

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: P572645

Luminaire Tested: **ARCH-S-PA2-100-727-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572645
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-PA2-100-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11672 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

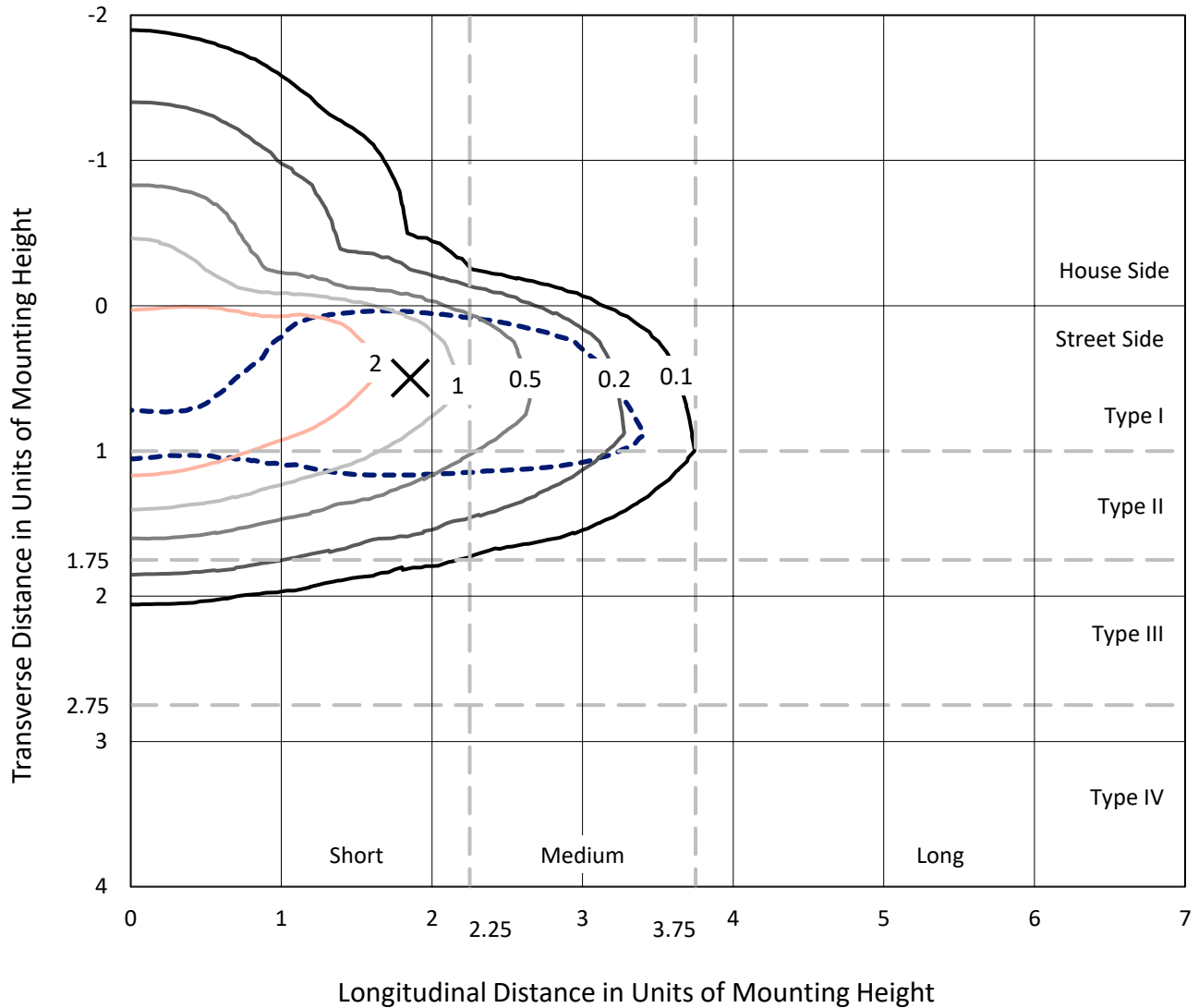
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

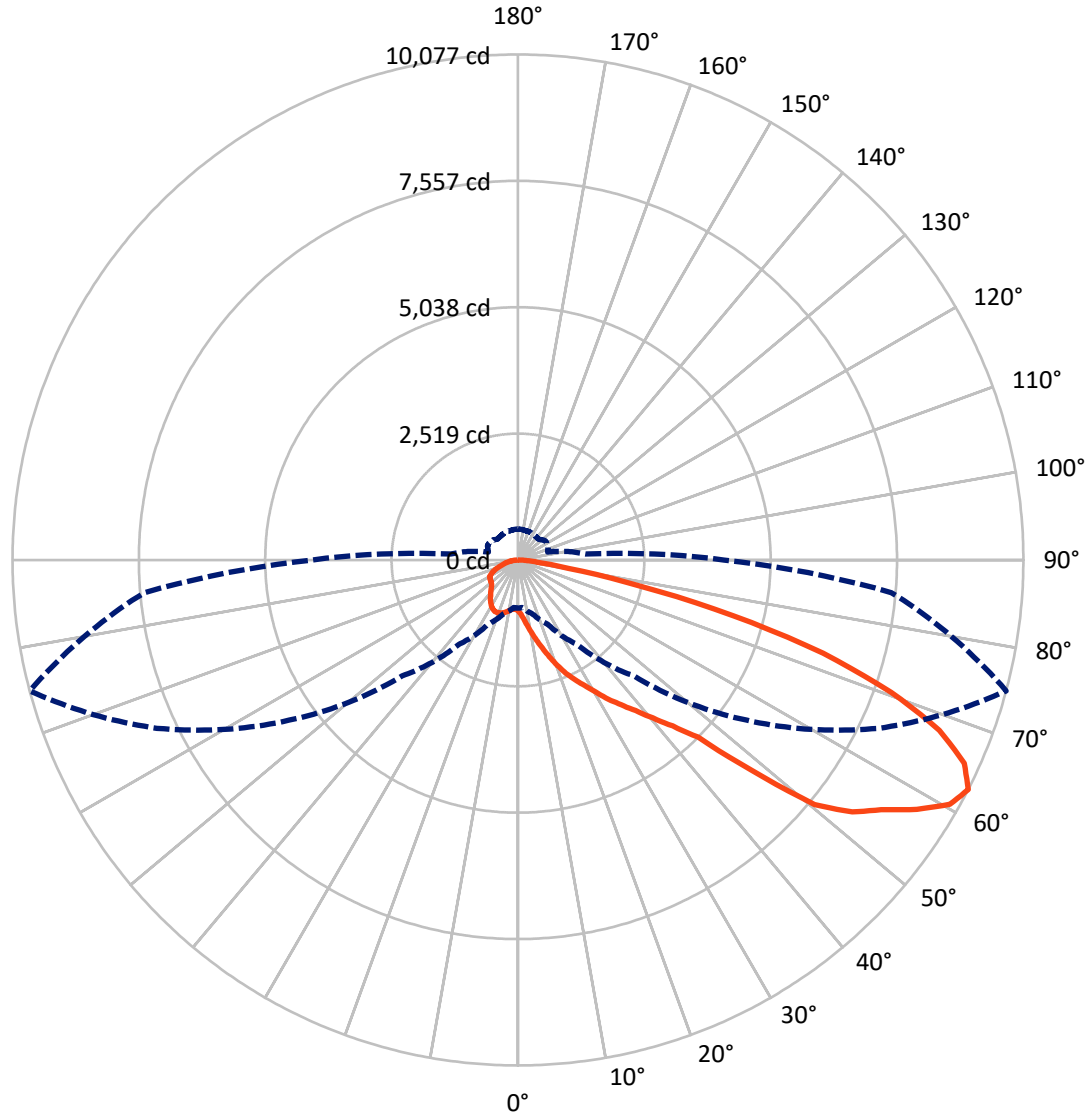
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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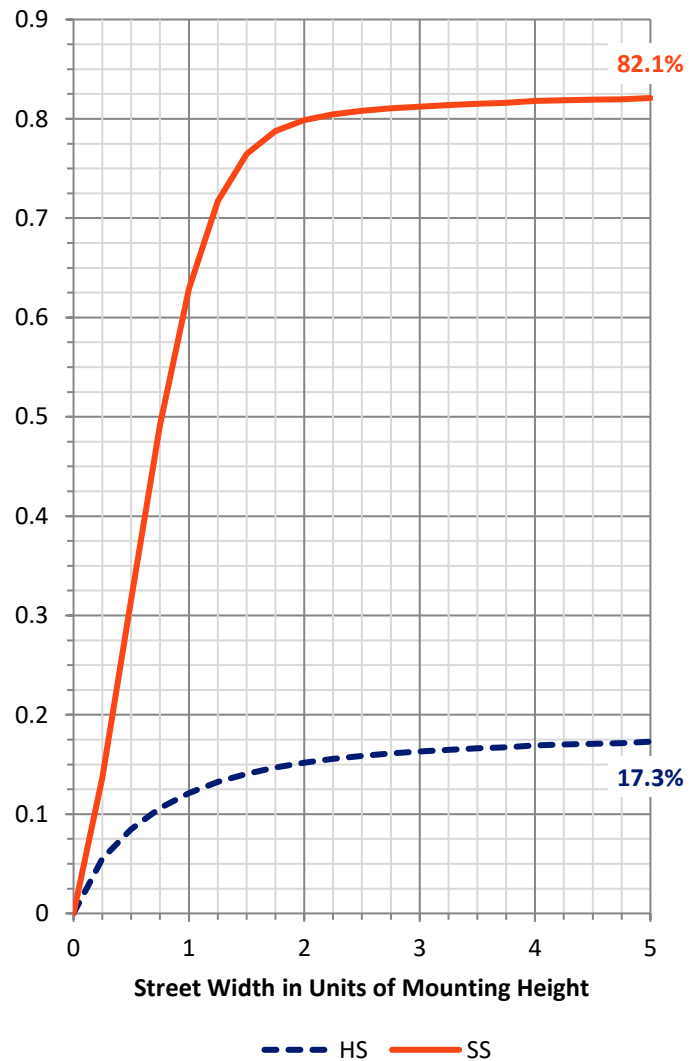
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.6	0.0	2058.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9613.4	0.0	9613.4
	% Fixture	82.4	0.0	82.4
Total	Lumens	11672.0	0.0	11672.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.0
10°-20°	483.0	4.1
20°-30°	955.5	8.2
30°-40°	1592.7	13.6
40°-50°	2350.3	20.1
50°-60°	2825.2	24.2
60°-70°	2195.8	18.8
70°-80°	971.4	8.3
80°-90°	175.8	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°	11672.0	100.0
0°-180°	11672.0	100.0

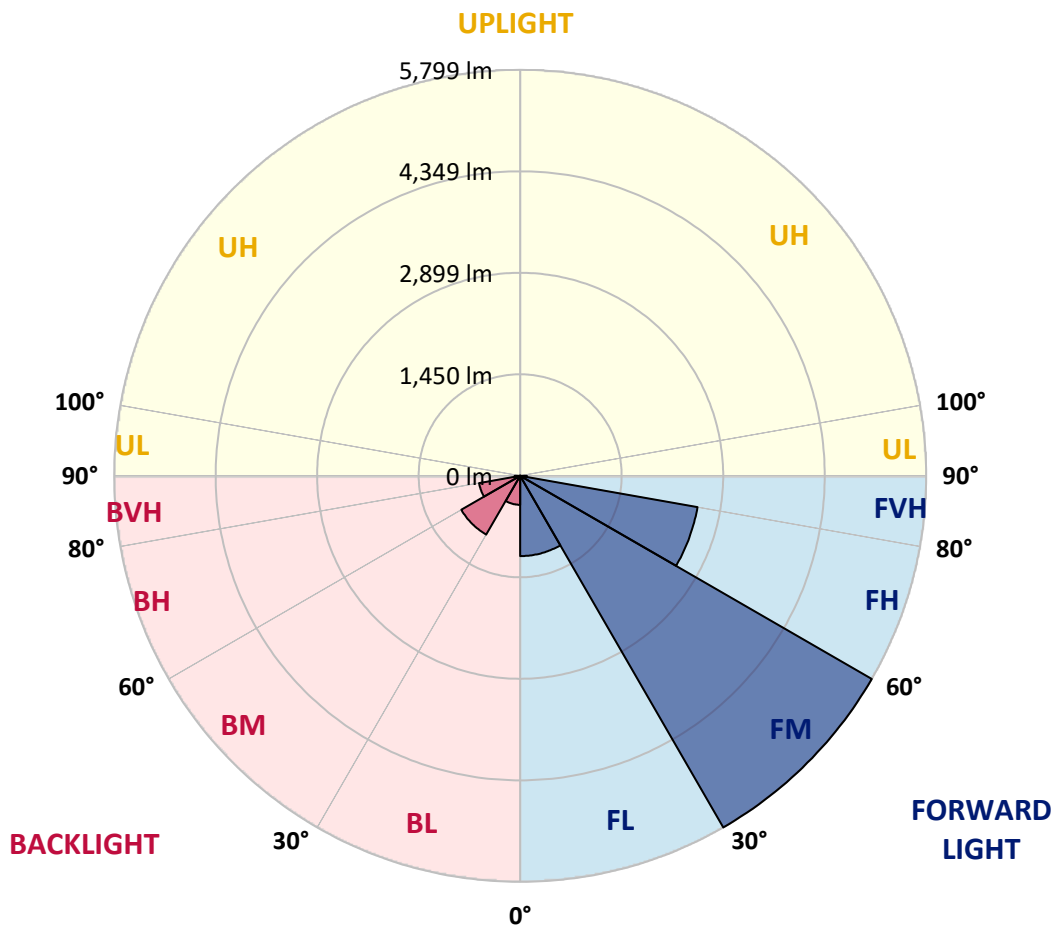


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.5	9.8			
FM (30°-60°)	5798.7	49.7			
FH (60°-80°)	2571.6	22.0			G2/5000
FVH (80°-90°)	96.7	0.8			G1/100
BL (0°-30°)	414.2	3.5	B1/500		
BM (30°-60°)	969.6	8.3	B1/1000		
BH (60°-80°)	595.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	79.2	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°	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4
2.5°	1300.9	1263.1	1263.1	1222.2	1225.3	1190.7	1152.9	1115.1	1074.1	1042.6	1026.9
5°	1700.9	1672.6	1663.1	1615.9	1540.3	1455.2	1363.9	1269.4	1171.8	1096.2	1058.4
7.5°	2075.8	2053.7	2041.1	1987.6	1883.6	1792.3	1647.4	1474.1	1307.2	1165.5	1108.8
10°	2353.0	2337.2	2312.0	2286.8	2211.2	2132.5	1952.9	1707.2	1461.5	1250.5	1165.5
12.5°	2554.6	2532.5	2532.5	2529.4	2479.0	2406.5	2239.6	1975.0	1641.1	1345.0	1228.5
15°	2690.0	2686.8	2696.3	2715.2	2702.6	2655.3	2488.4	2220.7	1823.8	1452.1	1300.9
17.5°	2790.8	2778.2	2797.1	2847.5	2885.3	2866.4	2727.8	2456.9	2025.4	1568.6	1379.6
20°	2901.0	2875.8	2901.0	2964.0	3011.3	3039.6	2973.5	2683.7	2242.7	1694.6	1455.2
22.5°	3112.1	3108.9	3096.3	3115.2	3146.7	3197.1	3159.3	2913.6	2453.8	1820.6	1543.4
25°	3490.1	3455.4	3420.8	3379.8	3345.2	3360.9	3329.4	3127.8	2645.9	1959.2	1619.0
27.5°	3912.1	3874.3	3811.4	3710.6	3616.1	3559.4	3493.2	3313.7	2831.7	2085.2	1691.5
30°	4299.6	4287.0	4192.5	4082.2	3918.4	3814.5	3688.5	3527.9	3055.4	2223.8	1767.1
32.5°	4661.8	4636.6	4542.1	4425.6	4233.4	4116.9	3943.6	3761.0	3310.5	2393.9	1845.8
35°	4973.7	4948.5	4838.2	4690.2	4523.2	4422.4	4224.0	3968.8	3543.6	2542.0	1912.0
37.5°	5209.9	5181.5	5077.6	4932.7	4784.7	4737.4	4567.3	4233.4	3808.2	2727.8	1993.9
40°	5342.2	5307.5	5238.2	5137.4	5014.6	4992.6	4920.1	4561.0	4142.1	2954.6	2113.6
42.5°	5357.9	5326.4	5288.6	5279.2	5269.7	5288.6	5323.3	4932.7	4523.2	3257.0	2290.0
45°	5219.3	5200.4	5203.6	5310.7	5458.7	5632.0	5839.9	5480.8	5036.7	3833.4	2686.8
47.5°	4923.3	4913.8	4983.1	5162.6	5493.4	5887.1	6476.1	6419.4	6252.5	4762.6	3197.1
50°	4444.5	4428.7	4576.8	4860.3	5332.7	5972.2	6904.5	7525.1	7663.7	5483.9	3531.0
52.5°	3757.8	3776.7	4006.6	4394.1	4964.2	5880.8	7080.9	7978.6	8344.0	6016.3	3786.2
55°	3055.4	3027.0	3234.9	3713.7	4419.3	5546.9	7115.6	8240.1	8785.0	6507.6	4035.0
57.5°	2227.0	2296.3	2516.8	2951.4	3716.9	4942.2	6914.0	8419.6	9377.2	6999.0	4264.9
60°	1508.8	1508.8	1704.1	2138.8	2872.7	4208.2	6375.4	8353.5	9893.8	7383.3	4315.3
62.5°	960.7	951.3	1108.8	1417.4	2056.9	3269.6	5569.0	7937.7	10076.5	7474.7	4104.3
65°	607.9	620.5	677.2	866.2	1316.6	2321.5	4469.7	7109.3	9777.2	7263.6	3735.8
67.5°	488.2	491.4	519.7	598.5	809.5	1489.9	3313.7	5965.9	9062.2	6731.3	3304.2
70°	431.5	437.8	444.1	472.5	554.4	941.8	2176.6	4803.6	7890.4	5805.2	2841.2
72.5°	393.7	400.0	406.3	412.6	456.7	614.2	1285.1	3641.3	6365.9	4460.2	2167.1
75°	362.2	368.5	368.5	371.7	396.9	456.7	705.6	2510.5	4431.9	2775.0	1351.3
77.5°	324.4	327.6	327.6	333.9	359.1	359.1	437.8	1552.9	2460.1	1256.8	683.5
80°	274.0	280.3	280.3	289.8	315.0	277.2	292.9	793.8	1020.6	516.6	305.5
82.5°	201.6	214.2	220.5	236.2	252.0	211.0	211.0	400.0	431.5	229.9	163.8
85°	110.2	113.4	163.8	176.4	185.8	126.0	141.7	198.4	214.2	100.8	81.9
87.5°	31.5	34.6	78.7	97.6	88.2	53.5	59.8	75.6	75.6	28.3	22.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4
2.5°	1014.3	989.1	967.0	951.3	935.5	926.1	922.9	916.6	916.6	919.8
5°	1026.9	982.8	948.1	929.2	916.6	910.3	907.2	907.2	910.3	910.3
7.5°	1058.4	992.2	960.7	945.0	932.4	926.1	926.1	922.9	926.1	926.1
10°	1102.5	1020.6	985.9	967.0	957.6	948.1	945.0	941.8	941.8	941.8
12.5°	1149.7	1052.1	1014.3	992.2	976.5	963.9	957.6	951.3	948.1	948.1
15°	1193.8	1083.6	1033.2	1008.0	985.9	967.0	954.4	945.0	941.8	941.8
17.5°	1241.1	1105.6	1045.8	1011.1	982.8	957.6	941.8	929.2	922.9	922.9
20°	1291.4	1121.4	1045.8	1001.7	963.9	938.7	919.8	907.2	894.6	894.6
22.5°	1332.4	1127.7	1033.2	979.6	941.8	910.3	891.4	875.7	866.2	866.2
25°	1367.0	1121.4	1004.8	945.0	900.9	872.5	853.6	841.0	831.6	831.6
27.5°	1389.1	1096.2	970.2	907.2	866.2	837.9	825.3	812.7	806.4	806.4
30°	1401.7	1064.7	926.1	866.2	825.3	809.5	803.2	790.6	781.2	778.0
32.5°	1408.0	1017.4	882.0	825.3	796.9	790.6	790.6	774.9	762.3	759.1
35°	1401.7	967.0	837.9	790.6	781.2	784.3	778.0	759.1	743.4	737.1
37.5°	1392.2	907.2	790.6	765.4	774.9	781.2	762.3	737.1	711.9	705.6
40°	1385.9	853.6	752.8	740.2	768.6	771.7	737.1	689.8	670.9	664.6
42.5°	1417.4	800.1	718.2	721.3	752.8	756.0	693.0	670.9	658.3	655.2
45°	1524.5	752.8	689.8	708.7	733.9	721.3	670.9	667.8	658.3	655.2
47.5°	1606.4	718.2	677.2	699.3	718.2	674.1	667.8	664.6	655.2	652.0
50°	1634.8	696.1	674.1	693.0	696.1	652.0	661.5	661.5	652.0	648.9
52.5°	1637.9	683.5	680.4	689.8	661.5	642.6	655.2	655.2	645.7	642.6
55°	1650.5	677.2	683.5	689.8	623.7	630.0	642.6	645.7	636.3	633.1
57.5°	1625.3	667.8	689.8	693.0	607.9	617.4	630.0	630.0	630.0	630.0
60°	1527.7	648.9	686.7	686.7	595.3	601.6	614.2	620.5	623.7	623.7
62.5°	1348.1	611.1	667.8	667.8	582.7	589.0	604.8	604.8	614.2	614.2
65°	1121.4	557.5	630.0	626.8	570.1	576.4	595.3	589.0	604.8	607.9
67.5°	935.5	491.4	573.3	579.6	557.5	573.3	585.9	563.8	595.3	595.3
70°	746.5	412.6	497.7	526.0	535.5	576.4	567.0	532.3	573.3	563.8
72.5°	579.6	349.6	409.5	459.9	510.3	573.3	526.0	488.2	513.4	497.7
75°	422.1	289.8	337.0	381.1	475.6	563.8	485.1	428.4	428.4	422.1
77.5°	296.1	236.2	270.9	302.4	441.0	538.6	434.7	368.5	352.8	349.6
80°	201.6	185.8	214.2	233.1	390.6	488.2	374.8	305.5	277.2	270.9
82.5°	132.3	132.3	144.9	157.5	302.4	406.3	292.9	226.8	292.9	280.3
85°	75.6	78.7	78.7	91.3	166.9	286.6	207.9	226.8	135.4	126.0
87.5°	25.2	25.2	25.2	25.2	34.6	116.5	88.2	81.9	31.5	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)