

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: P348678

Luminaire Tested: **ARCH-N-PA1-50-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-50-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4987 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52
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

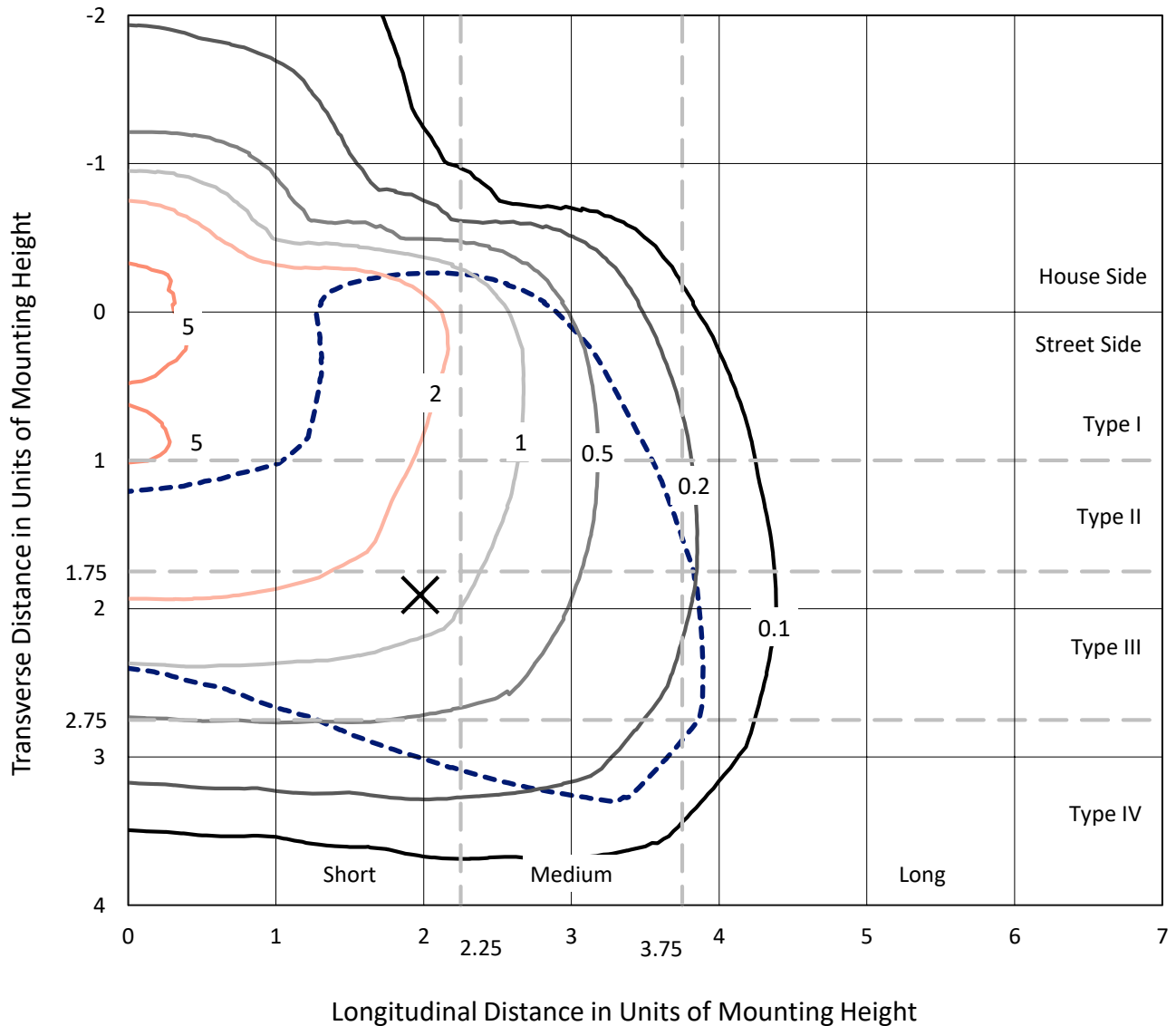


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

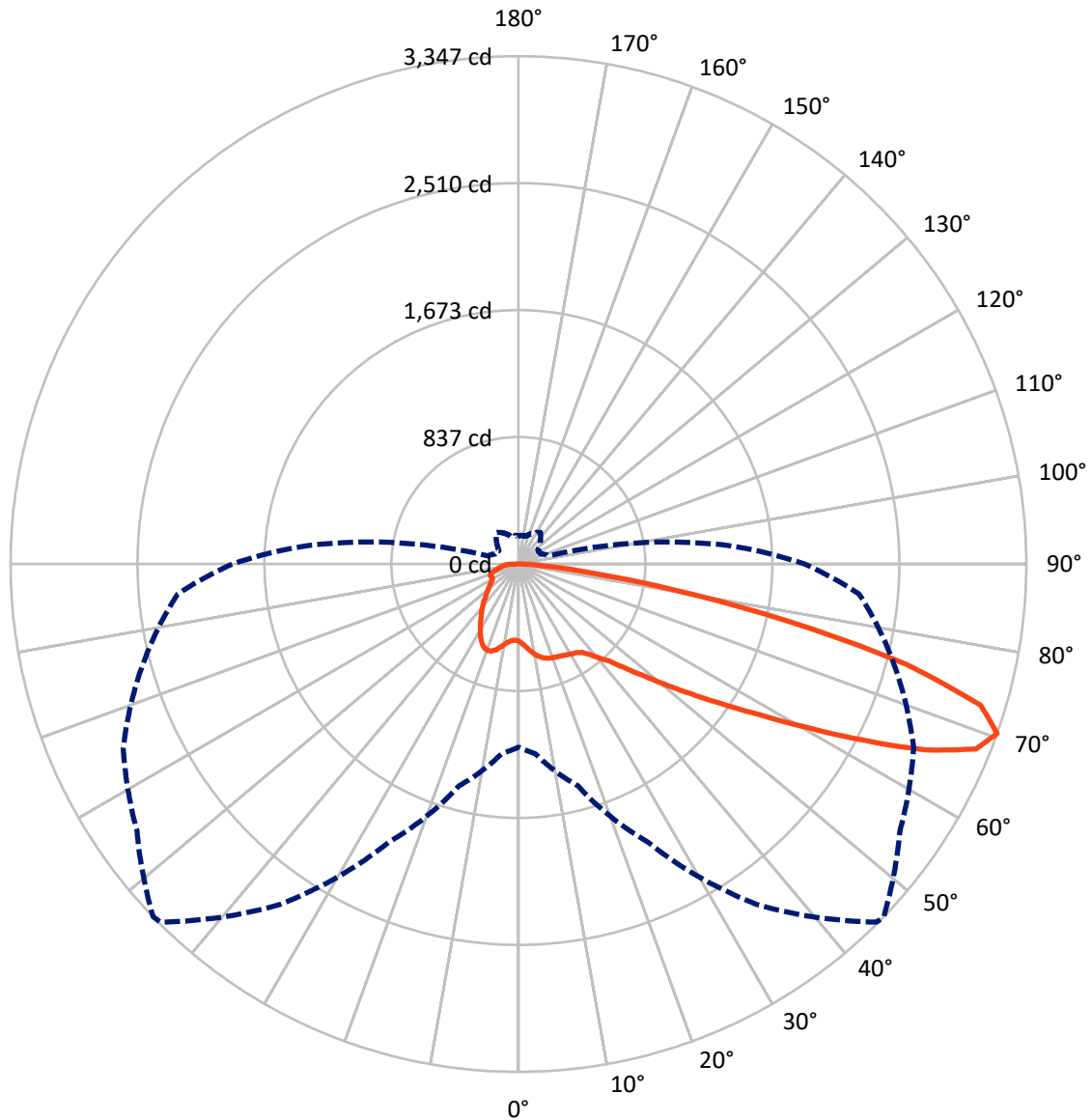


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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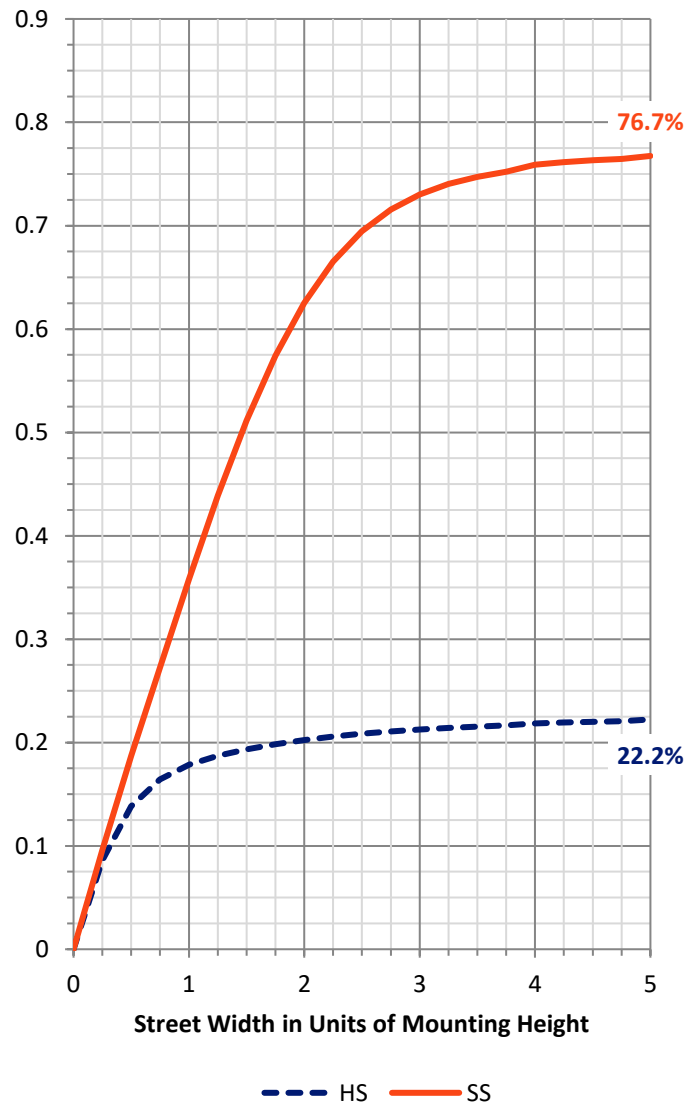
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.0	0.0	1143.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3844.0	0.0	3844.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	4987.0	0.0	4987.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	1.0
10°-20°	172.6	3.5
20°-30°	287.7	5.8
30°-40°	408.3	8.2
40°-50°	600.6	12.0
50°-60°	1017.1	20.4
60°-70°	1443.8	29.0
70°-80°	877.1	17.6
80°-90°	128.0	2.6
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°	4987.0	100.0
0°-180°	4987.0	100.0



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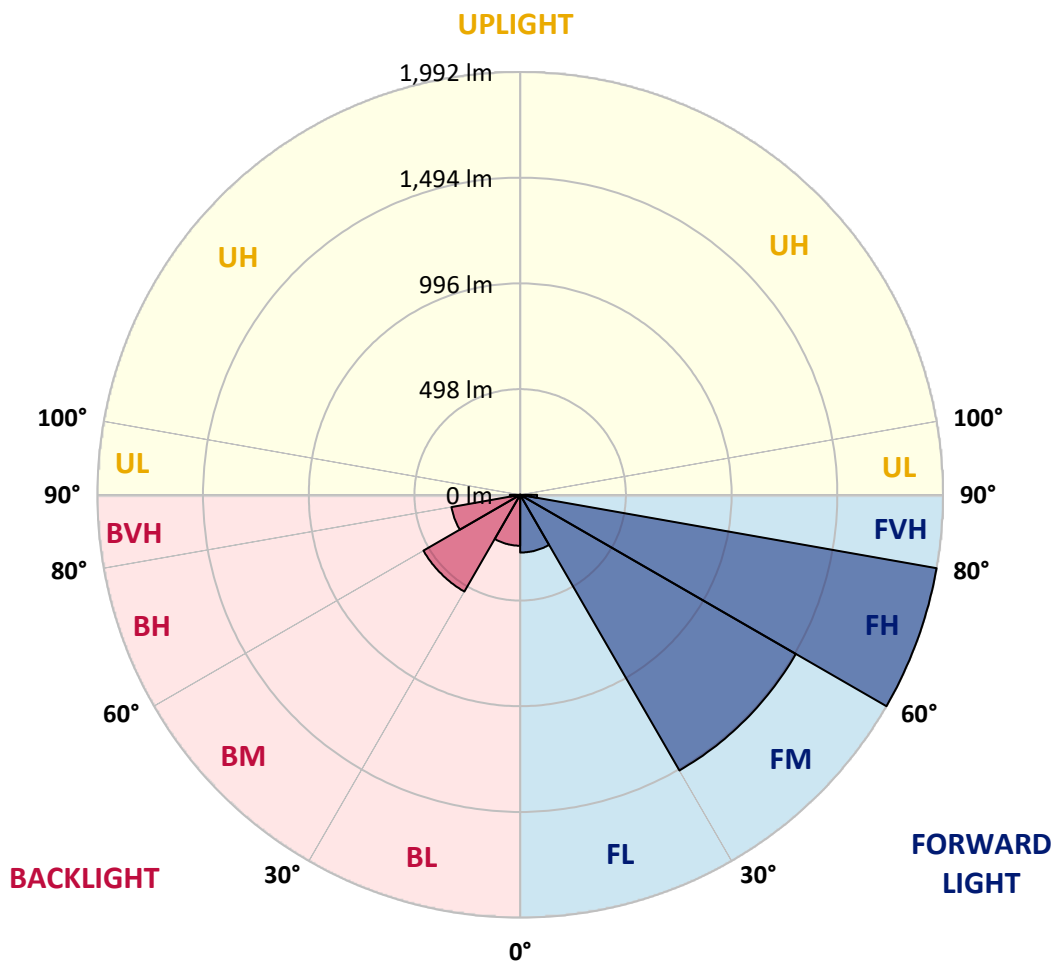
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.1	5.5			
FM	(30°-60°)	1499.9	30.1			
FH	(60°-80°)	1992.3	39.9			G2/5000
FVH	(80°-90°)	79.7	1.6			G1/100
BL	(0°-30°)	240.0	4.8	B1/500		
BM	(30°-60°)	526.2	10.6	B1/1000		
BH	(60°-80°)	328.6	6.6	B1/500		G1/500
BVH	(80°-90°)	48.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1
2.5°	533.5	533.8	534.5	532.8	528.0	526.7	526.2	521.2	518.0	513.2	509.1
5°	576.2	576.5	575.5	570.7	560.1	552.3	551.6	540.3	530.1	519.2	511.0
7.5°	620.7	621.2	618.0	608.9	594.1	580.4	579.6	564.2	548.7	532.1	519.9
10°	660.1	658.1	652.8	640.2	622.6	605.9	605.2	589.1	571.2	551.3	534.9
12.5°	686.4	684.7	677.9	662.5	643.2	627.9	626.5	611.7	594.3	572.4	552.8
15°	700.9	702.1	692.9	675.5	656.7	643.8	642.6	632.0	616.5	594.4	571.9
17.5°	702.8	703.8	695.0	677.7	662.4	653.5	653.0	646.0	634.7	613.6	590.0
20°	691.9	692.6	685.2	671.1	661.0	658.3	658.1	655.0	646.7	627.9	605.0
22.5°	676.0	676.5	671.2	661.0	657.6	661.8	663.0	661.8	655.9	638.3	616.8
25°	672.1	671.7	666.3	655.9	658.8	667.8	669.4	669.9	665.8	650.4	631.8
27.5°	691.0	689.8	679.4	662.7	664.6	675.5	677.6	682.5	679.9	666.5	648.9
30°	745.8	743.8	722.4	688.6	679.4	685.1	687.6	695.5	696.0	684.7	671.6
32.5°	838.3	835.8	797.5	737.1	704.5	694.8	697.2	709.0	715.3	706.6	692.4
35°	955.2	952.3	902.1	819.5	746.5	713.4	715.1	724.5	737.1	724.8	706.1
37.5°	1077.1	1070.1	1021.8	916.5	813.2	753.2	753.2	754.4	760.3	734.7	722.1
40°	1198.3	1191.3	1147.6	1030.5	899.6	815.8	811.9	785.4	780.6	758.6	754.4
42.5°	1310.9	1308.9	1283.1	1159.3	1001.0	877.4	871.9	827.1	828.1	814.4	814.6
45°	1430.7	1430.7	1409.7	1289.4	1119.1	976.4	970.9	904.9	915.1	908.8	924.0
47.5°	1528.5	1531.6	1528.7	1424.9	1256.5	1102.2	1092.3	1012.7	1041.4	1063.1	1107.3
50°	1628.3	1633.1	1633.6	1573.6	1422.5	1251.7	1240.4	1155.9	1219.9	1282.1	1368.9
52.5°	1773.2	1784.0	1741.2	1721.9	1626.0	1429.2	1418.1	1340.1	1446.9	1534.1	1683.8
55°	1907.6	1898.2	1867.6	1879.6	1843.7	1631.2	1622.9	1554.4	1699.9	1813.2	2007.6
57.5°	1980.3	1979.6	2010.3	2061.5	2078.6	1880.4	1873.4	1806.9	1985.0	2070.2	2311.5
60°	2065.6	2066.8	2142.9	2259.1	2329.4	2190.7	2187.6	2137.1	2262.0	2310.2	2549.9
62.5°	2077.5	2099.0	2230.1	2430.1	2564.3	2553.2	2560.0	2434.6	2509.8	2501.6	2728.0
65°	1940.2	1968.5	2205.7	2481.8	2797.8	2949.6	2956.0	2733.8	2705.3	2665.3	2791.6
67.5°	1658.5	1700.5	1958.2	2369.4	2874.7	3242.7	3251.6	2965.7	2867.4	2720.8	2638.4
70°	1207.0	1253.6	1513.0	2023.6	2737.5	3336.4	3346.5	3068.3	2873.5	2562.9	2252.3
72.5°	729.1	765.6	979.5	1489.8	2310.5	3165.7	3183.6	2938.2	2623.5	2170.9	1663.2
75°	320.2	344.1	473.6	858.5	1654.1	2619.2	2641.6	2515.0	2131.6	1577.7	983.0
77.5°	136.4	143.2	194.2	372.9	935.1	1789.8	1820.5	1837.6	1446.2	858.5	415.4
80°	85.0	87.7	109.9	168.8	437.6	1005.2	1038.3	1081.2	718.2	315.6	145.1
82.5°	51.7	54.8	73.0	102.1	227.8	455.7	471.6	501.8	278.7	136.4	75.1
85°	31.1	33.3	44.7	64.5	129.7	179.2	179.0	198.0	131.2	87.7	39.6
87.5°	14.8	16.6	23.9	33.5	65.4	67.2	63.0	71.3	79.7	57.5	20.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1
2.5°	507.7	507.1	504.8	503.1	502.8	501.8	500.9	501.4	502.1	502.3	502.3
5°	507.6	505.7	502.8	501.6	503.1	505.2	507.7	511.1	513.2	514.7	515.8
7.5°	515.8	512.2	508.9	508.2	511.3	516.8	522.6	529.8	534.7	538.1	538.8
10°	529.4	525.0	521.7	522.4	527.9	535.7	543.9	553.1	560.6	565.3	565.6
12.5°	545.1	540.8	537.8	540.7	549.7	559.3	567.8	575.8	582.7	587.3	587.3
15°	563.2	560.1	556.5	563.2	575.5	584.0	587.6	591.5	595.3	598.7	598.0
17.5°	580.6	577.7	575.8	583.7	596.5	600.4	598.0	595.1	595.1	597.0	597.3
20°	595.6	593.1	594.3	601.9	608.6	604.5	595.6	586.4	582.7	583.7	584.7
22.5°	608.8	607.6	611.2	614.7	610.0	595.6	579.2	566.8	562.2	561.8	562.2
25°	624.1	624.0	628.4	621.9	600.8	574.3	552.3	540.2	537.6	539.7	543.1
27.5°	643.2	645.1	647.3	623.6	582.0	542.0	519.7	511.3	513.9	518.8	522.1
30°	667.7	672.8	668.0	619.4	555.0	505.2	483.8	481.5	488.5	495.4	498.9
32.5°	691.4	699.4	687.8	608.3	520.2	466.1	449.5	448.9	457.4	464.2	469.0
35°	710.5	726.4	702.6	586.2	479.9	430.1	418.0	413.4	416.4	424.5	429.9
37.5°	735.4	761.9	712.9	552.6	436.2	400.4	386.2	375.6	372.9	376.2	378.9
40°	781.0	816.0	717.7	505.7	393.6	370.7	356.4	340.8	330.1	322.2	322.4
42.5°	855.4	886.4	714.6	448.7	354.1	341.7	325.5	307.5	290.1	272.4	271.0
45°	976.2	991.2	705.4	388.3	319.5	311.3	296.1	278.2	255.0	234.8	233.0
47.5°	1169.6	1136.3	691.0	335.5	288.9	285.5	271.5	250.9	226.3	210.1	208.7
50°	1433.3	1345.7	684.0	293.5	262.0	263.0	251.6	229.7	206.5	194.6	193.2
52.5°	1748.7	1589.6	697.5	261.1	240.3	243.9	235.4	214.9	195.4	186.0	184.7
55°	2075.8	1842.2	712.0	237.6	219.8	226.8	223.9	207.0	189.4	180.7	179.5
57.5°	2355.9	2030.8	683.0	218.5	201.6	212.5	215.0	202.1	186.4	178.5	177.2
60°	2532.2	2106.7	606.9	200.5	187.1	201.0	209.9	200.7	187.6	186.9	185.9
62.5°	2615.8	2100.1	492.7	186.4	178.0	196.1	213.7	208.4	201.2	207.4	207.9
65°	2578.3	1999.7	366.9	177.0	171.5	198.0	224.9	222.9	205.1	211.3	212.1
67.5°	2331.1	1760.3	271.7	168.8	164.4	203.3	245.4	227.7	197.5	201.9	199.2
70°	1884.2	1395.5	209.6	159.6	157.0	202.6	254.6	224.8	189.1	190.1	182.8
72.5°	1299.3	951.6	170.5	151.0	146.4	184.7	248.2	217.6	182.1	174.3	164.5
75°	706.6	510.8	144.9	142.2	127.8	162.1	236.2	212.5	175.8	165.4	159.9
77.5°	278.0	212.0	125.8	130.0	111.8	143.2	222.9	202.8	167.1	153.4	150.7
80°	113.5	108.2	104.3	112.5	96.1	125.3	206.8	191.3	156.7	142.3	136.9
82.5°	64.3	67.2	81.1	88.7	78.0	115.4	199.2	182.1	144.2	127.5	121.0
85°	32.9	39.4	56.5	63.7	57.3	98.1	183.5	159.4	115.7	97.6	98.1
87.5°	15.9	22.0	35.7	39.9	37.2	71.0	137.0	115.5	90.1	71.3	69.1
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)