

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: P397699

Luminaire Tested: **ARCH-S-PA1-30-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4756 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 31
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

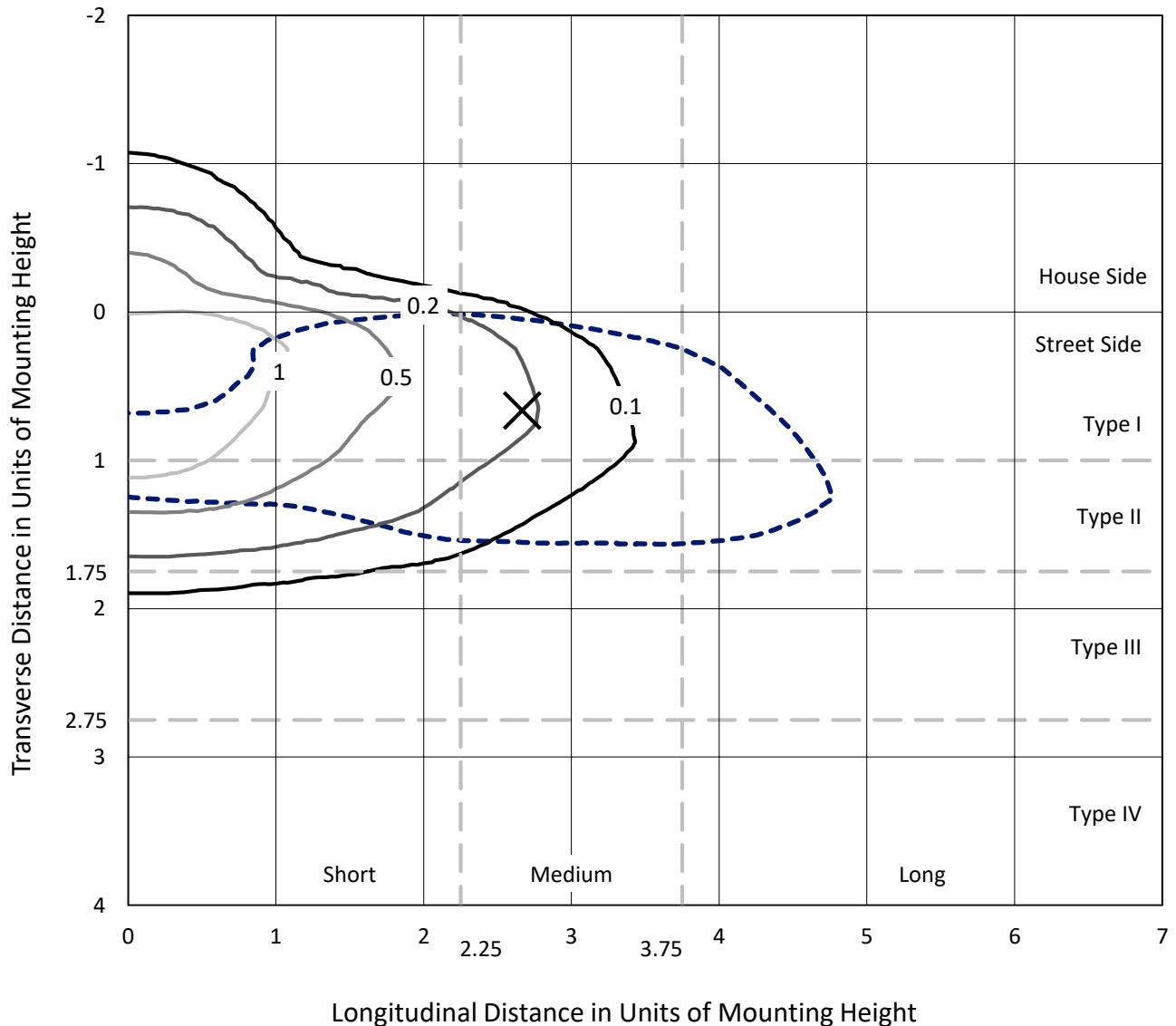


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

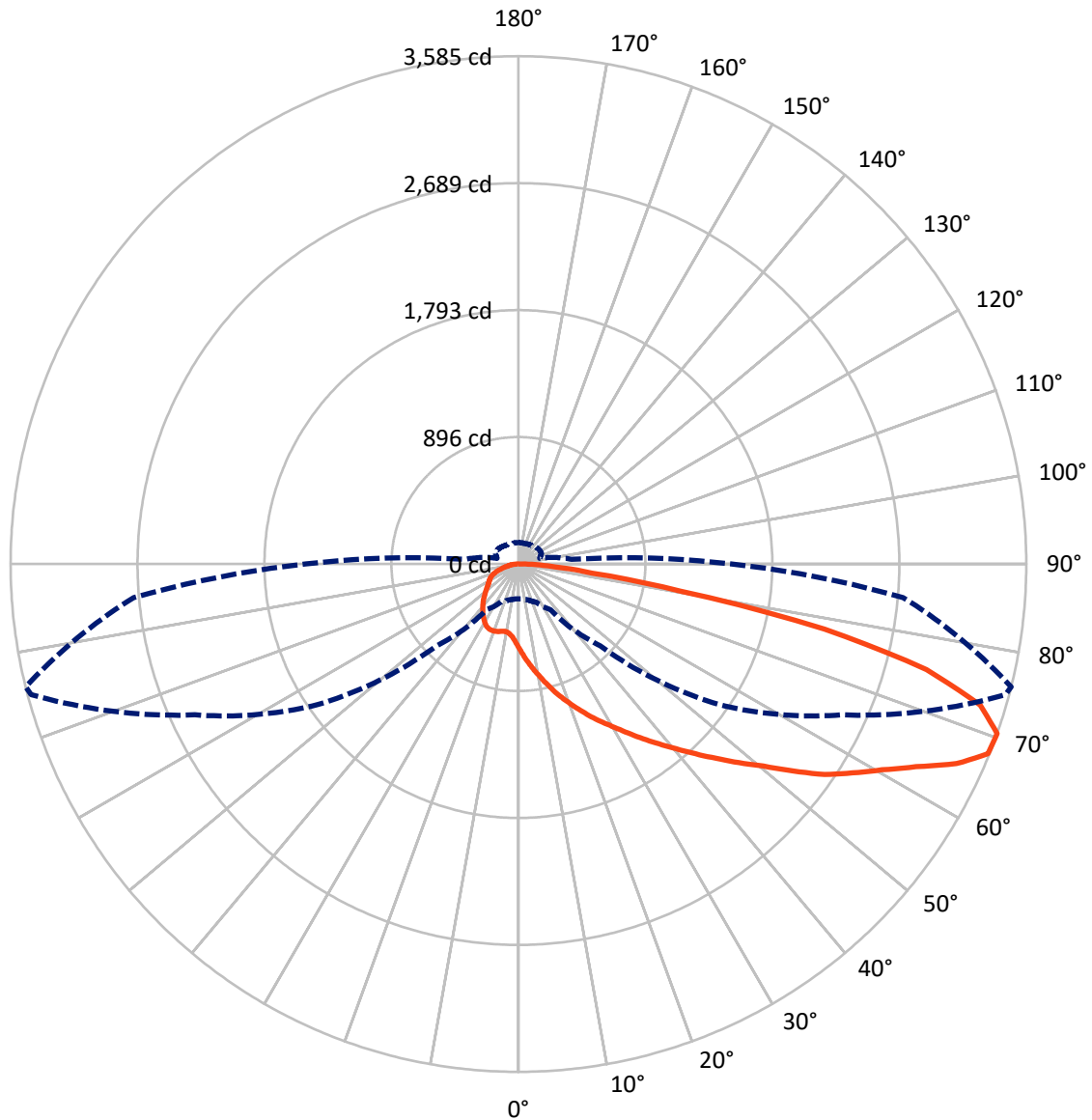


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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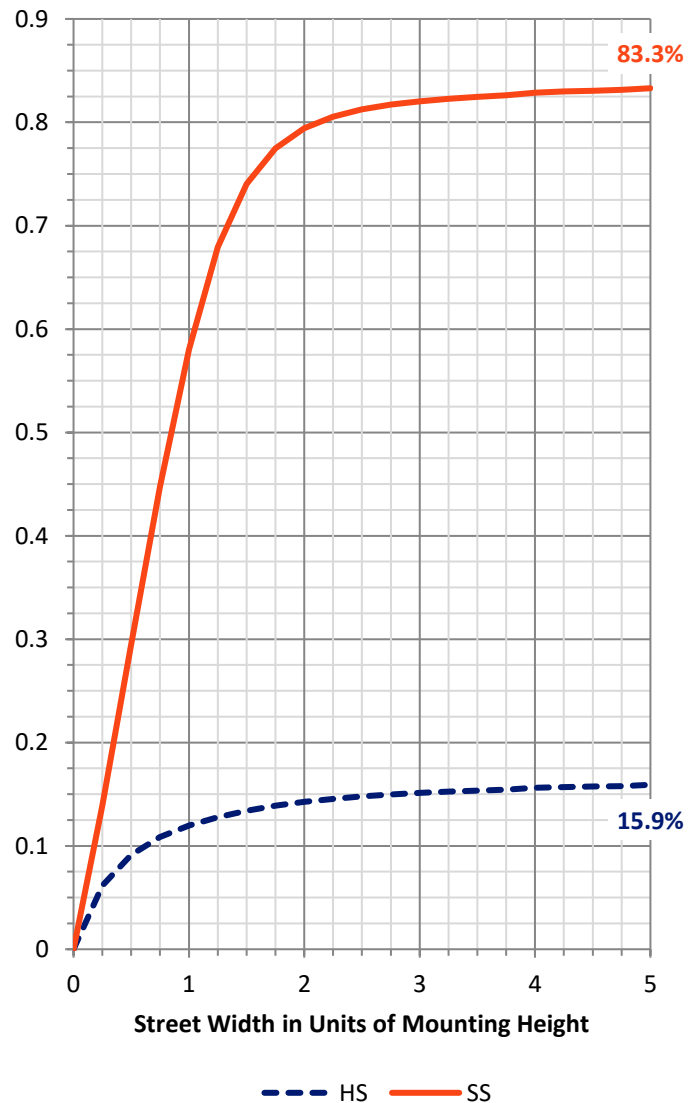
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	776.5	0.0	776.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3979.5	0.0	3979.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	4756.0	0.0	4756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.3
10°-20°	210.0	4.4
20°-30°	375.8	7.9
30°-40°	607.9	12.8
40°-50°	879.4	18.5
50°-60°	1006.5	21.2
60°-70°	925.9	19.5
70°-80°	572.5	12.0
80°-90°	116.3	2.4
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°	4756.0	100.0
0°-180°	4756.0	100.0

Coefficient of Utilization



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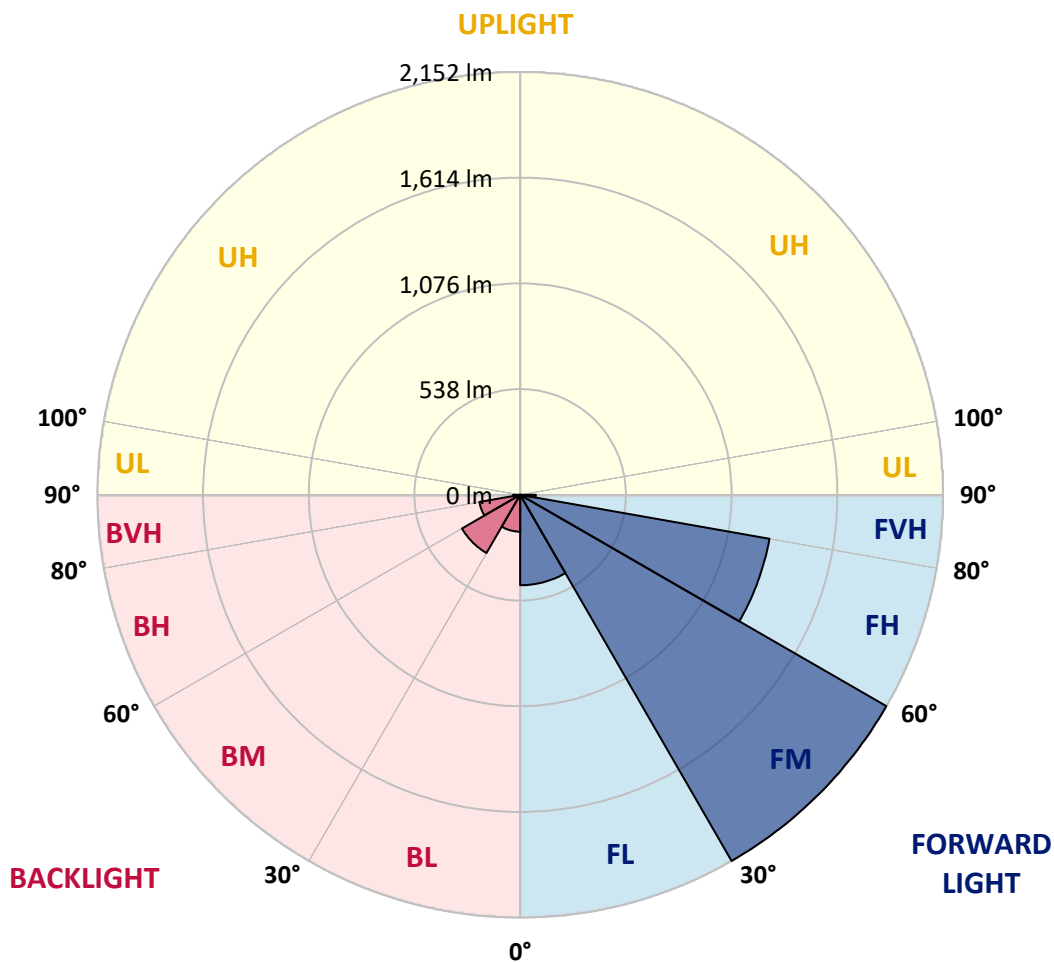
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.1	9.7			
FM (30°-60°)	2151.9	45.2			
FH (60°-80°)	1287.8	27.1			G1/1800
FVH (80°-90°)	79.8	1.7			G1/100
BL (0°-30°)	187.5	3.9	B1/500		
BM (30°-60°)	341.9	7.2	B1/1000		
BH (60°-80°)	210.6	4.4	B1/500		G1/500
BVH (80°-90°)	36.4	0.8			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8
2.5°	758.0	752.4	751.7	743.0	734.8	713.0	697.3	669.8	642.3	641.7	614.1
5°	876.2	870.6	867.4	856.8	843.0	814.3	786.1	743.6	696.7	693.6	641.7
7.5°	956.2	951.2	945.0	940.6	927.5	901.8	867.4	816.8	752.4	746.1	673.6
10°	1010.0	1006.9	1005.6	1002.5	994.4	973.8	940.6	886.8	808.0	801.1	707.3
12.5°	1033.2	1031.9	1037.5	1046.3	1049.4	1041.3	1009.4	958.7	869.3	861.8	748.0
15°	1006.3	1007.5	1021.9	1051.9	1083.8	1101.3	1082.6	1033.2	938.7	928.1	795.5
17.5°	993.8	995.6	1005.6	1034.4	1079.4	1133.9	1142.6	1103.8	1005.6	990.6	845.5
20°	1015.7	1018.2	1025.7	1048.2	1079.4	1137.6	1183.3	1171.4	1071.3	1055.7	893.7
22.5°	1071.3	1074.4	1073.8	1088.2	1109.5	1149.5	1205.8	1235.2	1140.1	1122.6	943.7
25°	1190.1	1187.6	1166.4	1159.5	1165.1	1190.8	1235.8	1296.5	1212.0	1194.5	996.3
27.5°	1351.5	1348.4	1309.6	1274.6	1243.3	1254.6	1278.3	1345.9	1285.2	1265.2	1046.3
30°	1524.1	1520.4	1475.3	1418.4	1349.0	1332.7	1329.6	1389.0	1359.0	1337.7	1099.5
32.5°	1692.3	1689.2	1641.1	1574.8	1479.1	1430.3	1400.3	1437.2	1442.8	1422.2	1157.6
35°	1845.6	1845.6	1804.3	1725.5	1617.3	1543.5	1494.1	1496.6	1539.1	1515.4	1223.9
37.5°	1981.9	1981.3	1936.2	1858.7	1754.9	1670.5	1609.2	1568.5	1631.1	1610.4	1293.3
40°	2090.1	2085.7	2052.6	1985.0	1880.6	1796.8	1734.9	1652.9	1733.6	1714.9	1367.1
42.5°	2168.9	2166.4	2143.9	2085.1	1985.7	1906.9	1864.3	1759.3	1849.9	1831.2	1453.4
45°	2199.5	2204.5	2204.5	2148.9	2070.1	1998.2	1979.4	1876.2	1975.6	1956.9	1546.0
47.5°	2150.1	2163.3	2190.2	2193.9	2124.5	2075.7	2082.0	1993.8	2105.1	2095.1	1647.3
50°	1995.7	2020.1	2078.8	2185.2	2146.4	2135.1	2169.5	2113.9	2243.9	2240.8	1770.5
52.5°	1597.3	1656.7	1839.9	2030.7	2131.4	2162.6	2256.5	2248.9	2422.8	2427.8	1931.2
55°	1225.2	1247.7	1459.7	1784.3	2039.4	2153.9	2314.6	2380.9	2616.7	2622.9	2078.8
57.5°	990.6	1005.6	1121.3	1459.7	1829.9	2106.4	2360.3	2457.8	2765.5	2781.8	2210.2
60°	784.9	806.8	884.3	1117.0	1536.6	1991.9	2392.2	2543.5	2925.6	2950.0	2367.1
62.5°	583.5	594.1	667.3	827.4	1216.4	1786.2	2375.3	2636.7	3122.0	3151.4	2556.0
65°	415.3	424.6	476.6	588.5	899.3	1507.8	2277.1	2706.1	3368.4	3398.4	2746.1
67.5°	310.8	314.6	344.0	411.5	606.0	1171.4	2078.2	2694.2	3548.5	3575.4	2822.4
70°	245.8	247.0	261.4	297.7	394.0	815.5	1729.9	2519.7	3561.7	3585.4	2726.1
72.5°	203.9	203.3	211.4	228.9	274.6	516.0	1281.5	2195.8	3392.8	3409.1	2457.2
75°	168.2	169.5	175.1	185.1	209.5	340.2	830.5	1751.8	2993.2	2975.7	2062.0
77.5°	141.3	140.7	143.2	152.0	169.5	244.5	486.6	1265.8	2218.3	2209.5	1353.4
80°	113.8	115.1	118.8	126.3	142.6	186.4	287.7	789.9	1190.1	1158.2	646.7
82.5°	76.3	88.2	95.7	104.4	123.2	137.6	182.6	401.5	532.2	524.1	293.3
85°	36.3	48.2	71.3	81.3	100.1	86.3	123.8	191.4	266.4	263.3	105.7
87.5°	7.5	7.5	38.1	45.7	61.9	36.9	68.8	83.2	128.8	120.7	43.2
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°	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8
2.5°	597.9	581.0	547.2	520.3	492.8	477.2	457.8	448.4	446.5	441.5	445.3
5°	608.5	575.4	511.6	469.7	441.5	427.8	420.9	418.4	417.8	416.5	416.5
7.5°	622.9	572.2	489.1	446.5	428.4	424.0	425.9	429.7	430.3	431.5	430.9
10°	640.4	572.9	476.6	440.9	432.2	432.8	439.0	444.0	446.5	448.4	447.8
12.5°	664.8	580.4	474.7	444.7	440.9	443.4	449.7	454.7	457.2	457.8	457.8
15°	696.7	596.0	479.1	452.8	449.7	451.5	455.3	457.2	457.8	457.2	457.2
17.5°	731.7	614.8	485.3	457.8	452.8	450.9	449.7	447.8	444.0	441.5	441.5
20°	765.5	631.7	488.4	457.2	448.4	440.9	433.4	424.0	417.8	412.8	412.8
22.5°	799.3	647.3	488.4	450.3	436.5	422.1	406.5	391.5	382.1	375.9	375.9
25°	834.9	662.3	484.7	438.4	417.8	397.1	375.9	357.1	347.7	341.5	340.2
27.5°	864.9	671.1	474.7	421.5	394.6	368.4	344.0	324.6	317.7	312.1	312.1
30°	896.8	676.7	455.9	399.6	368.4	338.3	313.3	297.7	290.2	282.1	281.4
32.5°	932.5	680.4	434.7	376.5	341.5	309.6	288.3	275.8	259.5	250.8	249.5
35°	973.8	685.4	412.1	350.2	314.6	285.8	273.3	252.7	237.0	229.5	228.9
37.5°	1017.5	689.2	387.7	327.1	290.2	270.2	257.7	233.3	219.5	208.3	207.0
40°	1063.8	689.2	362.7	304.6	270.8	263.3	239.5	217.6	194.5	188.9	187.6
42.5°	1115.1	687.9	337.7	282.7	252.7	247.7	228.9	205.8	193.9	188.9	187.6
45°	1169.5	683.6	314.0	257.7	233.9	223.9	209.5	203.3	198.3	198.3	198.3
47.5°	1231.4	679.8	287.1	235.2	220.1	208.9	198.3	194.5	193.9	195.8	197.6
50°	1310.8	678.6	264.5	218.9	209.5	196.4	195.1	192.0	192.6	192.6	192.6
52.5°	1407.2	667.3	243.3	207.0	198.9	183.2	187.0	190.1	191.4	190.7	190.1
55°	1477.8	647.3	225.1	198.9	191.4	178.2	183.2	188.2	189.5	187.6	187.6
57.5°	1541.6	619.1	210.8	192.6	186.4	175.1	180.7	185.7	184.5	183.9	183.2
60°	1614.8	592.3	199.5	189.5	181.4	173.9	178.9	182.0	180.1	178.9	178.2
62.5°	1694.2	566.0	191.4	189.5	177.6	173.2	177.0	178.2	174.5	173.2	173.2
65°	1731.1	524.7	182.6	189.5	175.7	172.0	173.2	172.0	168.2	168.2	167.6
67.5°	1670.5	456.5	171.4	187.0	178.2	170.1	167.6	165.7	161.4	161.4	160.1
70°	1502.8	375.2	155.1	178.9	178.9	169.5	160.1	155.7	150.7	152.6	150.1
72.5°	1284.0	297.7	135.1	165.1	175.1	168.9	152.0	145.1	140.7	142.6	138.8
75°	1040.0	230.8	111.3	143.2	165.7	165.7	143.8	134.5	129.5	129.5	125.1
77.5°	662.9	170.7	90.7	118.8	148.8	161.4	137.0	122.6	115.1	113.2	110.1
80°	328.3	120.1	74.4	94.4	127.0	151.3	132.0	108.8	98.2	94.4	88.8
82.5°	174.5	83.2	59.4	73.8	101.3	136.3	125.7	93.8	80.7	75.0	68.8
85°	78.2	51.3	47.5	56.3	76.9	111.9	113.2	76.9	61.9	73.8	54.4
87.5°	28.8	23.1	23.1	28.8	44.4	46.9	80.1	49.4	39.4	26.9	21.3
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)