3.9
82.5°	38.5	27.0	19.3	15.4	19.3	19.3	15.4	15.4	7.7	3.9	3.9
85°	19.3	11.6	7.7	7.7	7.7	3.9	3.9	7.7	7.7	3.9	3.9
87.5°	11.6	7.7	7.7	7.7	3.9	3.9	3.9	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)