

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: P348987

Luminaire Tested: **ARCH-N-PA1-60-730-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348987
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-PA1-60-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4976 lumens
Efficiency: N/A
Efficacy: 80.3 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

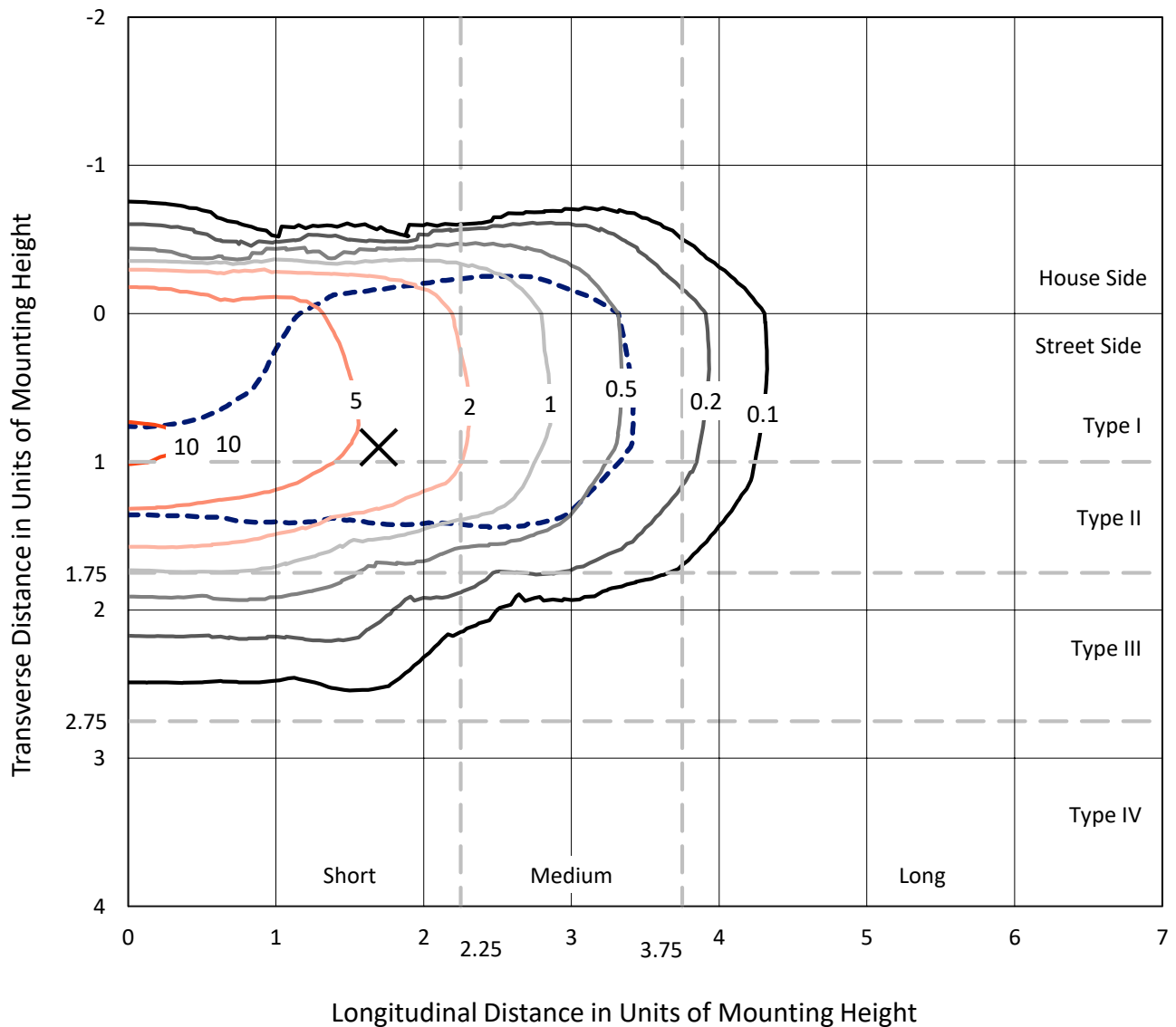
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

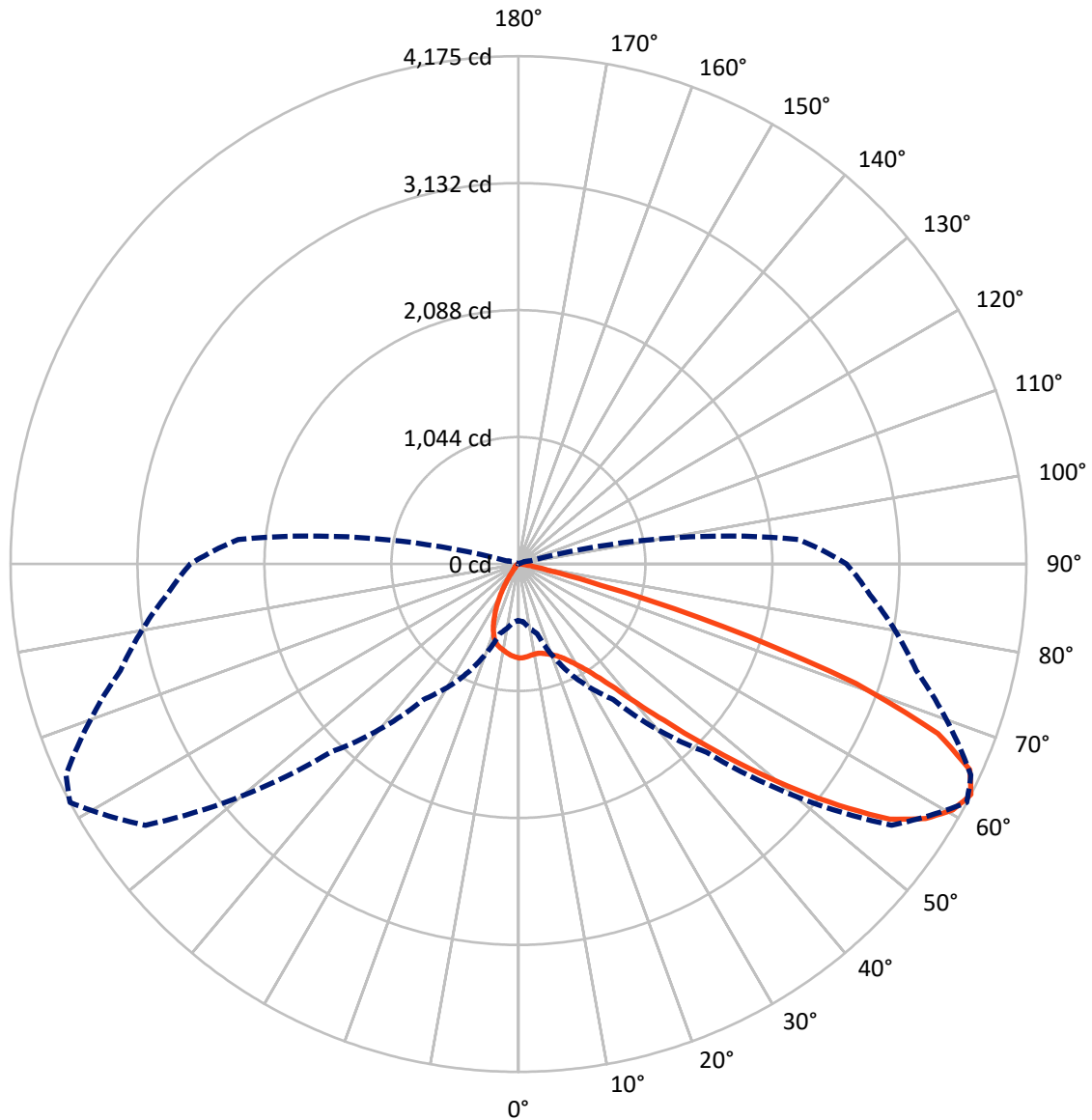
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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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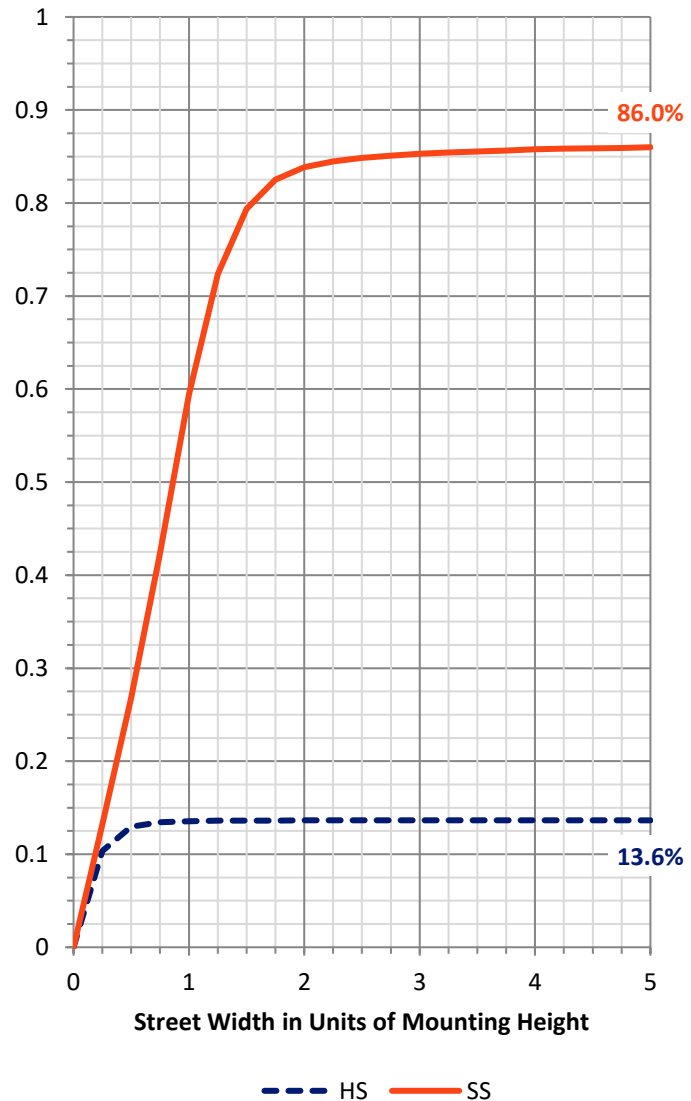
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.1	0.0	687.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	4289.0	0.0	4289.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	4976.0	0.0	4976.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.4
10°-20°	176.8	3.6
20°-30°	263.9	5.3
30°-40°	502.8	10.1
40°-50°	1048.4	21.1
50°-60°	1392.9	28.0
60°-70°	1085.9	21.8
70°-80°	410.4	8.2
80°-90°	24.6	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°	4976.0	100.0
0°-180°	4976.0	100.0



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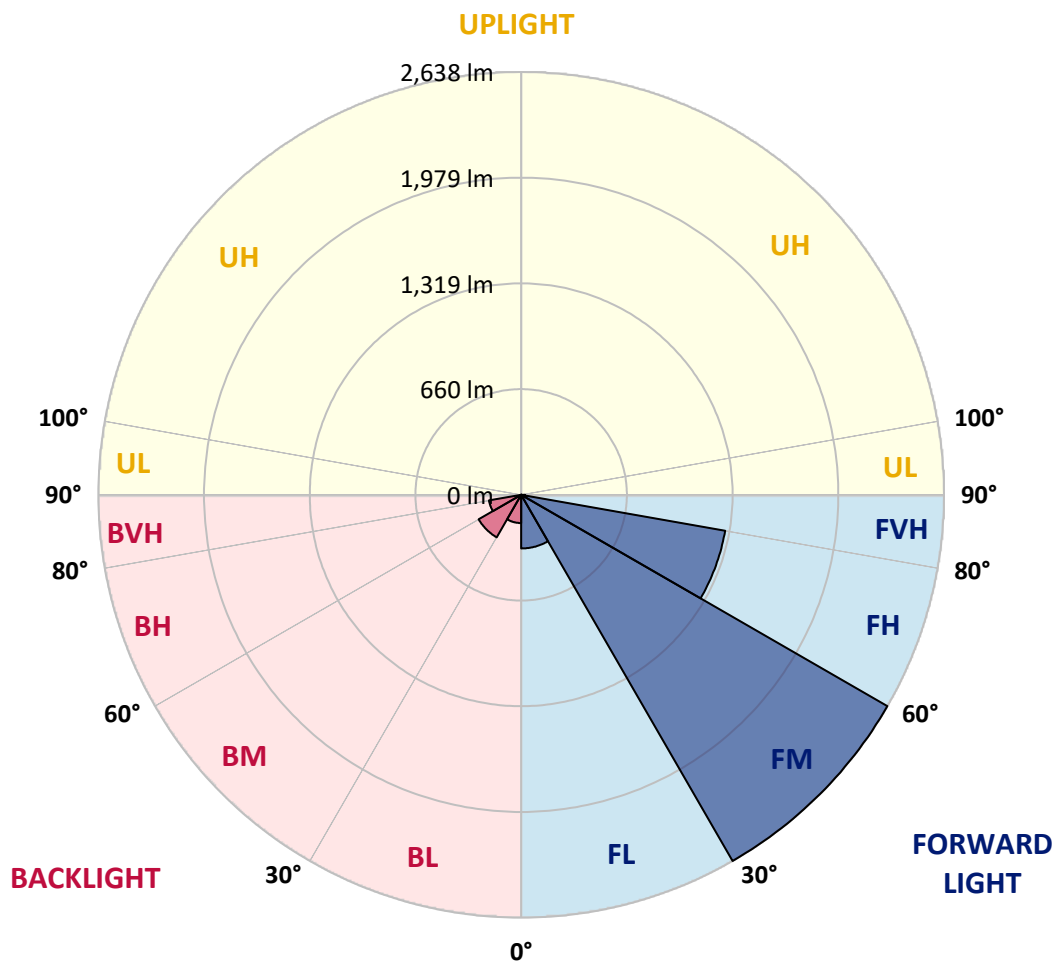
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.8	6.7			
FM (30°-60°)	2638.3	53.0			
FH (60°-80°)	1292.4	26.0			G1/1800
FVH (80°-90°)	23.4	0.5			G1/100
BL (0°-30°)	176.2	3.5	B1/500		
BM (30°-60°)	305.9	6.1	B1/1000		
BH (60°-80°)	203.8	4.1	B1/500		G1/500
BVH (80°-90°)	1.2	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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	770.5	769.2	772.4	772.4	771.8	773.1	771.8	771.1	770.5	769.2	767.9
5°	750.3	750.3	754.9	756.8	758.8	762.7	764.0	765.3	764.6	765.9	766.6
7.5°	726.9	728.2	733.4	736.0	739.3	747.1	751.6	756.8	757.5	762.0	764.6
10°	707.4	708.7	713.9	717.1	721.7	732.1	741.9	751.0	752.3	760.7	762.7
12.5°	694.4	695.7	700.9	705.4	715.2	728.2	741.9	752.3	755.5	765.9	765.9
15°	689.2	690.5	697.0	704.8	717.8	734.7	751.6	762.7	769.2	777.6	773.7
17.5°	687.2	689.8	700.9	712.6	726.9	745.1	765.9	777.6	784.1	793.2	784.8
20°	693.1	696.3	710.6	726.9	741.9	760.7	783.5	796.5	803.0	808.8	792.6
22.5°	713.9	719.1	731.4	749.7	761.4	784.1	806.9	821.8	829.0	828.3	806.9
25°	764.0	770.5	776.3	786.1	791.3	818.6	842.6	857.6	862.8	860.8	836.1
27.5°	882.3	890.7	869.9	848.5	836.8	862.1	888.8	904.4	908.9	905.0	867.3
30°	1081.9	1082.5	1035.1	967.5	917.4	914.8	947.3	968.1	968.1	960.3	911.5
32.5°	1372.5	1351.7	1291.9	1172.3	1059.1	1000.0	1024.7	1044.8	1044.8	1035.1	979.2
35°	1737.9	1722.3	1623.5	1479.8	1278.2	1136.5	1131.3	1150.8	1151.5	1148.9	1085.1
37.5°	2109.8	2071.5	1988.9	1816.6	1579.9	1346.5	1284.1	1297.8	1307.5	1306.2	1226.9
40°	2455.7	2417.4	2347.8	2182.0	1950.5	1656.0	1506.5	1506.5	1507.1	1500.6	1405.0
42.5°	2727.5	2709.9	2657.9	2542.8	2364.0	2143.0	1806.2	1756.8	1746.4	1739.9	1614.4
45°	2903.7	2885.5	2857.5	2833.5	2775.6	2696.3	2208.7	2079.3	2062.4	1998.6	1845.9
47.5°	2913.4	2885.5	2904.3	2995.4	3126.1	3167.0	2705.4	2455.1	2410.2	2295.1	2078.0
50°	2696.3	2698.9	2772.4	2993.4	3346.5	3579.9	3232.0	2868.6	2797.7	2567.6	2282.8
52.5°	2297.1	2323.1	2436.9	2776.9	3356.9	3843.9	3690.4	3295.1	3154.7	2812.0	2427.1
55°	1798.4	1821.8	2007.7	2375.7	3103.9	3881.6	4024.0	3703.4	3517.5	2982.4	2556.5
57.5°	1271.7	1316.0	1546.8	1884.9	2621.5	3593.5	4115.0	3947.9	3767.8	3148.2	2678.1
60°	773.1	795.2	1035.1	1428.4	1975.9	2990.8	4008.3	4103.9	3958.3	3291.8	2791.9
62.5°	464.9	477.9	593.0	983.7	1359.5	2189.8	3744.4	4175.4	4103.9	3387.4	2901.1
65°	275.0	283.5	337.4	594.3	905.7	1343.3	3174.2	4077.3	4135.1	3470.0	2964.8
67.5°	198.3	200.9	220.4	319.9	607.9	719.7	2207.4	3719.7	3936.2	3497.3	2927.1
70°	171.0	174.2	193.1	225.0	430.4	424.6	1148.9	2944.0	3336.7	3354.9	2767.8
72.5°	129.4	135.2	166.4	211.3	308.8	301.7	433.0	1755.5	2265.2	2754.2	2386.2
75°	87.8	91.0	123.5	179.4	241.2	225.0	226.9	704.8	1107.9	1726.9	1639.7
77.5°	55.3	57.9	75.4	128.7	206.8	158.6	160.6	250.3	399.9	732.1	702.8
80°	37.7	39.0	45.5	83.2	139.8	137.8	103.4	130.7	148.9	225.6	151.5
82.5°	22.8	22.8	29.9	49.4	84.5	109.2	65.0	72.2	79.3	83.9	34.5
85°	7.8	8.5	18.2	30.6	52.0	54.6	37.1	42.9	44.9	48.8	16.3
87.5°	3.3	2.6	9.8	16.9	22.1	25.4	21.5	19.5	21.5	28.6	7.2
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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	768.5	765.9	765.9	765.3	761.4	759.4	757.5	752.3	755.5	751.6	749.0
5°	764.6	762.7	759.4	756.2	747.1	739.3	736.0	729.5	728.8	723.6	721.0
7.5°	764.0	759.4	754.2	743.2	729.5	717.1	706.1	695.0	690.5	684.6	681.4
10°	760.7	754.9	745.1	727.5	707.4	687.9	663.2	632.6	609.9	596.9	594.9
12.5°	761.4	754.9	739.9	713.9	687.2	644.3	578.0	508.4	451.2	427.2	423.3
15°	766.6	759.4	736.7	701.5	656.0	561.8	440.2	333.5	259.4	232.8	226.9
17.5°	773.1	760.7	729.5	684.0	596.2	435.6	277.0	174.9	133.3	118.3	115.7
20°	777.0	760.1	717.8	657.3	505.2	291.3	150.8	102.7	90.4	87.1	85.8
22.5°	786.7	762.0	708.0	615.7	390.8	175.5	95.6	80.0	72.8	68.9	68.3
25°	806.9	775.0	708.7	561.8	273.7	106.0	77.4	65.0	58.5	54.6	53.3
27.5°	836.1	798.4	721.0	494.8	169.0	80.0	64.4	52.7	45.5	42.3	41.6
30°	873.2	827.0	735.4	407.7	105.3	67.0	52.0	41.0	35.8	33.8	33.2
32.5°	931.7	876.4	747.7	304.9	72.8	55.3	41.0	32.5	29.3	27.3	27.3
35°	1028.6	961.6	767.9	204.2	57.9	44.2	33.2	26.7	24.1	22.8	22.8
37.5°	1165.1	1083.2	777.6	126.8	47.5	34.5	26.7	22.1	20.2	18.9	18.9
40°	1331.6	1230.8	764.0	78.7	39.7	28.0	22.1	18.9	16.9	16.3	16.3
42.5°	1523.4	1400.5	721.0	55.9	33.2	22.8	18.9	16.3	15.0	14.3	14.3
45°	1737.9	1586.4	643.7	46.8	28.0	19.5	16.3	13.7	13.0	12.4	12.4
47.5°	1951.8	1775.0	543.5	40.3	23.4	16.3	13.7	11.7	11.1	10.4	10.4
50°	2138.4	1940.1	437.6	35.1	19.5	14.3	11.7	9.8	9.1	8.5	8.5
52.5°	2245.1	2038.3	338.7	29.3	16.9	12.4	9.1	7.8	7.2	6.5	6.5
55°	2360.1	2120.2	252.9	24.7	13.7	10.4	7.2	5.9	5.2	4.6	4.6
57.5°	2467.4	2193.7	187.9	20.2	11.7	7.8	5.9	4.6	3.9	3.3	3.3
60°	2571.5	2256.1	139.1	16.3	9.8	6.5	4.6	3.3	2.6	2.0	2.0
62.5°	2698.2	2313.3	102.1	13.0	8.5	4.6	3.3	2.0	1.3	0.7	0.7
65°	2792.5	2342.6	76.7	9.8	7.2	3.3	2.0	1.3	0.0	0.0	0.0
67.5°	2791.9	2286.0	55.9	7.2	5.2	2.6	1.3	0.0	0.0	0.0	0.0
70°	2661.2	2114.4	39.0	5.9	3.9	2.0	0.7	0.0	0.0	0.0	0.0
72.5°	2282.1	1672.3	25.4	3.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0
75°	1540.3	849.1	15.0	3.3	2.6	1.3	0.7	0.0	0.0	0.0	0.0
77.5°	658.6	333.5	7.8	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0
80°	137.8	80.6	3.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	23.4	11.7	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	0.7	0.7	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)