

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: P572888

Luminaire Tested: **ARCH-S-PA2-130-727-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13605 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

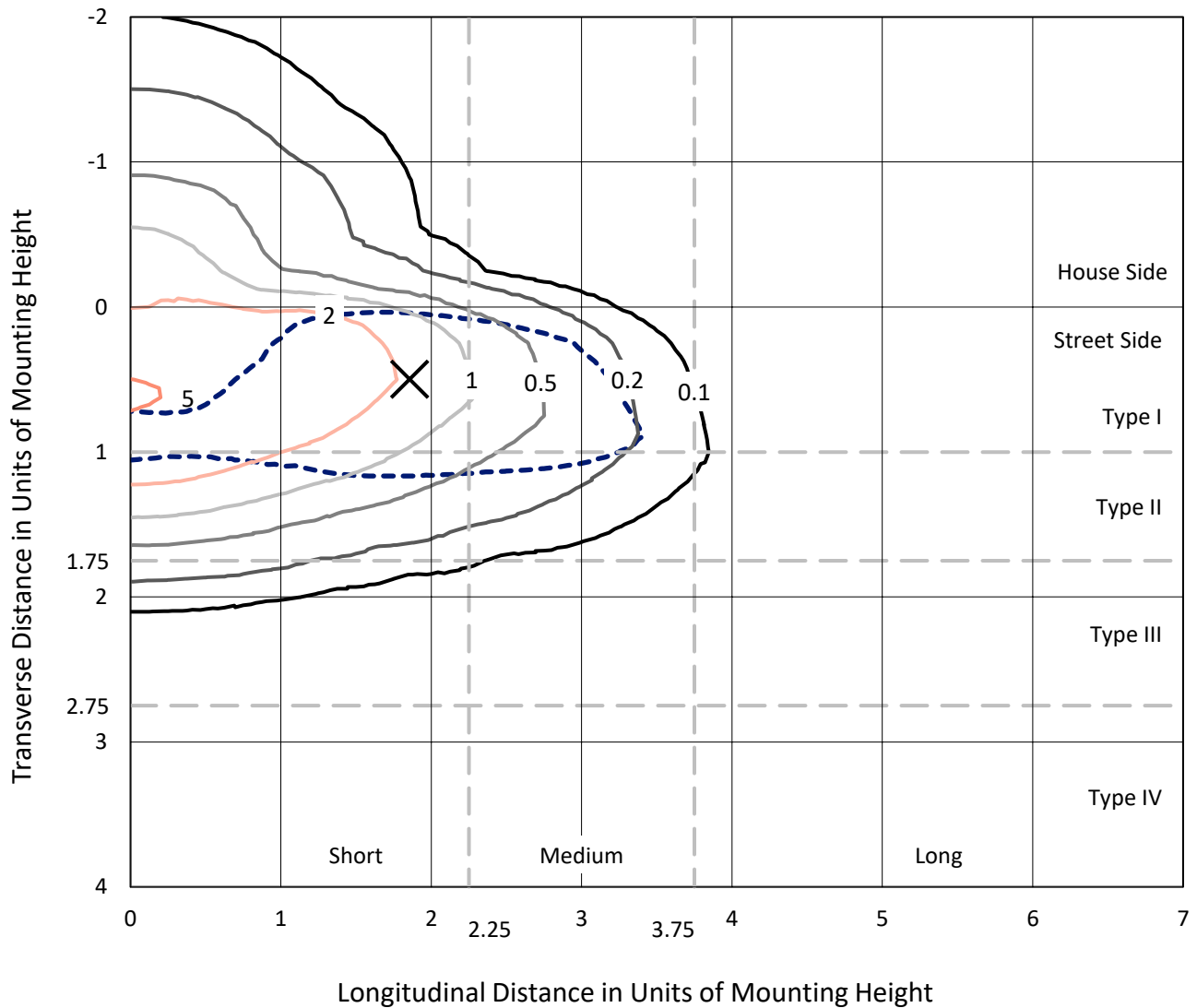
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

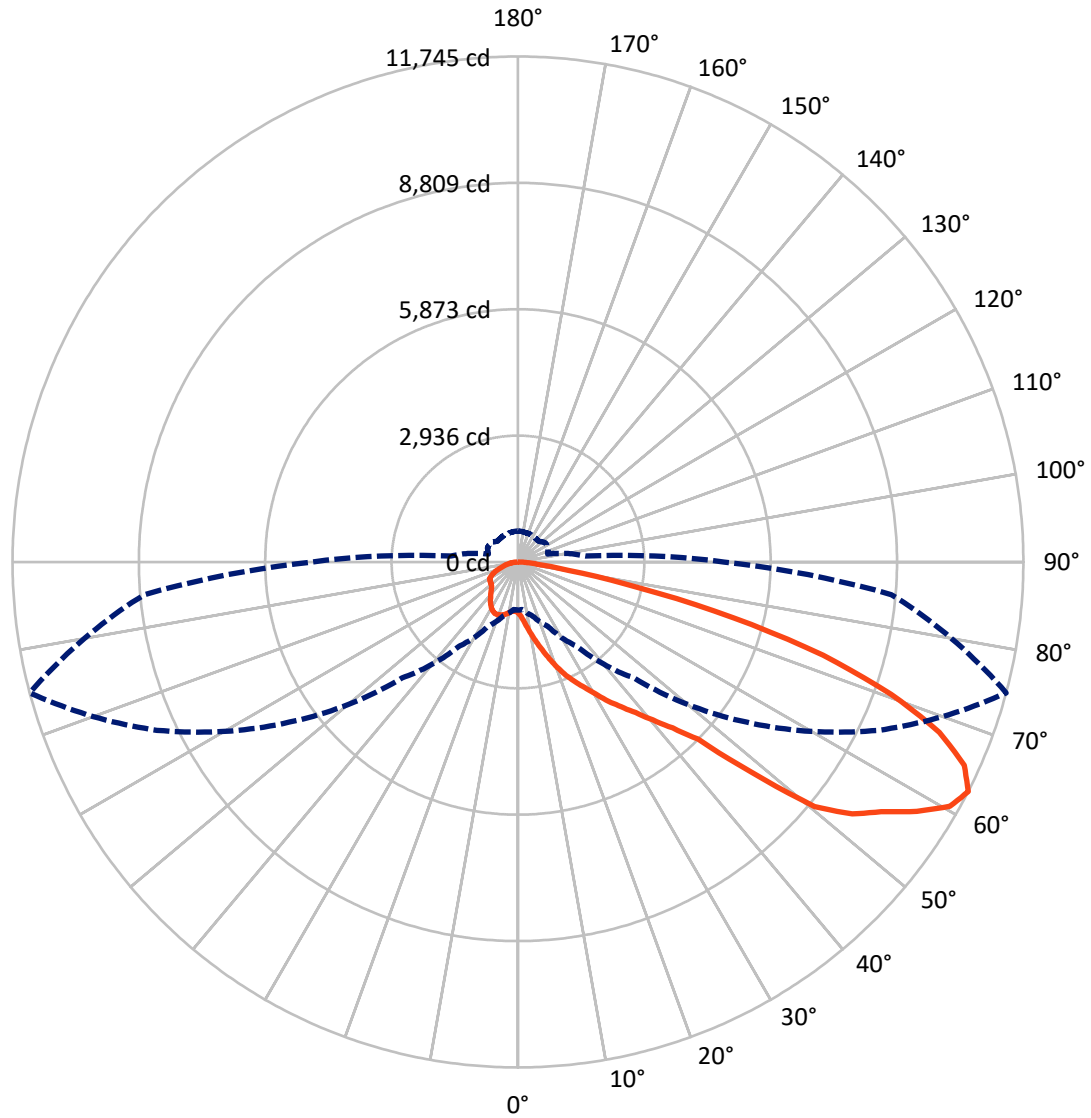
✕ Max cd
 - - - 1/2 Max cd



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 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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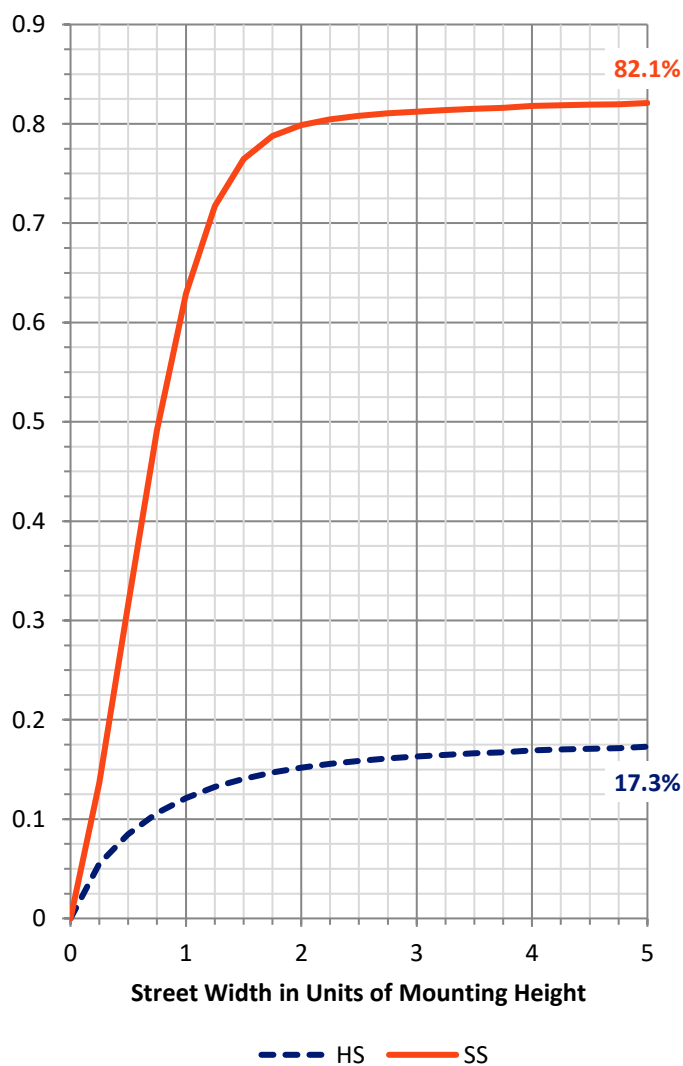
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2399.5	0.0	2399.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	11205.5	0.0	11205.5
	% Fixture	82.4	0.0	82.4
Total	Lumens	13605.0	0.0	13605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.0
10°-20°	563.0	4.1
20°-30°	1113.8	8.2
30°-40°	1856.5	13.6
40°-50°	2739.5	20.1
50°-60°	3293.1	24.2
60°-70°	2559.4	18.8
70°-80°	1132.3	8.3
80°-90°	205.0	1.5
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°	13605.0	100.0
0°-180°	13605.0	100.0

Coefficient of Utilization



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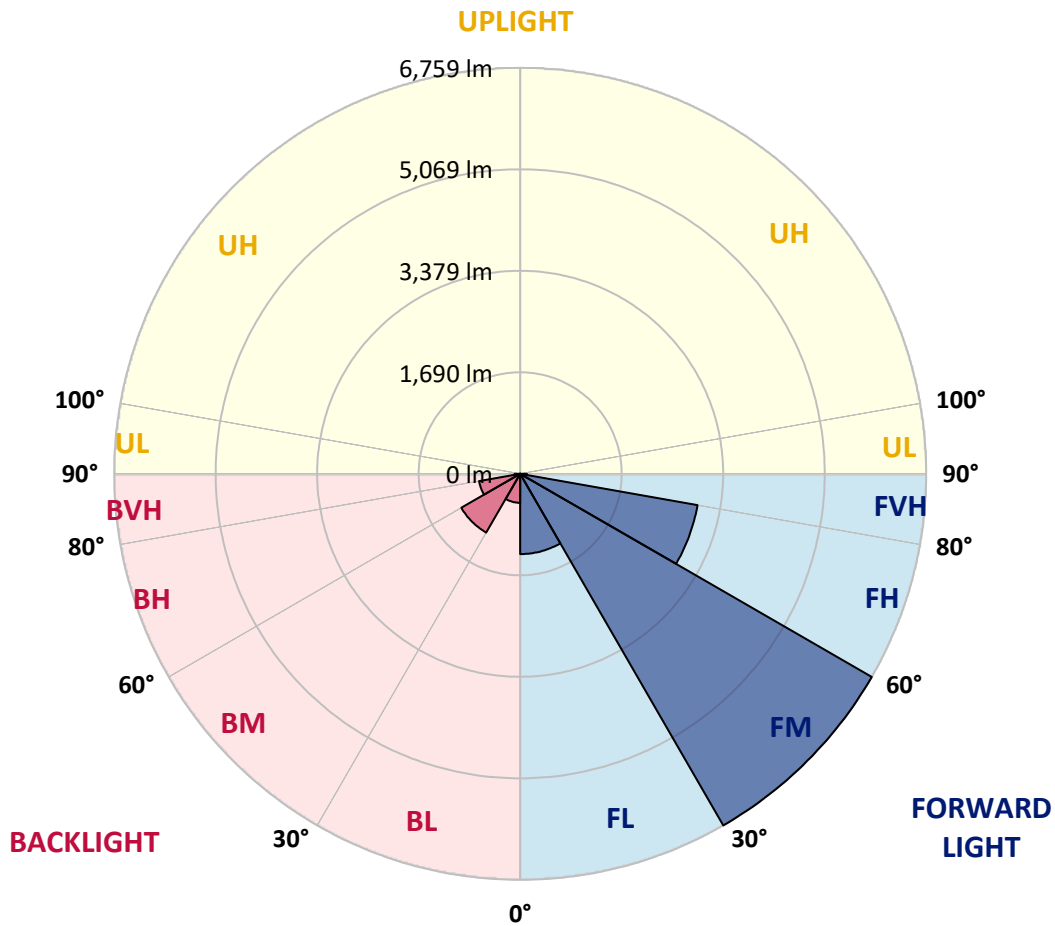
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.4	9.8			
FM (30°-60°)	6759.0	49.7			
FH (60°-80°)	2997.4	22.0			G2/5000
FVH (80°-90°)	112.7	0.8			G2/225
BL (0°-30°)	482.8	3.5	B1/500		
BM (30°-60°)	1130.2	8.3	B2/2500		
BH (60°-80°)	694.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	92.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9
2.5°	1516.3	1472.3	1472.3	1424.6	1428.2	1387.8	1343.8	1299.7	1252.0	1215.3	1196.9
5°	1982.6	1949.6	1938.6	1883.5	1795.4	1696.2	1589.8	1479.6	1365.8	1277.7	1233.6
7.5°	2419.5	2393.8	2379.2	2316.7	2195.6	2089.1	1920.2	1718.3	1523.7	1358.5	1292.4
10°	2742.6	2724.3	2694.9	2665.5	2577.4	2485.6	2276.3	1990.0	1703.6	1457.6	1358.5
12.5°	2977.6	2951.9	2951.9	2948.2	2889.5	2805.0	2610.5	2302.0	1912.9	1567.7	1431.9
15°	3135.5	3131.8	3142.8	3164.9	3150.2	3095.1	2900.5	2588.4	2125.8	1692.6	1516.3
17.5°	3253.0	3238.3	3260.3	3319.1	3363.1	3341.1	3179.5	2863.8	2360.8	1828.4	1608.1
20°	3381.5	3352.1	3381.5	3454.9	3510.0	3543.0	3465.9	3128.1	2614.1	1975.3	1696.2
22.5°	3627.5	3623.8	3609.1	3631.1	3667.9	3726.6	3682.5	3396.2	2860.1	2122.1	1799.0
25°	4068.1	4027.7	3987.3	3939.5	3899.2	3917.5	3880.8	3645.8	3084.1	2283.7	1887.2
27.5°	4560.0	4516.0	4442.5	4325.1	4214.9	4148.8	4071.7	3862.4	3300.7	2430.6	1971.6
30°	5011.6	4996.9	4886.8	4758.3	4567.4	4446.2	4299.4	4112.1	3561.4	2592.1	2059.7
32.5°	5433.9	5404.5	5294.3	5158.5	4934.5	4798.7	4596.8	4383.8	3858.8	2790.4	2151.5
35°	5797.3	5768.0	5639.5	5466.9	5272.3	5154.8	4923.5	4626.1	4130.5	2962.9	2228.6
37.5°	6072.7	6039.7	5918.5	5749.6	5577.1	5522.0	5323.7	4934.5	4438.9	3179.5	2324.1
40°	6226.9	6186.5	6105.8	5988.3	5845.1	5819.4	5734.9	5316.4	4828.1	3443.9	2463.6
42.5°	6245.3	6208.6	6164.5	6153.5	6142.5	6164.5	6204.9	5749.6	5272.3	3796.4	2669.2
45°	6083.7	6061.7	6065.4	6190.2	6362.8	6564.7	6807.0	6388.5	5870.8	4468.2	3131.8
47.5°	5738.6	5727.6	5808.4	6017.6	6403.1	6862.1	7548.7	7482.6	7288.0	5551.4	3726.6
50°	5180.5	5162.2	5334.7	5665.2	6215.9	6961.2	8048.0	8771.3	8932.8	6392.1	4115.8
52.5°	4380.1	4402.2	4670.2	5121.8	5786.3	6854.7	8253.6	9300.0	9725.9	7012.6	4413.2
55°	3561.4	3528.3	3770.7	4328.7	5151.2	6465.6	8294.0	9604.7	10239.9	7585.4	4703.2
57.5°	2595.8	2676.5	2933.6	3440.2	4332.4	5760.6	8059.0	9814.0	10930.1	8158.1	4971.2
60°	1758.7	1758.7	1986.3	2493.0	3348.4	4905.2	7431.2	9736.9	11532.3	8606.1	5030.0
62.5°	1119.8	1108.8	1292.4	1652.2	2397.5	3811.0	6491.3	9252.3	11745.2	8712.5	4784.0
65°	708.6	723.3	789.4	1009.7	1534.7	2705.9	5209.9	8286.6	11396.4	8466.5	4354.4
67.5°	569.1	572.8	605.8	697.6	943.6	1736.6	3862.4	6953.9	10563.0	7846.1	3851.4
70°	503.0	510.3	517.7	550.7	646.2	1097.8	2537.0	5599.1	9197.2	6766.6	3311.7
72.5°	458.9	466.3	473.6	481.0	532.4	715.9	1498.0	4244.3	7420.2	5198.9	2526.0
75°	422.2	429.6	429.6	433.2	462.6	532.4	822.4	2926.2	5165.8	3234.6	1575.1
77.5°	378.2	381.8	381.8	389.2	418.6	418.6	510.3	1810.1	2867.5	1464.9	796.7
80°	319.4	326.8	326.8	337.8	367.2	323.1	341.5	925.2	1189.6	602.1	356.1
82.5°	235.0	249.7	257.0	275.4	293.7	246.0	246.0	466.3	503.0	268.0	190.9
85°	128.5	132.2	190.9	205.6	216.6	146.9	165.2	231.3	249.7	117.5	95.5
87.5°	36.7	40.4	91.8	113.8	102.8	62.4	69.8	88.1	88.1	33.0	25.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9	1185.9
2.5°	1182.2	1152.9	1127.2	1108.8	1090.4	1079.4	1075.8	1068.4	1068.4	1072.1
5°	1196.9	1145.5	1105.1	1083.1	1068.4	1061.1	1057.4	1057.4	1061.1	1061.1
7.5°	1233.6	1156.5	1119.8	1101.5	1086.8	1079.4	1079.4	1075.8	1079.4	1079.4
10°	1285.0	1189.6	1149.2	1127.2	1116.1	1105.1	1101.5	1097.8	1097.8	1097.8
12.5°	1340.1	1226.3	1182.2	1156.5	1138.2	1123.5	1116.1	1108.8	1105.1	1105.1
15°	1391.5	1263.0	1204.3	1174.9	1149.2	1127.2	1112.5	1101.5	1097.8	1097.8
17.5°	1446.6	1288.7	1218.9	1178.6	1145.5	1116.1	1097.8	1083.1	1075.8	1075.8
20°	1505.3	1307.1	1218.9	1167.5	1123.5	1094.1	1072.1	1057.4	1042.7	1042.7
22.5°	1553.1	1314.4	1204.3	1141.8	1097.8	1061.1	1039.0	1020.7	1009.7	1009.7
25°	1593.4	1307.1	1171.2	1101.5	1050.1	1017.0	995.0	980.3	969.3	969.3
27.5°	1619.1	1277.7	1130.8	1057.4	1009.7	976.6	961.9	947.3	939.9	939.9
30°	1633.8	1241.0	1079.4	1009.7	961.9	943.6	936.2	921.6	910.5	906.9
32.5°	1641.2	1185.9	1028.0	961.9	928.9	921.6	921.6	903.2	888.5	884.8
35°	1633.8	1127.2	976.6	921.6	910.5	914.2	906.9	884.8	866.5	859.1
37.5°	1622.8	1057.4	921.6	892.2	903.2	910.5	888.5	859.1	829.8	822.4
40°	1615.5	995.0	877.5	862.8	895.9	899.5	859.1	804.1	782.0	774.7
42.5°	1652.2	932.6	837.1	840.8	877.5	881.2	807.7	782.0	767.3	763.7
45°	1777.0	877.5	804.1	826.1	855.5	840.8	782.0	778.4	767.3	763.7
47.5°	1872.5	837.1	789.4	815.1	837.1	785.7	778.4	774.7	763.7	760.0
50°	1905.5	811.4	785.7	807.7	811.4	760.0	771.0	771.0	760.0	756.3
52.5°	1909.2	796.7	793.1	804.1	771.0	749.0	763.7	763.7	752.7	749.0
55°	1923.9	789.4	796.7	804.1	727.0	734.3	749.0	752.7	741.6	738.0
57.5°	1894.5	778.4	804.1	807.7	708.6	719.6	734.3	734.3	734.3	734.3
60°	1780.7	756.3	800.4	800.4	693.9	701.3	715.9	723.3	727.0	727.0
62.5°	1571.4	712.3	778.4	778.4	679.2	686.6	704.9	704.9	715.9	715.9
65°	1307.1	649.9	734.3	730.6	664.5	671.9	693.9	686.6	704.9	708.6
67.5°	1090.4	572.8	668.2	675.6	649.9	668.2	682.9	657.2	693.9	693.9
70°	870.2	481.0	580.1	613.1	624.2	671.9	660.9	620.5	668.2	657.2
72.5°	675.6	407.5	477.3	536.0	594.8	668.2	613.1	569.1	598.5	580.1
75°	492.0	337.8	392.9	444.3	554.4	657.2	565.4	499.3	499.3	492.0
77.5°	345.1	275.4	315.8	352.5	514.0	627.8	506.7	429.6	411.2	407.5
80°	235.0	216.6	249.7	271.7	455.3	569.1	436.9	356.1	323.1	315.8
82.5°	154.2	154.2	168.9	183.6	352.5	473.6	341.5	264.4	341.5	326.8
85°	88.1	91.8	91.8	106.5	194.6	334.1	242.3	264.4	157.9	146.9
87.5°	29.4	29.4	29.4	29.4	40.4	135.8	102.8	95.5	36.7	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)