

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: P349022

Luminaire Tested: **ARCH-N-PA1-60-830-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4342 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

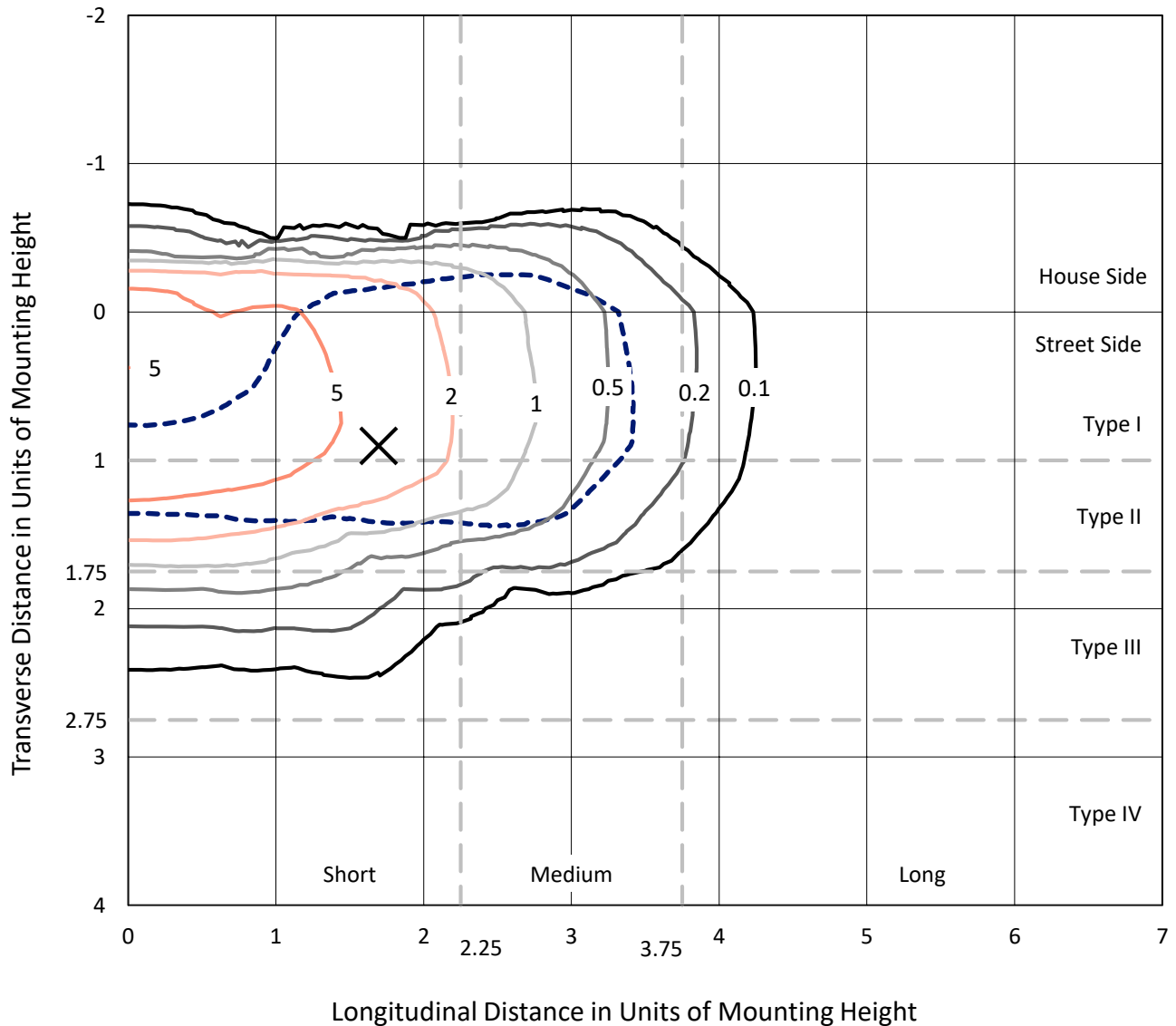
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

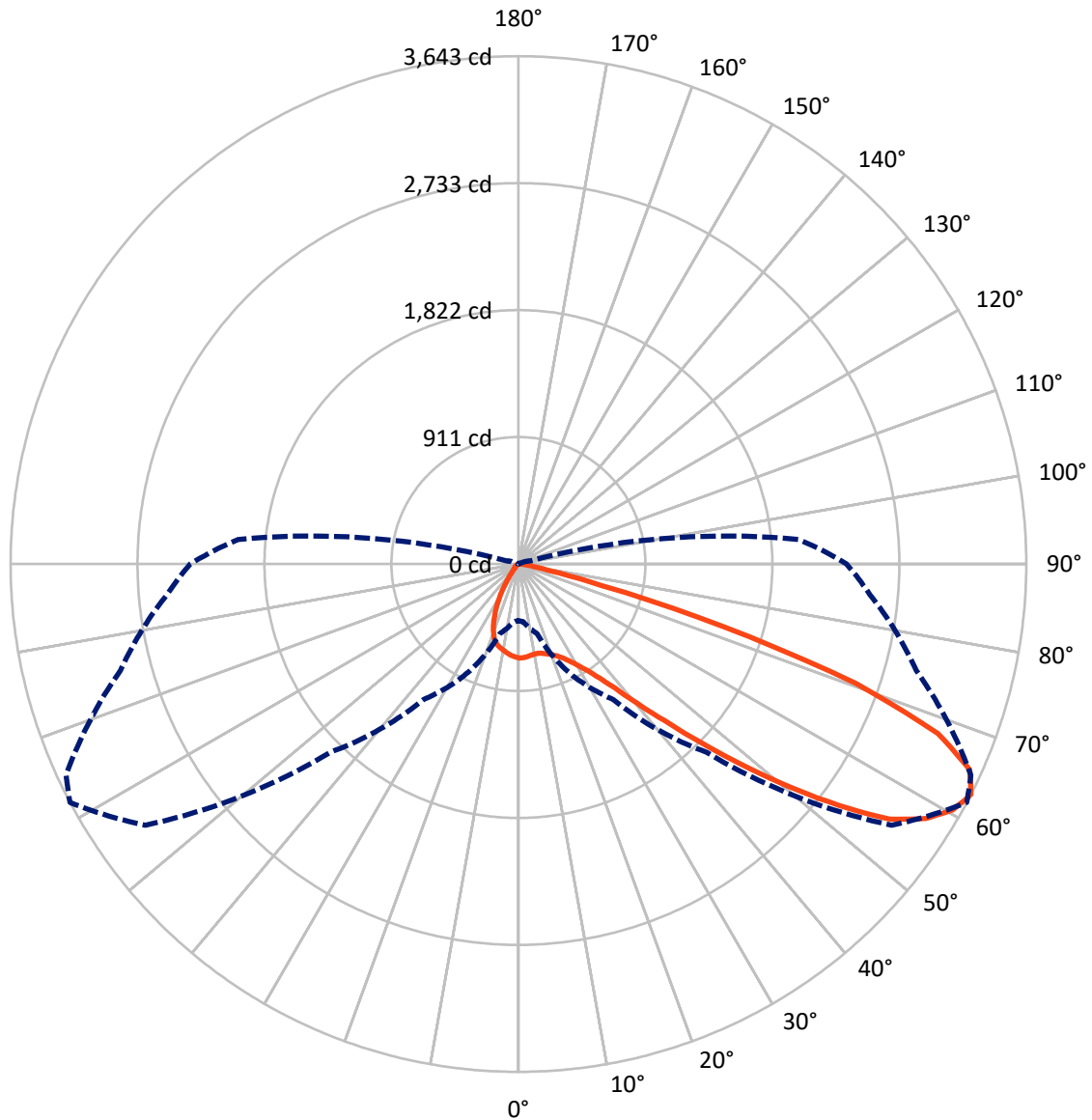
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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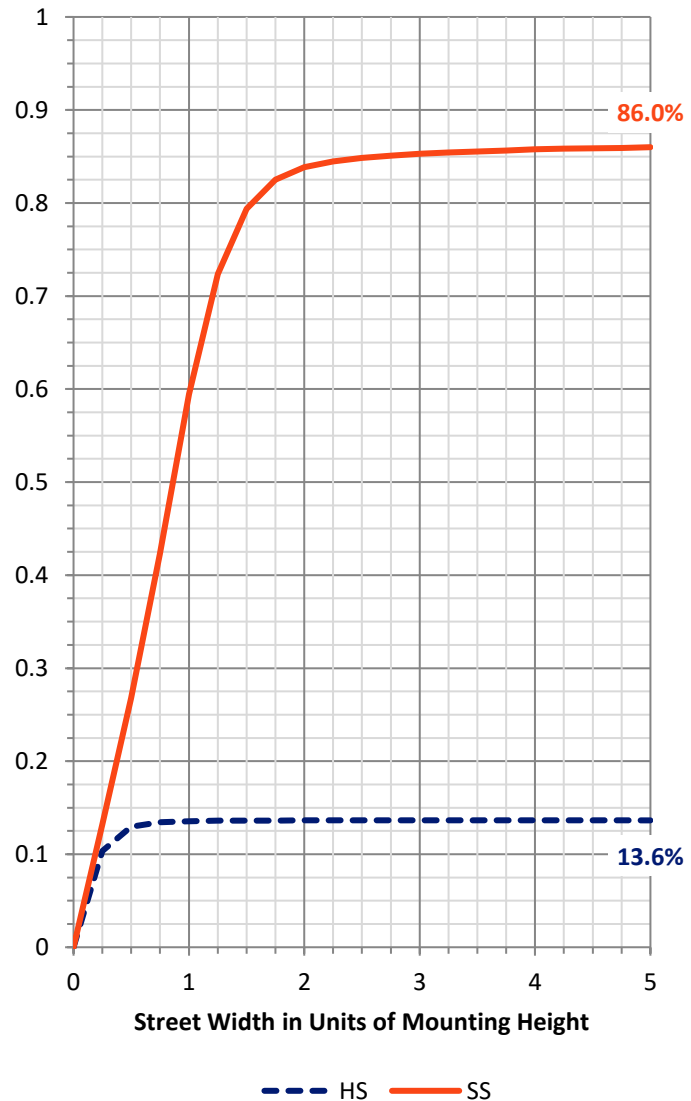
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.5	0.0	599.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	3742.5	0.0	3742.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	4342.0	0.0	4342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.4
10°-20°	154.2	3.6
20°-30°	230.3	5.3
30°-40°	438.7	10.1
40°-50°	914.9	21.1
50°-60°	1215.4	28.0
60°-70°	947.5	21.8
70°-80°	358.1	8.2
80°-90°	21.4	0.5
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°	4342.0	100.0
0°-180°	4342.0	100.0



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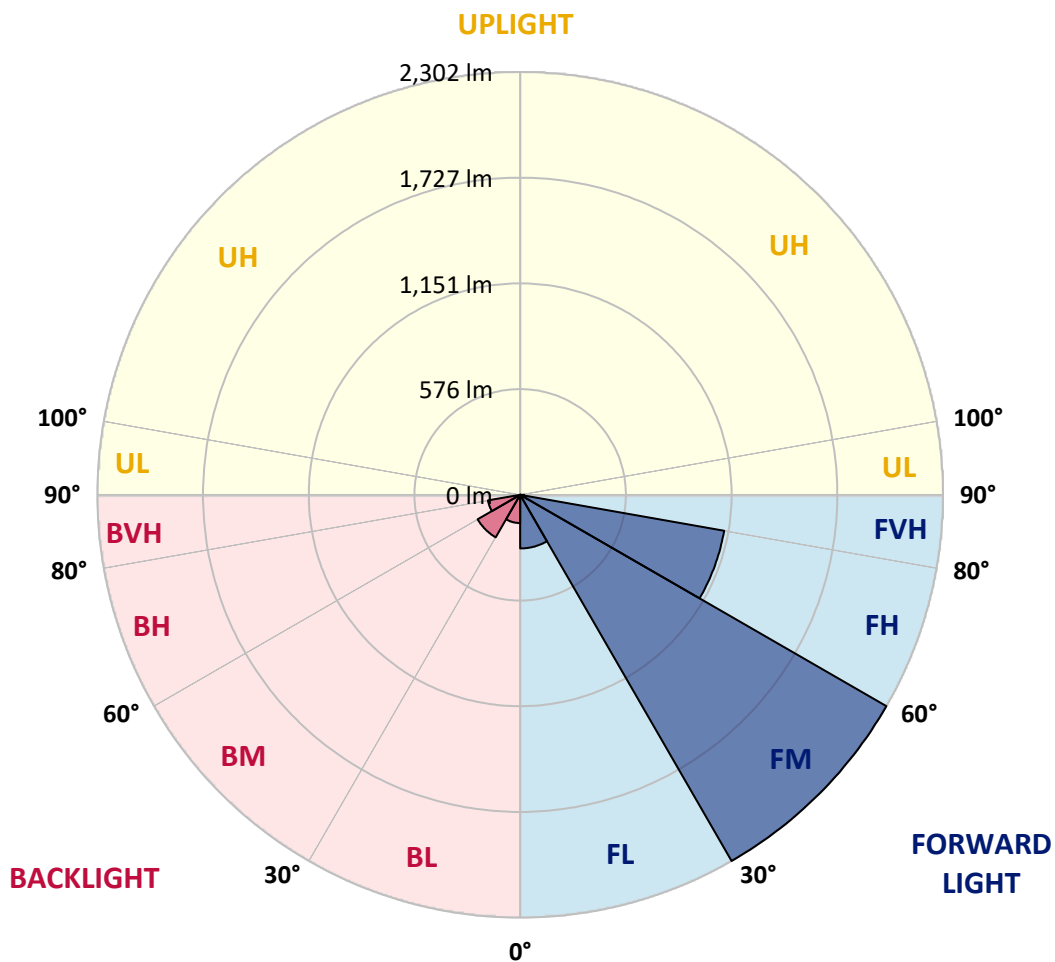
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.2	6.7			
FM	(30°-60°)	2302.1	53.0			
FH	(60°-80°)	1127.8	26.0			G1/1800
FVH	(80°-90°)	20.4	0.5			G1/100
BL	(0°-30°)	153.8	3.5	B1/500		
BM	(30°-60°)	266.9	6.1	B1/1000		
BH	(60°-80°)	177.8	4.1	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6
2.5°	672.3	671.2	674.0	674.0	673.4	674.6	673.4	672.9	672.3	671.2	670.0
5°	654.7	654.7	658.7	660.4	662.1	665.5	666.6	667.8	667.2	668.3	668.9
7.5°	634.3	635.4	640.0	642.2	645.1	651.9	655.8	660.4	660.9	664.9	667.2
10°	617.3	618.4	622.9	625.8	629.7	638.8	647.3	655.3	656.4	663.8	665.5
12.5°	605.9	607.1	611.6	615.6	624.1	635.4	647.3	656.4	659.2	668.3	668.3
15°	601.4	602.5	608.2	615.0	626.3	641.1	655.8	665.5	671.2	678.5	675.1
17.5°	599.7	601.9	611.6	621.8	634.3	650.2	668.3	678.5	684.2	692.2	684.8
20°	604.8	607.6	620.1	634.3	647.3	663.8	683.6	695.0	700.7	705.8	691.6
22.5°	622.9	627.5	638.3	654.1	664.4	684.2	704.1	717.1	723.4	722.8	704.1
25°	666.6	672.3	677.4	685.9	690.4	714.3	735.3	748.3	752.9	751.2	729.6
27.5°	769.9	777.3	759.1	740.4	730.2	752.3	775.6	789.2	793.1	789.7	756.8
30°	944.0	944.6	903.2	844.2	800.5	798.2	826.6	844.8	844.8	838.0	795.4
32.5°	1197.6	1179.5	1127.3	1022.9	924.2	872.6	894.1	911.7	911.7	903.2	854.4
35°	1516.5	1502.9	1416.6	1291.3	1115.4	991.7	987.2	1004.2	1004.8	1002.5	946.9
37.5°	1841.0	1807.5	1735.5	1585.1	1378.6	1175.0	1120.5	1132.4	1140.9	1139.8	1070.6
40°	2142.8	2109.4	2048.7	1904.0	1702.0	1445.0	1314.5	1314.5	1315.1	1309.4	1226.0
42.5°	2380.0	2364.7	2319.3	2218.9	2062.8	1869.9	1576.1	1532.9	1523.9	1518.2	1408.7
45°	2533.7	2517.8	2493.4	2472.5	2422.0	2352.7	1927.2	1814.3	1799.6	1744.0	1610.7
47.5°	2542.2	2517.8	2534.3	2613.7	2727.8	2763.5	2360.7	2142.3	2103.1	2002.7	1813.2
50°	2352.7	2355.0	2419.1	2612.0	2920.1	3123.8	2820.2	2503.1	2441.3	2240.4	1991.9
52.5°	2004.4	2027.1	2126.4	2423.1	2929.2	3354.1	3220.2	2875.3	2752.7	2453.7	2117.9
55°	1569.3	1589.7	1751.9	2073.1	2708.5	3387.0	3511.3	3231.6	3069.3	2602.4	2230.8
57.5°	1109.7	1148.3	1349.7	1644.7	2287.5	3135.7	3590.7	3444.9	3287.7	2747.0	2336.9
60°	674.6	693.9	903.2	1246.4	1724.1	2609.8	3497.6	3581.0	3454.0	2872.4	2436.1
62.5°	405.6	417.0	517.4	858.4	1186.3	1910.8	3267.3	3643.4	3581.0	2955.8	2531.5
65°	240.0	247.4	294.4	518.5	790.3	1172.1	2769.7	3557.8	3608.3	3027.9	2587.1
67.5°	173.0	175.3	192.3	279.1	530.5	628.0	1926.1	3245.7	3434.7	3051.7	2554.2
70°	149.2	152.0	168.5	196.3	375.6	370.5	1002.5	2568.9	2911.6	2927.5	2415.2
72.5°	112.9	118.0	145.2	184.4	269.5	263.2	377.8	1531.8	1976.6	2403.2	2082.1
75°	76.6	79.4	107.8	156.6	210.5	196.3	198.0	615.0	966.7	1506.8	1430.8
77.5°	48.2	50.5	65.8	112.3	180.4	138.4	140.1	218.4	348.9	638.8	613.3
80°	32.9	34.0	39.7	72.6	122.0	120.3	90.2	114.0	129.9	196.9	132.2
82.5°	19.9	19.9	26.1	43.1	73.8	95.3	56.7	63.0	69.2	73.2	30.1
85°	6.8	7.4	15.9	26.7	45.4	47.7	32.3	37.4	39.1	42.6	14.2
87.5°	2.8	2.3	8.5	14.8	19.3	22.1	18.7	17.0	18.7	25.0	6.2
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°	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6
2.5°	670.6	668.3	668.3	667.8	664.4	662.7	660.9	656.4	659.2	655.8	653.6
5°	667.2	665.5	662.7	659.8	651.9	645.1	642.2	636.6	636.0	631.4	629.2
7.5°	666.6	662.7	658.1	648.5	636.6	625.8	616.1	606.5	602.5	597.4	594.6
10°	663.8	658.7	650.2	634.9	617.3	600.2	578.7	552.0	532.2	520.8	519.1
12.5°	664.4	658.7	645.6	622.9	599.7	562.2	504.4	443.7	393.7	372.7	369.3
15°	668.9	662.7	642.8	612.2	572.4	490.2	384.1	291.0	226.4	203.1	198.0
17.5°	674.6	663.8	636.6	596.8	520.2	380.1	241.7	152.6	116.3	103.3	101.0
20°	678.0	663.2	626.3	573.6	440.8	254.2	131.6	89.6	78.9	76.0	74.9
22.5°	686.5	664.9	617.8	537.3	341.0	153.2	83.4	69.8	63.5	60.1	59.6
25°	704.1	676.3	618.4	490.2	238.8	92.5	67.5	56.7	51.1	47.7	46.5
27.5°	729.6	696.7	629.2	431.7	147.5	69.8	56.2	46.0	39.7	36.9	36.3
30°	761.9	721.7	641.7	355.7	91.9	58.4	45.4	35.7	31.2	29.5	28.9
32.5°	813.0	764.8	652.4	266.1	63.5	48.2	35.7	28.4	25.5	23.8	23.8
35°	897.5	839.1	670.0	178.1	50.5	38.6	28.9	23.3	21.0	19.9	19.9
37.5°	1016.7	945.2	678.5	110.6	41.4	30.1	23.3	19.3	17.6	16.5	16.5
40°	1161.9	1074.0	666.6	68.6	34.6	24.4	19.3	16.5	14.8	14.2	14.2
42.5°	1329.3	1222.0	629.2	48.8	28.9	19.9	16.5	14.2	13.0	12.5	12.5
45°	1516.5	1384.3	561.7	40.8	24.4	17.0	14.2	11.9	11.3	10.8	10.8
47.5°	1703.1	1548.8	474.3	35.2	20.4	14.2	11.9	10.2	9.6	9.1	9.1
50°	1866.0	1692.9	381.8	30.6	17.0	12.5	10.2	8.5	7.9	7.4	7.4
52.5°	1959.0	1778.6	295.6	25.5	14.8	10.8	7.9	6.8	6.2	5.7	5.7
55°	2059.4	1850.1	220.7	21.6	11.9	9.1	6.2	5.1	4.5	4.0	4.0
57.5°	2153.0	1914.2	164.0	17.6	10.2	6.8	5.1	4.0	3.4	2.8	2.8
60°	2243.8	1968.7	121.4	14.2	8.5	5.7	4.0	2.8	2.3	1.7	1.7
62.5°	2354.5	2018.6	89.1	11.3	7.4	4.0	2.8	1.7	1.1	0.6	0.6
65°	2436.7	2044.1	66.9	8.5	6.2	2.8	1.7	1.1	0.0	0.0	0.0
67.5°	2436.1	1994.8	48.8	6.2	4.5	2.3	1.1	0.0	0.0	0.0	0.0
70°	2322.1	1845.0	34.0	5.1	3.4	1.7	0.6	0.0	0.0	0.0	0.0
72.5°	1991.4	1459.2	22.1	3.4	2.8	1.1	0.6	0.0	0.0	0.0	0.0
75°	1344.0	740.9	13.0	2.8	2.3	1.1	0.6	0.0	0.0	0.0	0.0
77.5°	574.7	291.0	6.8	1.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0
80°	120.3	70.3	2.8	1.1	1.1	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.4	10.2	1.1	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.8	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.1	0.6	0.6	0.0	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)