

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: P348761

Luminaire Tested: **ARCH-N-PA1-40-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

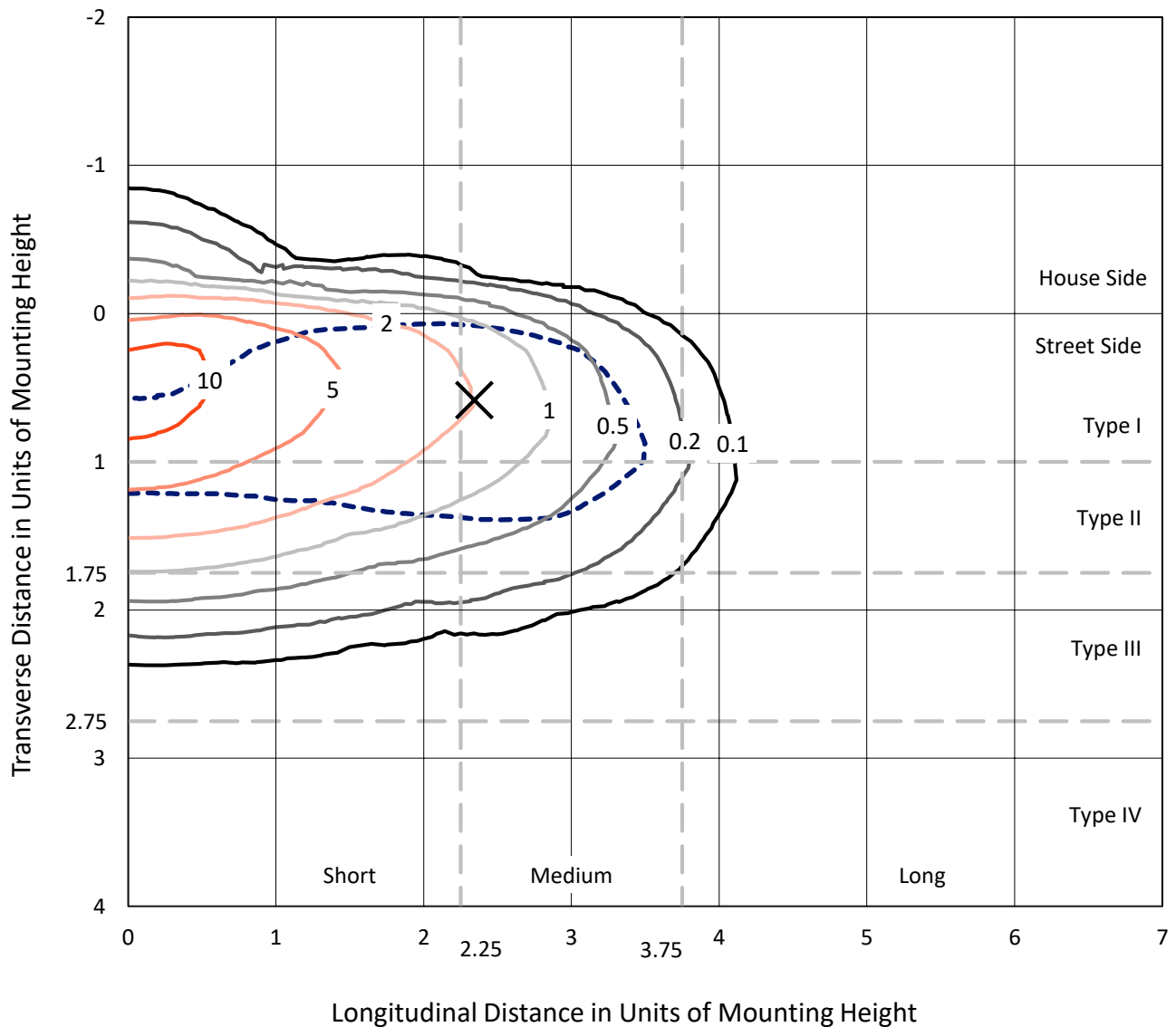
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

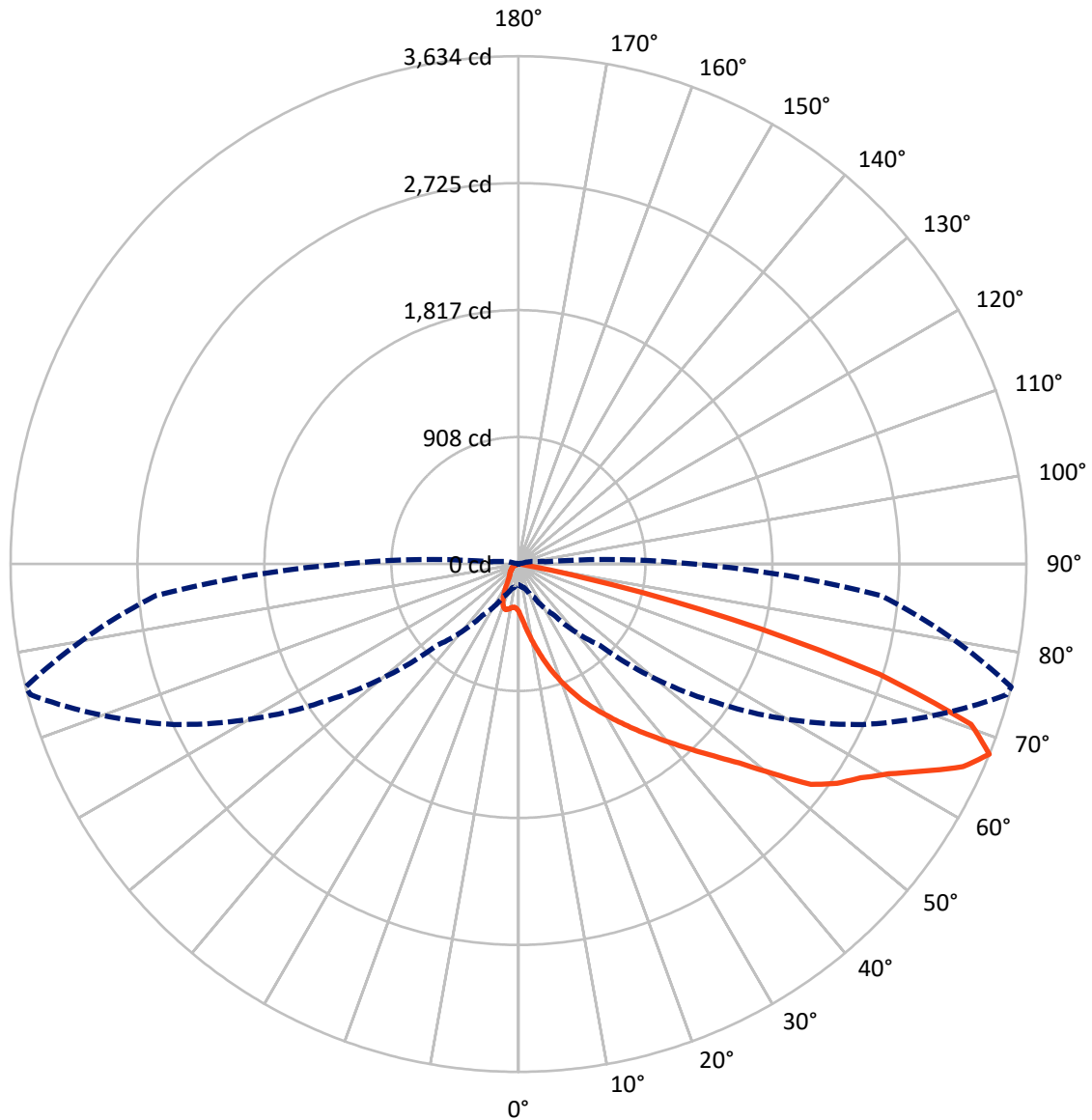
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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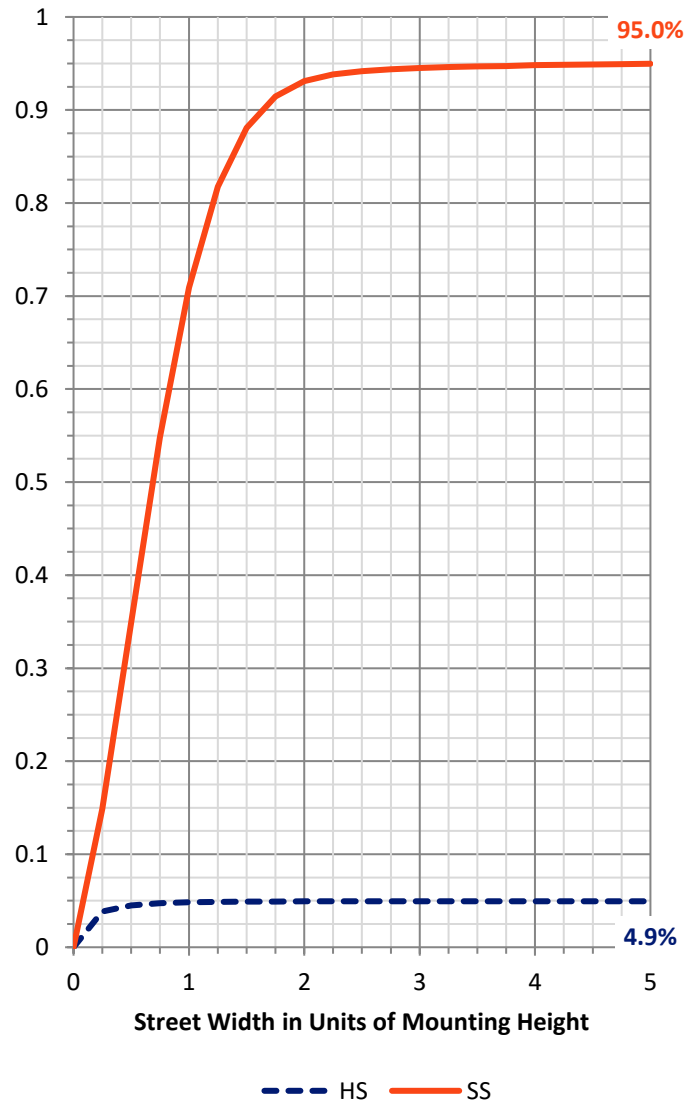
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	198.6	0.0	198.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3800.4	0.0	3800.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	3999.0	0.0	3999.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.1
10°-20°	167.2	4.2
20°-30°	340.2	8.5
30°-40°	590.5	14.8
40°-50°	834.4	20.9
50°-60°	946.2	23.7
60°-70°	784.8	19.6
70°-80°	284.3	7.1
80°-90°	9.2	0.2
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°	3999.0	100.0
0°-180°	3999.0	100.0



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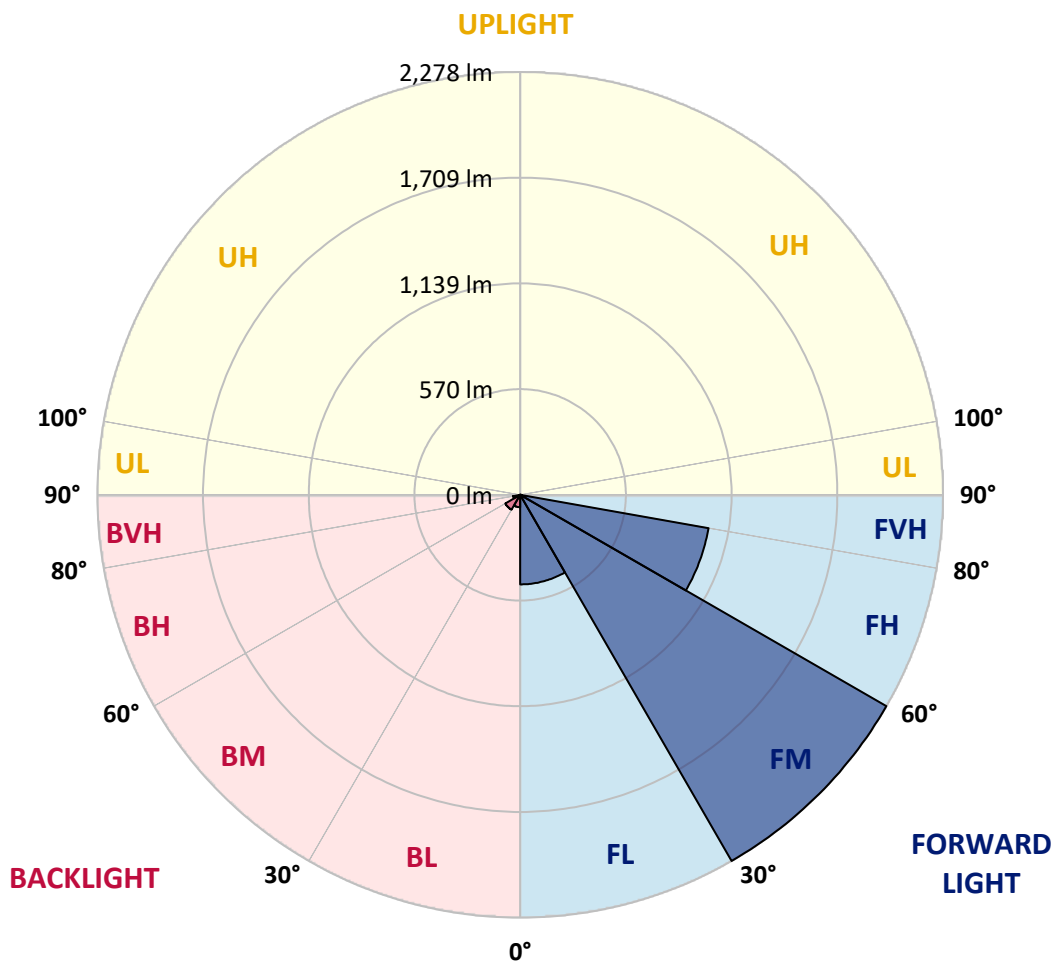
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.7	12.1			
FM	(30°-60°)	2278.2	57.0			
FH	(60°-80°)	1030.7	25.8			G1/1800
FVH	(80°-90°)	8.9	0.2			G0/10
BL	(0°-30°)	67.0	1.7	B0/110		
BM	(30°-60°)	92.9	2.3	B0/220		
BH	(60°-80°)	38.4	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2
2.5°	506.4	495.0	497.6	490.3	477.0	449.6	426.3	404.2	378.5	377.6	356.4
5°	682.8	673.2	672.0	657.1	632.9	586.5	541.3	489.7	432.3	428.1	383.0
7.5°	843.0	835.3	832.5	814.8	769.8	724.5	665.7	590.0	500.1	492.4	419.0
10°	966.0	962.3	963.0	950.4	911.9	869.8	792.5	696.0	577.0	565.1	462.1
12.5°	1059.2	1060.1	1066.4	1058.7	1037.1	1006.0	923.4	809.0	662.2	645.9	511.3
15°	1127.7	1132.1	1143.7	1153.3	1151.7	1124.8	1049.1	923.8	752.6	734.5	566.1
17.5°	1172.1	1177.0	1193.8	1215.2	1234.8	1228.5	1170.3	1034.5	844.0	823.2	624.8
20°	1211.0	1216.7	1234.8	1263.0	1299.6	1307.5	1269.3	1141.9	935.3	909.9	685.5
22.5°	1295.2	1295.1	1306.1	1322.6	1357.4	1377.8	1353.6	1241.6	1025.6	999.1	747.3
25°	1447.7	1441.9	1438.1	1425.1	1432.8	1445.4	1431.9	1334.8	1116.3	1089.5	810.1
27.5°	1628.9	1632.4	1601.2	1566.3	1539.3	1526.4	1504.3	1421.2	1203.6	1174.2	871.4
30°	1820.0	1821.1	1784.3	1739.8	1680.4	1631.1	1592.9	1503.8	1293.3	1261.3	931.0
32.5°	1992.5	1985.6	1949.2	1888.5	1813.6	1758.2	1678.8	1595.9	1388.3	1357.3	997.2
35°	2129.1	2121.1	2076.7	2021.5	1943.7	1888.0	1792.5	1687.9	1488.2	1457.9	1063.6
37.5°	2229.0	2219.5	2174.0	2117.2	2050.1	2017.7	1924.5	1788.0	1597.2	1564.6	1133.5
40°	2263.7	2255.5	2226.9	2185.4	2131.4	2124.0	2064.5	1903.1	1715.8	1681.1	1212.7
42.5°	2243.0	2235.0	2224.8	2210.8	2188.4	2195.4	2196.6	2034.3	1847.5	1813.4	1300.2
45°	2161.0	2153.8	2164.3	2184.9	2212.7	2247.4	2317.1	2175.4	1994.7	1958.3	1401.3
47.5°	2040.3	2035.0	2064.1	2115.3	2196.8	2292.4	2427.4	2323.6	2160.0	2126.2	1527.4
50°	1868.6	1867.7	1925.9	2019.3	2144.5	2314.2	2541.3	2492.2	2389.5	2353.9	1702.8
52.5°	1601.2	1602.9	1717.4	1866.8	2052.9	2299.4	2614.5	2708.8	2656.6	2619.6	1854.7
55°	1346.6	1357.1	1438.2	1653.8	1912.4	2244.8	2639.7	2809.9	2803.9	2768.9	1939.2
57.5°	1097.2	1116.3	1194.5	1395.8	1707.2	2118.8	2625.9	2853.7	2913.6	2886.8	2050.6
60°	827.1	835.8	925.9	1114.1	1443.8	1888.9	2525.5	2877.5	3063.6	3045.0	2212.4
62.5°	526.2	548.1	628.0	809.5	1124.2	1569.6	2356.2	2877.2	3251.3	3261.4	2421.1
65°	277.2	302.8	345.2	501.7	772.6	1213.1	2101.6	2850.2	3481.5	3495.7	2584.2
67.5°	149.5	156.8	179.3	260.4	448.0	821.8	1727.5	2717.0	3614.8	3633.6	2607.0
70°	109.3	113.4	121.8	144.0	225.5	477.3	1260.6	2415.1	3442.9	3435.9	2316.3
72.5°	83.9	90.2	96.5	105.5	129.7	254.8	784.8	1891.2	2747.1	2700.9	1731.4
75°	66.2	67.3	76.2	84.3	97.2	145.1	348.5	1101.4	1676.7	1567.2	897.8
77.5°	52.9	53.6	58.9	65.9	78.1	95.3	107.9	433.3	535.3	477.7	194.8
80°	31.4	33.1	43.8	50.8	64.8	60.1	39.4	94.1	83.6	75.7	32.8
82.5°	17.5	18.9	24.7	40.1	45.2	28.7	19.6	25.4	19.6	19.1	9.3
85°	0.0	0.9	15.9	24.9	18.4	6.3	8.2	8.4	5.8	5.4	3.7
87.5°	0.0	0.0	4.9	4.7	0.7	1.1	1.9	2.8	2.3	2.3	1.9
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°	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2
2.5°	345.9	336.4	318.6	301.0	286.3	274.2	263.4	259.0	255.5	254.9	252.1
5°	361.3	342.2	308.0	280.0	261.3	247.9	236.6	229.5	224.1	222.0	220.1
7.5°	384.6	355.7	306.6	274.4	252.0	229.5	208.5	185.7	171.5	166.1	163.0
10°	413.0	373.6	311.9	272.8	233.6	186.3	151.4	122.5	110.7	106.9	105.8
12.5°	446.1	395.8	321.0	263.0	194.3	132.3	104.4	94.6	92.0	90.8	90.8
15°	484.1	420.2	327.5	234.6	143.7	100.1	90.4	85.9	83.1	81.5	81.7
17.5°	523.0	444.0	324.3	193.4	106.0	89.0	81.8	76.9	73.1	71.5	71.1
20°	562.3	466.1	306.8	144.0	89.7	80.8	72.7	67.3	63.4	61.9	61.5
22.5°	602.9	484.8	276.0	105.7	80.6	71.7	63.8	58.3	54.7	53.3	52.6
25°	642.5	500.1	232.9	85.5	72.0	63.1	55.5	50.5	47.1	45.7	45.6
27.5°	679.5	509.7	182.9	75.5	64.5	55.4	48.5	44.0	41.2	40.1	40.0
30°	712.8	510.6	135.3	68.2	57.8	48.7	42.4	38.4	35.9	34.9	34.5
32.5°	746.4	503.2	98.5	61.5	51.7	42.9	36.8	33.6	31.9	31.0	31.0
35°	778.2	486.2	76.7	55.7	45.7	37.3	32.4	30.1	29.1	28.2	28.2
37.5°	809.2	461.9	65.2	50.6	40.1	32.6	28.6	27.2	26.3	25.4	25.4
40°	840.7	431.2	59.2	45.9	35.6	28.9	25.4	24.2	23.3	22.6	22.4
42.5°	879.4	395.8	55.4	41.5	31.5	25.6	22.4	21.0	20.3	19.6	19.3
45°	924.3	365.3	52.2	37.1	28.2	22.8	19.4	18.0	17.0	16.1	15.9
47.5°	989.0	343.3	48.0	32.4	25.1	19.8	16.8	15.2	13.7	12.8	12.6
50°	1071.5	325.0	42.6	28.2	21.9	16.8	14.0	12.1	10.7	9.8	9.8
52.5°	1112.5	301.2	37.7	24.5	18.4	14.2	11.4	9.1	8.4	7.5	7.5
55°	1129.0	283.0	32.8	20.9	15.2	11.7	8.9	7.0	6.5	6.0	5.8
57.5°	1175.2	277.7	28.6	17.7	12.6	9.3	6.8	5.3	4.9	4.2	4.2
60°	1249.7	280.4	24.7	15.1	10.2	7.2	5.1	4.0	3.7	3.0	3.0
62.5°	1330.1	277.0	20.9	13.0	7.9	5.3	3.5	3.0	3.0	1.8	1.6
65°	1345.5	246.7	17.9	10.7	6.1	3.9	2.3	1.9	2.6	0.4	0.0
67.5°	1248.8	191.3	15.4	8.2	4.6	3.0	1.8	0.9	2.3	0.0	0.0
70°	998.6	121.6	12.4	6.0	3.5	2.5	1.4	0.4	1.8	0.0	0.0
72.5°	706.1	70.6	9.8	4.2	3.0	1.9	1.1	0.0	1.1	0.0	0.0
75°	357.1	37.7	6.1	3.2	2.3	1.4	0.7	0.0	0.2	0.0	0.0
77.5°	77.3	17.5	3.9	2.3	1.6	0.9	0.4	0.0	0.0	0.0	0.0
80°	16.8	7.7	2.5	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	6.1	4.0	1.2	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	2.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.7	0.2	0.2	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)