

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: P573451

Luminaire Tested: **ARCH-S-PA2-80-722-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-722-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6376 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

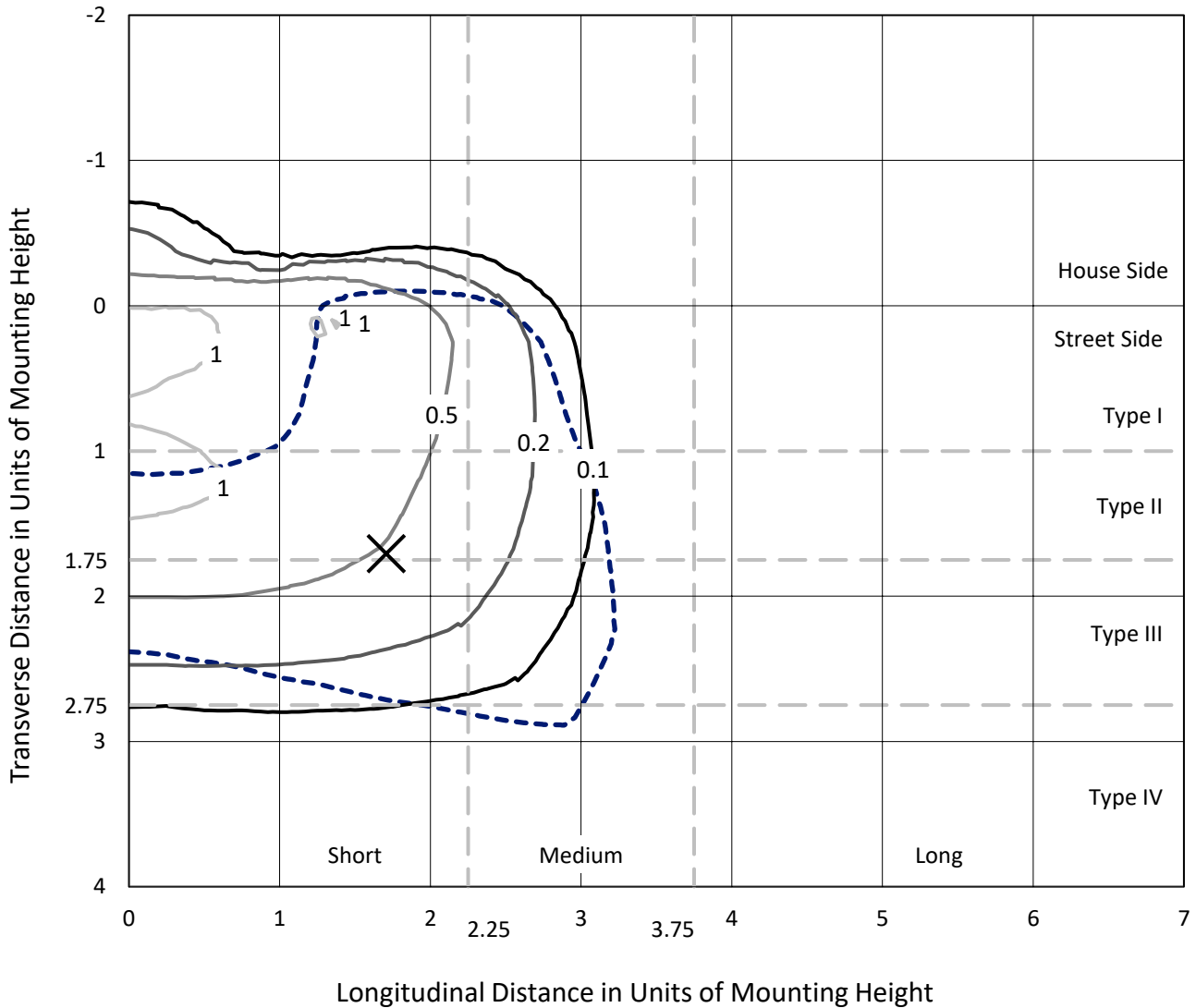
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

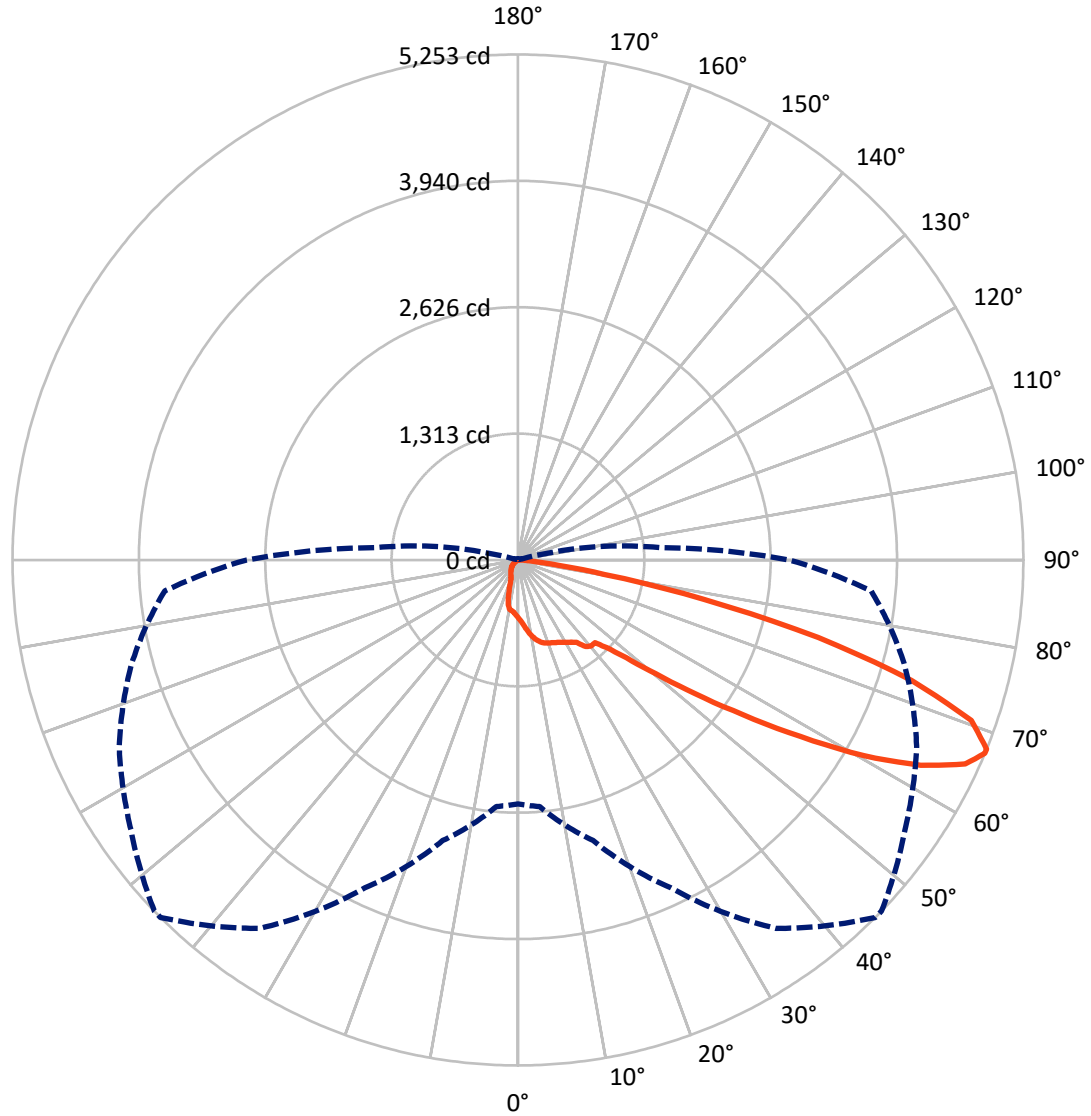
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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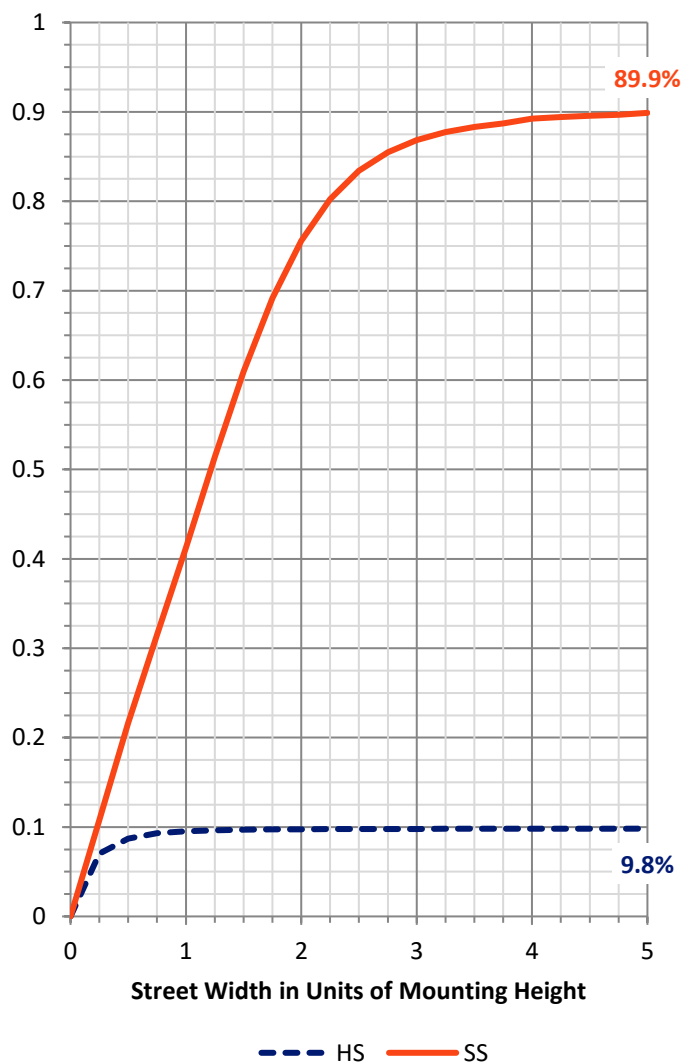
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.8	0.0	631.8
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	5744.2	0.0	5744.2
	% Fixture	90.1	0.0	90.1
Total	Lumens	6376.0	0.0	6376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	0.9
10°-20°	183.0	2.9
20°-30°	292.7	4.6
30°-40°	421.2	6.6
40°-50°	739.0	11.6
50°-60°	1557.0	24.4
60°-70°	2153.1	33.8
70°-80°	901.4	14.1
80°-90°	68.2	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°	6376.0	100.0
0°-180°	6376.0	100.0

Coefficient of Utilization

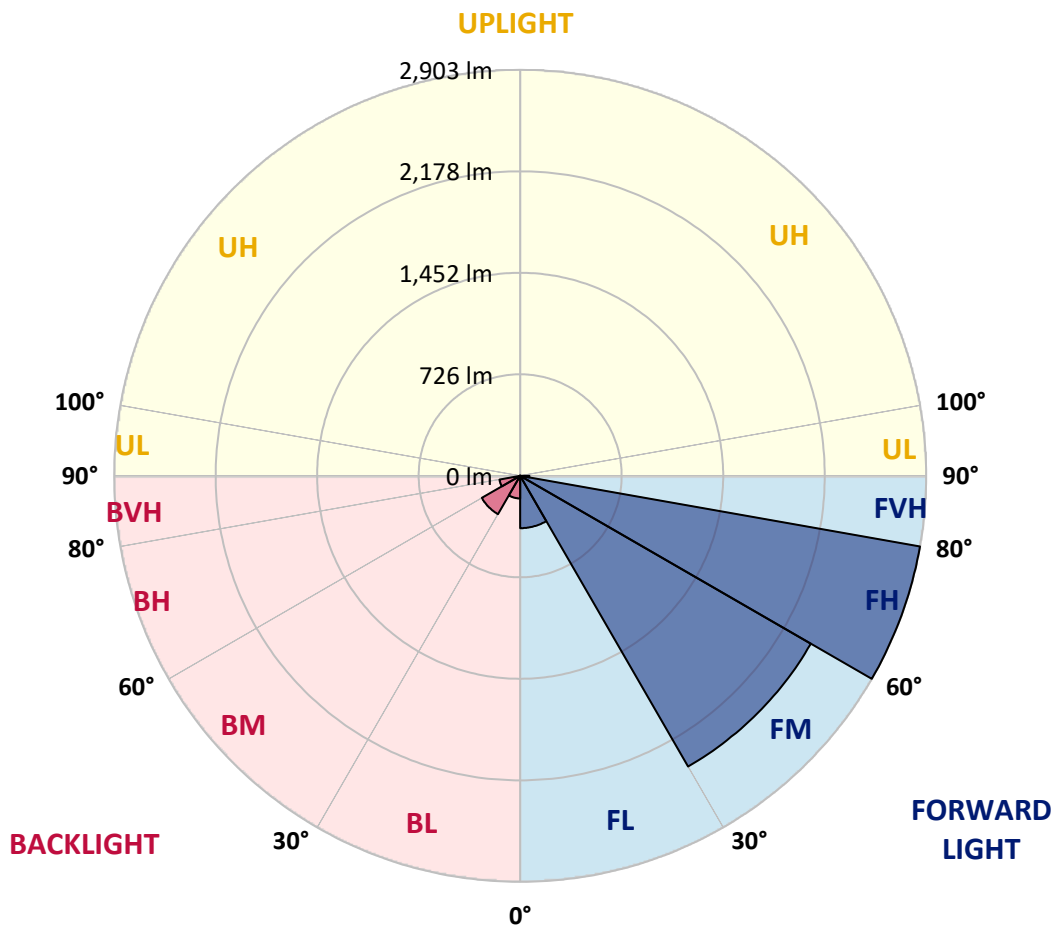


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.2	5.9			
FM (30°-60°)	2400.7	37.7			
FH (60°-80°)	2903.5	45.5			G2/5000
FVH (80°-90°)	65.9	1.0			G1/100
BL (0°-30°)	161.9	2.5	B1/500		
BM (30°-60°)	316.5	5.0	B1/1000		
BH (60°-80°)	151.0	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
2.5°	671.3	659.5	657.2	654.8	647.8	638.3	640.7	633.6	621.8	614.8	607.7
5°	753.7	742.0	737.3	723.1	709.0	687.8	687.8	669.0	647.8	628.9	610.1
7.5°	838.5	829.1	819.7	798.5	777.3	749.0	746.7	718.4	685.4	657.2	626.6
10°	909.2	902.1	890.4	864.5	836.2	805.6	798.5	772.6	730.2	692.5	652.5
12.5°	965.7	958.7	942.2	916.3	880.9	850.3	848.0	815.0	772.6	732.5	683.1
15°	1008.1	996.4	977.5	949.3	913.9	885.7	880.9	852.7	812.6	767.9	709.0
17.5°	1015.2	1008.1	991.6	961.0	930.4	906.9	904.5	883.3	848.0	800.9	739.6
20°	996.4	994.0	979.9	956.3	932.8	921.0	918.6	904.5	876.2	833.8	772.6
22.5°	968.1	965.7	956.3	944.5	935.1	932.8	932.8	928.1	911.6	871.5	815.0
25°	949.3	946.9	942.2	935.1	935.1	949.3	951.6	956.3	942.2	911.6	850.3
27.5°	951.6	946.9	942.2	935.1	944.5	970.4	972.8	984.6	972.8	944.5	890.4
30°	984.6	977.5	963.4	946.9	958.7	994.0	996.4	1010.5	1001.1	986.9	935.1
32.5°	1036.4	1031.7	1003.4	975.2	982.2	1017.6	1022.3	1048.2	1060.0	1038.8	975.2
35°	1111.8	1095.3	1060.0	1031.7	1027.0	1052.9	1060.0	1102.4	1133.0	1081.2	998.7
37.5°	1173.0	1158.9	1102.4	1057.6	1083.5	1142.4	1144.8	1196.6	1170.7	1085.9	1036.4
40°	1380.3	1377.9	1279.0	1137.7	1109.4	1175.4	1184.8	1194.2	1182.4	1140.0	1118.8
42.5°	1714.8	1686.5	1575.8	1359.1	1166.0	1173.0	1177.7	1227.2	1288.4	1269.6	1276.7
45°	2077.5	2054.0	1929.1	1655.9	1359.1	1300.2	1304.9	1385.0	1502.8	1526.3	1564.0
47.5°	2412.0	2374.3	2303.6	2028.1	1688.9	1516.9	1526.3	1622.9	1818.4	1870.2	1929.1
50°	2694.6	2668.7	2602.8	2421.4	2094.0	1858.5	1867.9	1948.0	2202.4	2284.8	2360.2
52.5°	3104.5	3069.2	2942.0	2857.2	2609.9	2303.6	2282.4	2367.2	2659.3	2713.5	2814.8
55°	3481.4	3408.4	3333.0	3297.6	3194.0	2836.0	2828.9	2845.4	3088.0	3116.3	3297.6
57.5°	3641.5	3627.4	3691.0	3808.8	3832.3	3462.5	3431.9	3368.3	3559.1	3556.7	3768.7
60°	3742.8	3742.8	3912.4	4204.5	4392.9	4131.5	4089.1	3891.2	3959.5	3961.9	4157.4
62.5°	3679.2	3695.7	3959.5	4400.0	4779.2	4699.1	4670.9	4338.8	4334.0	4279.9	4348.2
65°	3285.9	3314.1	3738.1	4291.6	4920.6	5109.0	5097.2	4720.3	4583.7	4385.9	4232.8
67°	2680.5	2732.3	3245.8	3900.6	4760.4	5250.3	5252.7	4885.2	4586.1	4209.2	3825.3
67.5°	2534.5	2572.2	3017.3	3759.3	4673.2	5252.7	5252.7	4906.4	4571.9	4155.0	3683.9
70°	1615.8	1625.3	2110.5	2909.0	3992.5	4998.3	5017.1	4746.3	4164.5	3363.6	2586.3
72.5°	798.5	777.3	1114.1	1872.6	2996.1	4277.5	4327.0	4053.7	3295.3	2197.6	1366.2
75°	313.3	334.5	485.2	996.4	1877.3	3224.6	3262.3	2949.0	2119.9	1133.0	539.4
77.5°	139.0	139.0	207.3	447.5	986.9	1978.6	1997.4	1799.6	1118.8	466.4	164.9
80°	75.4	80.1	108.4	195.5	497.0	909.2	991.6	892.7	506.4	204.9	56.5
82.5°	37.7	40.0	66.0	110.7	249.7	343.9	362.7	379.2	233.2	127.2	23.6
85°	14.1	16.5	35.3	63.6	113.1	115.4	115.4	148.4	127.2	96.6	11.8
87.5°	2.4	4.7	16.5	25.9	44.8	40.0	35.3	47.1	70.7	61.2	7.1
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°	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
2.5°	603.0	598.3	588.9	581.8	577.1	572.4	567.7	567.7	565.3	565.3	567.7
5°	603.0	593.6	574.7	563.0	553.5	546.5	541.8	541.8	539.4	541.8	544.1
7.5°	614.8	600.6	574.7	553.5	541.8	530.0	525.3	522.9	522.9	525.3	522.9
10°	633.6	614.8	581.8	553.5	537.0	520.6	494.6	471.1	449.9	440.5	438.1
12.5°	657.2	633.6	593.6	560.6	534.7	478.2	407.5	362.7	334.5	320.3	315.6
15°	683.1	654.8	607.7	570.0	499.4	393.4	301.5	252.0	235.5	237.9	240.3
17.5°	711.3	680.7	628.9	565.3	428.7	292.1	221.4	209.6	216.7	223.8	223.8
20°	739.6	706.6	650.1	530.0	336.8	216.7	197.9	200.2	207.3	214.3	214.3
22.5°	777.3	742.0	671.3	468.7	249.7	188.4	188.4	193.1	197.9	204.9	204.9
25°	817.3	782.0	685.4	393.4	186.1	176.7	179.0	183.7	188.4	195.5	195.5
27.5°	859.7	824.4	683.1	303.9	162.5	162.5	164.9	171.9	176.7	183.7	183.7
30°	906.9	876.2	657.2	221.4	150.7	148.4	148.4	155.5	162.5	167.2	169.6
32.5°	946.9	921.0	612.4	167.2	141.3	136.6	134.3	136.6	143.7	148.4	150.7
35°	979.9	970.4	546.5	143.7	131.9	124.8	120.1	117.8	120.1	120.1	122.5
37.5°	1041.1	1043.5	468.7	134.3	124.8	115.4	106.0	98.9	94.2	91.9	89.5
40°	1156.5	1154.2	386.3	127.2	117.8	106.0	91.9	82.4	70.7	66.0	66.0
42.5°	1319.1	1283.7	294.4	120.1	110.7	96.6	77.7	63.6	51.8	49.5	49.5
45°	1611.1	1465.1	221.4	115.4	103.6	84.8	63.6	47.1	40.0	37.7	37.7
47.5°	1933.8	1674.7	176.7	108.4	96.6	75.4	49.5	37.7	30.6	30.6	30.6
50°	2289.5	1874.9	148.4	101.3	84.8	63.6	40.0	30.6	28.3	25.9	28.3
52.5°	2678.2	2032.8	129.6	91.9	73.0	51.8	33.0	28.3	23.6	23.6	23.6
55°	3026.8	2138.8	108.4	80.1	61.2	42.4	30.6	23.6	21.2	18.8	16.5
57.5°	3342.4	2195.3	87.2	68.3	47.1	35.3	25.9	18.8	16.5	11.8	11.8
60°	3504.9	2143.5	68.3	54.2	37.7	28.3	21.2	16.5	11.8	7.1	7.1
62.5°	3530.8	2009.2	54.2	42.4	33.0	23.6	16.5	11.8	7.1	4.7	4.7
65°	3304.7	1773.7	44.8	35.3	25.9	18.8	14.1	9.4	4.7	2.4	2.4
67°	2899.6	1526.3	40.0	30.6	23.6	16.5	11.8	7.1	4.7	2.4	0.0
67.5°	2819.5	1481.6	37.7	30.6	23.6	16.5	11.8	7.1	4.7	2.4	0.0
70°	1851.4	1024.6	35.3	28.3	21.2	14.1	9.4	7.1	2.4	0.0	0.0
72.5°	1010.5	515.8	33.0	25.9	18.8	14.1	9.4	4.7	2.4	0.0	0.0
75°	369.8	195.5	28.3	23.6	16.5	14.1	9.4	4.7	2.4	0.0	0.0
77.5°	124.8	68.3	25.9	23.6	18.8	14.1	9.4	4.7	2.4	0.0	0.0
80°	42.4	30.6	21.2	18.8	14.1	11.8	9.4	4.7	2.4	0.0	0.0
82.5°	16.5	9.4	7.1	7.1	7.1	9.4	9.4	7.1	2.4	0.0	0.0
85°	7.1	4.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0
87.5°	7.1	4.7	2.4	2.4	2.4	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)