

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: P348544

Luminaire Tested: **ARCH-N-PA1-40-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5594 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - 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

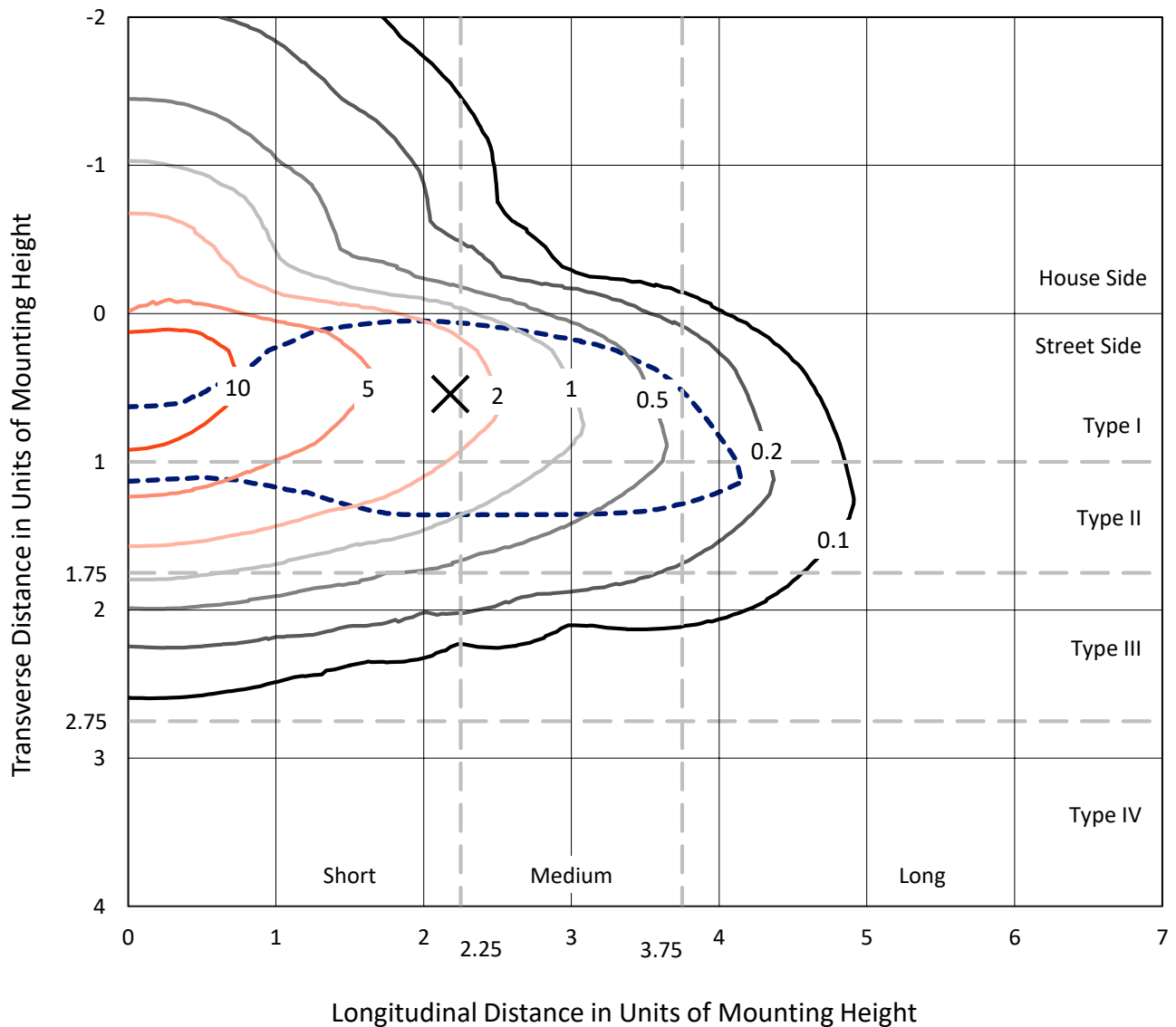


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

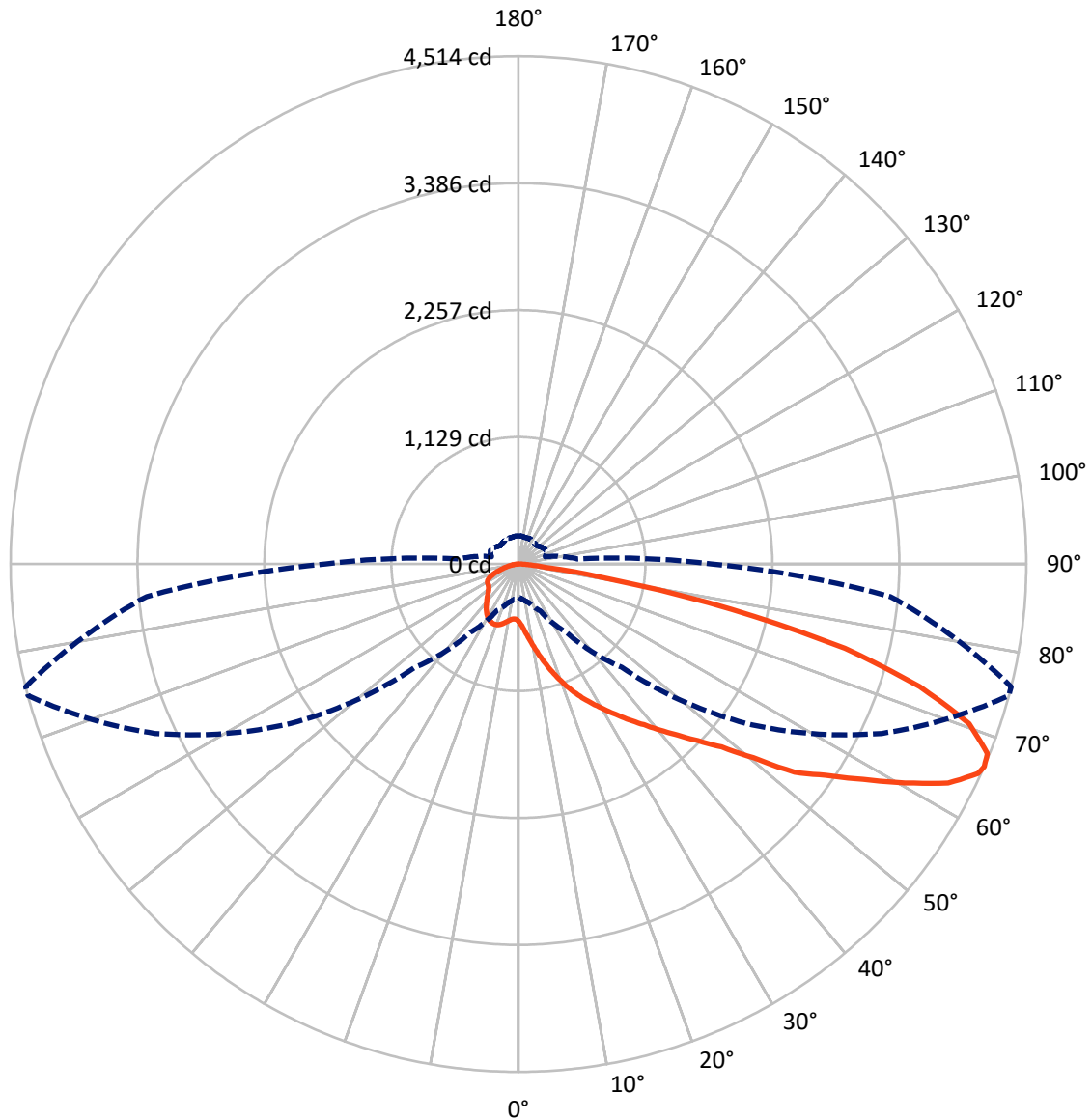


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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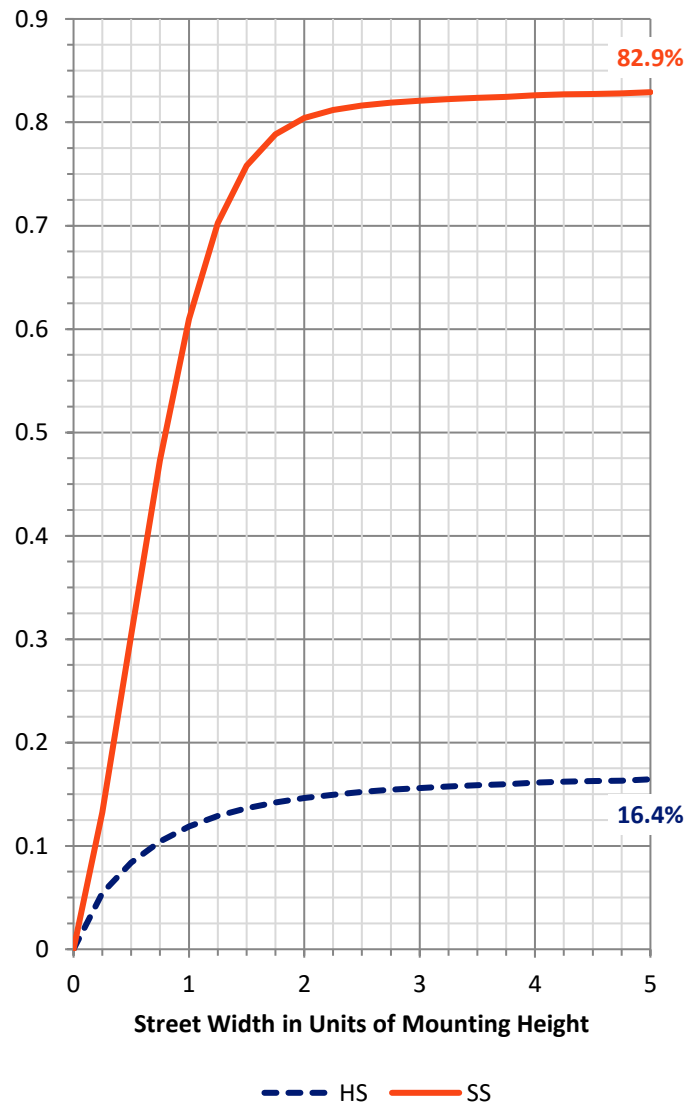
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.3	0.0	941.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4652.7	0.0	4652.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	5594.0	0.0	5594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.1
10°-20°	244.0	4.4
20°-30°	474.1	8.5
30°-40°	773.8	13.8
40°-50°	1057.2	18.9
50°-60°	1231.4	22.0
60°-70°	1103.9	19.7
70°-80°	557.9	10.0
80°-90°	90.1	1.6
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°	5594.0	100.0
0°-180°	5594.0	100.0

Coefficient of Utilization



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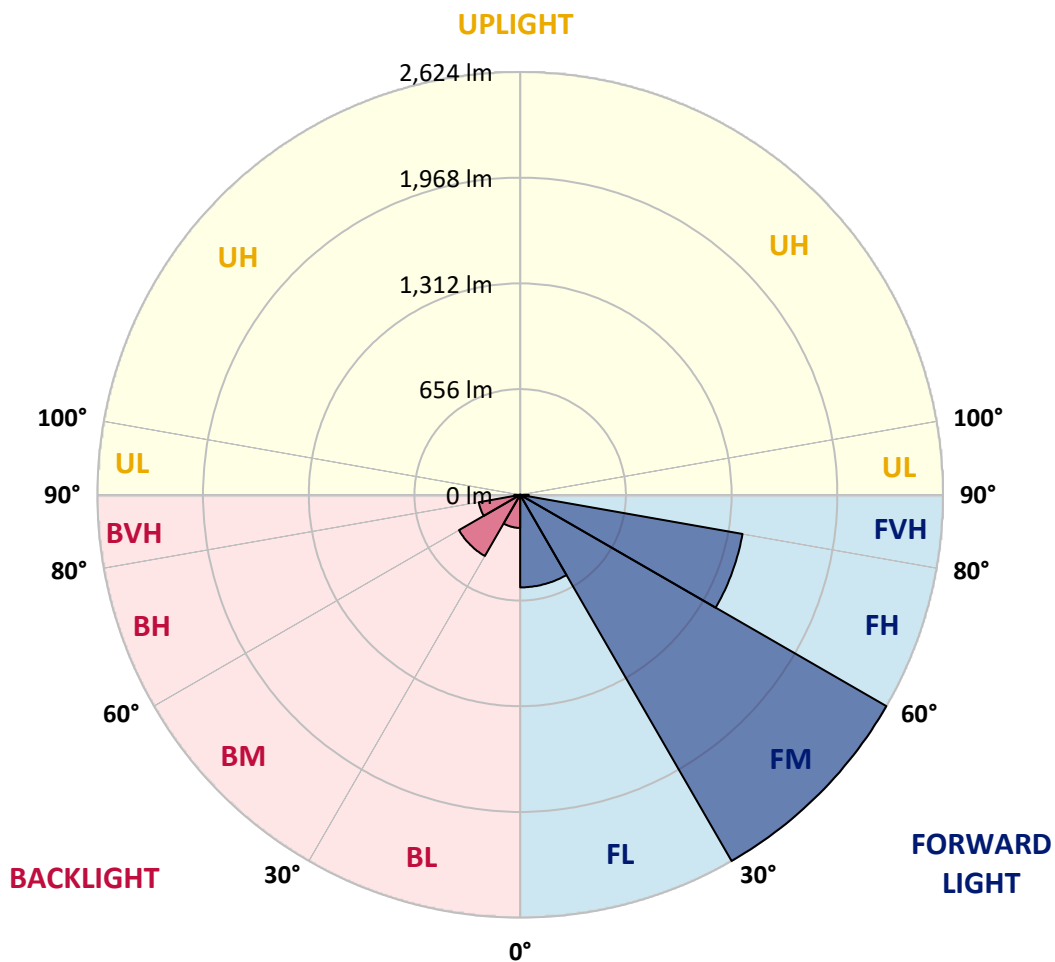
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.5	10.3			
FM	(30°-60°)	2624.0	46.9			
FH	(60°-80°)	1401.1	25.0			G1/1800
FVH	(80°-90°)	53.2	1.0			G1/100
BL	(0°-30°)	205.3	3.7	B1/500		
BM	(30°-60°)	438.3	7.8	B1/1000		
BH	(60°-80°)	260.8	4.7	B1/500		G1/500
BVH	(80°-90°)	36.9	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9
2.5°	678.2	667.9	667.0	652.0	648.5	619.9	598.8	576.8	551.7	546.8	527.0
5°	871.1	870.2	857.1	832.6	813.4	764.4	716.0	664.7	608.5	599.4	554.9
7.5°	1044.7	1043.2	1033.1	1006.7	979.0	918.8	849.7	771.0	679.9	666.4	592.7
10°	1176.5	1175.9	1172.5	1153.1	1129.6	1071.9	995.5	888.2	762.9	744.4	640.0
12.5°	1278.3	1279.4	1281.7	1274.9	1263.7	1214.5	1136.2	1012.4	851.4	833.1	692.6
15°	1347.2	1350.6	1362.4	1372.1	1378.0	1347.8	1272.0	1139.5	950.5	928.7	750.9
17.5°	1382.0	1385.8	1406.1	1435.3	1462.3	1459.3	1399.1	1260.6	1045.6	1024.6	813.6
20°	1412.0	1414.8	1437.6	1472.8	1520.4	1541.5	1507.7	1377.2	1149.9	1124.8	880.0
22.5°	1499.0	1502.6	1509.4	1529.3	1571.5	1610.2	1593.9	1487.6	1245.4	1222.1	943.1
25°	1666.8	1671.2	1656.4	1639.5	1647.5	1674.4	1677.5	1588.2	1342.3	1315.9	1010.9
27.5°	1869.1	1875.4	1850.1	1806.6	1768.6	1758.2	1754.6	1670.6	1434.8	1404.2	1077.9
30°	2067.2	2078.0	2045.1	1988.7	1919.0	1870.0	1833.8	1751.4	1525.9	1496.7	1141.2
32.5°	2260.7	2256.3	2208.7	2153.6	2071.9	2010.6	1922.8	1838.0	1628.5	1594.9	1204.0
35°	2393.2	2394.8	2350.5	2285.2	2207.3	2160.2	2042.1	1931.4	1733.1	1702.2	1275.4
37.5°	2506.1	2499.0	2448.9	2387.9	2320.9	2300.8	2181.7	2034.3	1846.5	1812.7	1351.4
40°	2543.7	2535.5	2502.6	2458.8	2405.0	2403.3	2335.7	2150.9	1974.7	1941.3	1437.1
42.5°	2520.9	2510.4	2496.9	2485.0	2468.5	2476.0	2480.4	2287.7	2115.6	2078.2	1536.2
45°	2436.7	2421.0	2430.5	2456.5	2492.4	2535.3	2611.1	2439.0	2273.4	2242.1	1652.6
47.5°	2307.4	2293.2	2322.8	2378.4	2476.0	2584.7	2734.7	2606.1	2461.8	2430.7	1818.4
50°	2125.5	2129.7	2172.0	2273.2	2420.8	2607.5	2887.0	2827.4	2735.7	2706.6	2044.6
52.5°	1826.9	1827.7	1947.0	2113.1	2322.8	2595.7	2971.5	3110.2	3109.6	3074.5	2259.9
55°	1549.7	1566.6	1661.0	1881.8	2164.0	2548.6	3030.6	3247.7	3355.1	3313.9	2460.7
57.5°	1278.9	1288.7	1378.2	1600.0	1937.5	2423.1	3091.2	3412.7	3638.1	3612.1	2710.2
60°	970.8	986.0	1078.5	1283.4	1647.7	2200.3	3096.9	3584.9	3976.3	3950.1	2988.8
62.5°	630.1	656.3	742.9	934.9	1297.1	1879.9	2964.7	3697.6	4296.9	4287.6	3236.1
65°	362.2	381.9	442.1	590.2	894.9	1477.7	2650.4	3654.3	4494.2	4488.9	3328.6
66°	295.9	308.2	354.4	461.3	738.4	1297.7	2467.7	3562.9	4513.8	4514.0	3317.9
67.5°	236.6	242.1	262.8	330.3	544.9	1028.6	2141.2	3361.4	4489.5	4496.1	3249.4
70°	195.8	198.6	205.1	221.4	297.4	620.2	1519.9	2837.8	4245.4	4250.6	2981.8
72.5°	175.7	177.4	179.8	182.1	209.9	346.6	928.3	2270.2	3722.2	3728.9	2574.0
75°	159.1	160.1	159.7	159.9	176.0	220.9	479.7	1694.9	3009.7	2996.4	1971.8
77.5°	139.8	140.7	138.8	139.2	155.7	169.8	238.7	1186.6	2031.1	1937.3	1111.0
80°	118.1	118.9	118.1	119.5	135.6	128.2	138.8	667.5	898.1	849.5	395.0
82.5°	89.3	92.5	94.8	100.1	111.7	91.2	92.9	260.0	273.5	260.4	121.2
85°	39.1	47.7	71.4	76.5	83.9	54.7	61.0	106.0	111.3	107.9	44.1
87.5°	10.3	11.2	35.3	44.4	46.5	24.7	31.7	48.2	50.9	48.2	14.6
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°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9
2.5°	516.6	507.3	490.5	475.7	464.5	456.9	449.3	445.5	443.3	441.0	441.4
5°	533.1	514.3	485.6	465.3	453.9	446.7	442.9	441.4	440.4	438.1	438.1
7.5°	558.0	531.4	491.9	471.0	462.1	456.5	454.3	453.5	452.4	449.7	450.1
10°	589.3	552.1	505.0	484.7	476.5	470.4	467.2	466.0	464.0	460.9	461.3
12.5°	626.1	577.7	522.3	501.0	491.1	482.9	477.6	474.4	470.8	466.8	467.0
15°	666.4	605.6	540.9	515.6	502.1	490.7	482.2	476.7	471.0	466.0	465.8
17.5°	707.2	632.6	555.1	523.6	505.4	490.3	478.8	470.2	463.2	457.1	456.5
20°	751.3	656.9	563.1	522.8	499.3	481.4	466.0	455.4	447.6	441.5	440.6
22.5°	796.1	679.7	564.4	515.0	485.8	464.0	447.8	436.0	428.1	421.8	419.5
25°	837.1	697.4	558.9	500.0	467.0	443.4	427.7	415.7	409.3	401.8	399.6
27.5°	874.5	709.7	547.9	480.9	445.9	422.7	407.9	397.7	390.6	384.9	383.0
30°	908.2	716.3	529.8	458.1	424.3	403.2	390.6	383.6	377.5	370.3	369.0
32.5°	940.1	716.3	506.7	433.2	402.8	385.9	378.5	374.1	367.3	360.3	358.4
35°	972.0	712.0	479.3	407.2	383.0	373.6	373.2	368.0	357.6	348.1	345.6
37.5°	1005.6	703.0	448.6	382.9	366.9	368.0	371.3	359.9	345.1	331.6	328.0
40°	1043.6	690.7	416.7	361.8	353.4	365.6	366.1	348.1	319.2	306.9	303.7
42.5°	1088.2	678.4	387.0	343.2	342.8	358.2	356.5	322.7	305.4	299.1	297.4
45°	1146.9	671.3	358.9	325.5	334.4	346.2	339.9	308.6	301.4	297.8	296.3
47.5°	1239.4	674.9	333.1	311.5	326.1	334.2	309.2	302.9	297.8	293.4	291.9
50°	1355.2	672.9	312.2	301.8	316.6	321.7	295.3	295.5	292.8	287.9	285.6
52.5°	1442.4	656.5	298.7	296.3	308.2	299.5	286.6	288.3	287.0	279.7	277.3
55°	1526.5	642.5	291.9	294.2	302.1	271.8	276.3	280.5	279.2	272.1	271.0
57.5°	1631.1	639.8	287.7	294.7	297.0	257.9	266.4	272.0	271.0	268.0	267.4
60°	1759.3	640.6	283.9	295.7	291.3	247.6	257.1	264.2	264.7	264.2	263.8
62.5°	1829.8	619.9	274.4	293.0	281.3	238.7	247.5	257.7	257.9	259.0	258.8
65°	1770.0	558.0	256.8	283.7	264.4	231.3	239.1	250.3	247.5	252.6	252.6
66°	1711.9	522.3	248.0	277.6	257.1	228.5	236.4	246.5	242.9	249.9	249.9
67.5°	1593.2	462.1	232.3	264.7	246.9	224.5	233.4	240.2	235.3	245.7	245.0
70°	1376.3	357.4	200.5	235.5	230.0	218.6	229.2	227.7	220.5	236.4	233.4
72.5°	1160.4	271.6	161.0	197.1	204.3	211.2	223.3	211.7	202.6	213.8	207.2
75°	900.4	204.2	127.2	153.3	172.6	199.6	216.3	193.3	180.2	179.1	175.5
77.5°	486.7	140.2	100.8	117.0	137.1	185.2	211.6	173.6	153.8	149.3	146.4
80°	192.8	91.2	73.3	88.7	95.9	164.3	200.2	150.6	126.9	122.3	117.9
82.5°	79.6	53.9	47.3	59.4	62.5	140.5	179.7	123.4	98.0	135.6	144.0
85°	34.2	29.6	28.1	30.8	35.3	98.6	143.0	94.2	105.8	94.4	75.0
87.5°	10.3	12.5	12.0	11.8	12.9	23.5	76.2	52.4	77.7	29.4	22.0
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)