

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: P320905

Luminaire Tested: **GAN-SA1A-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4558 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

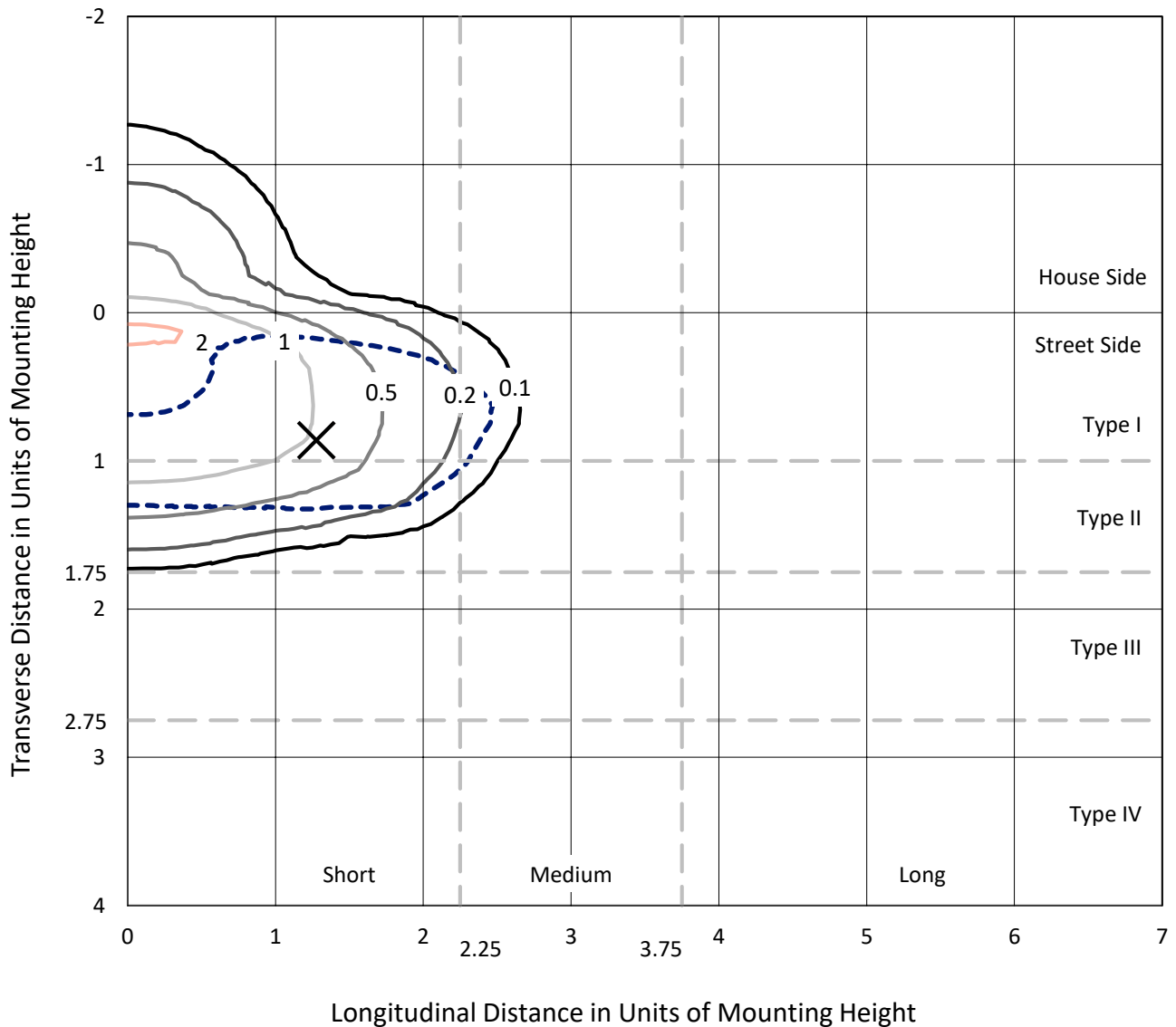
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

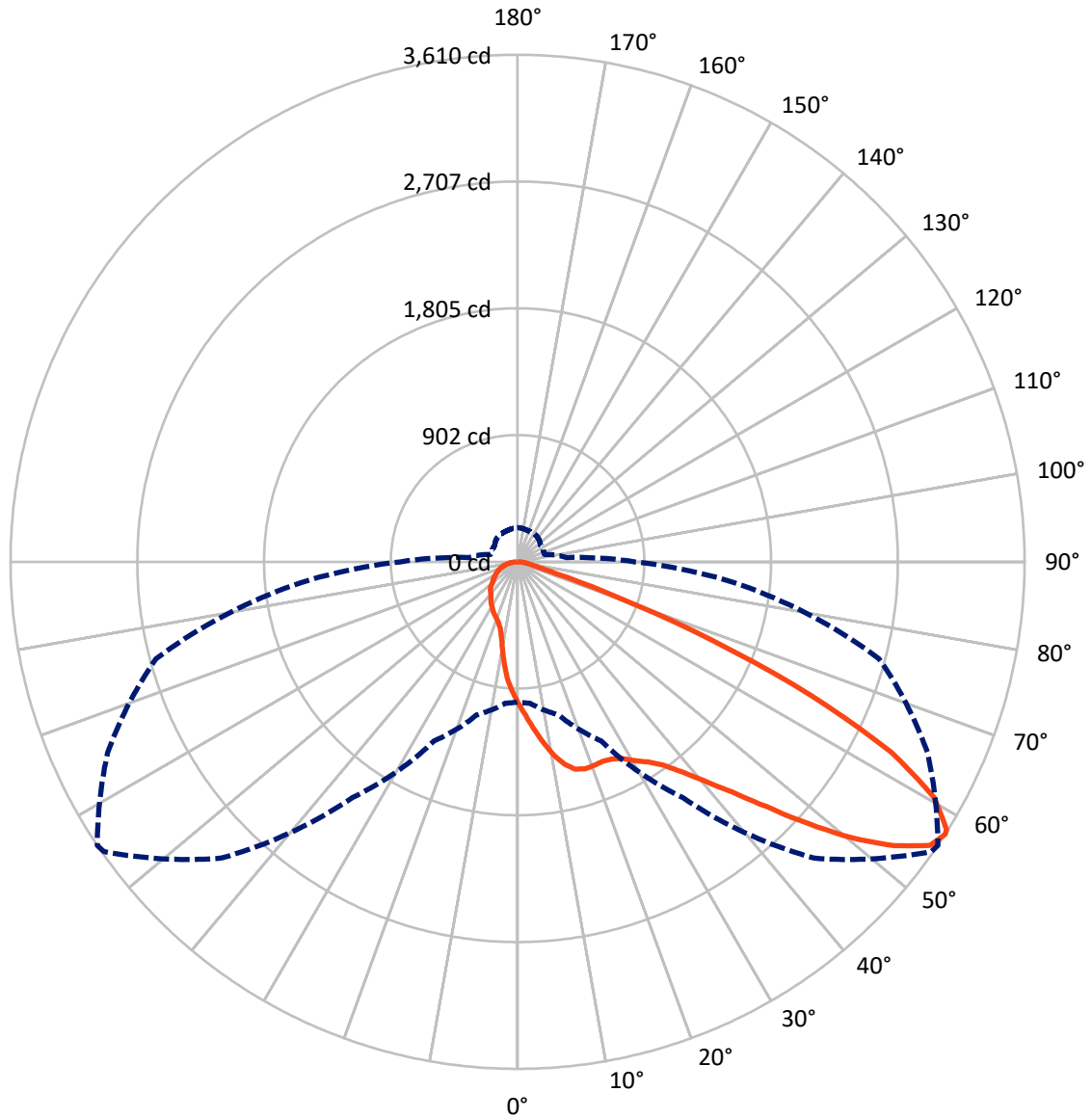
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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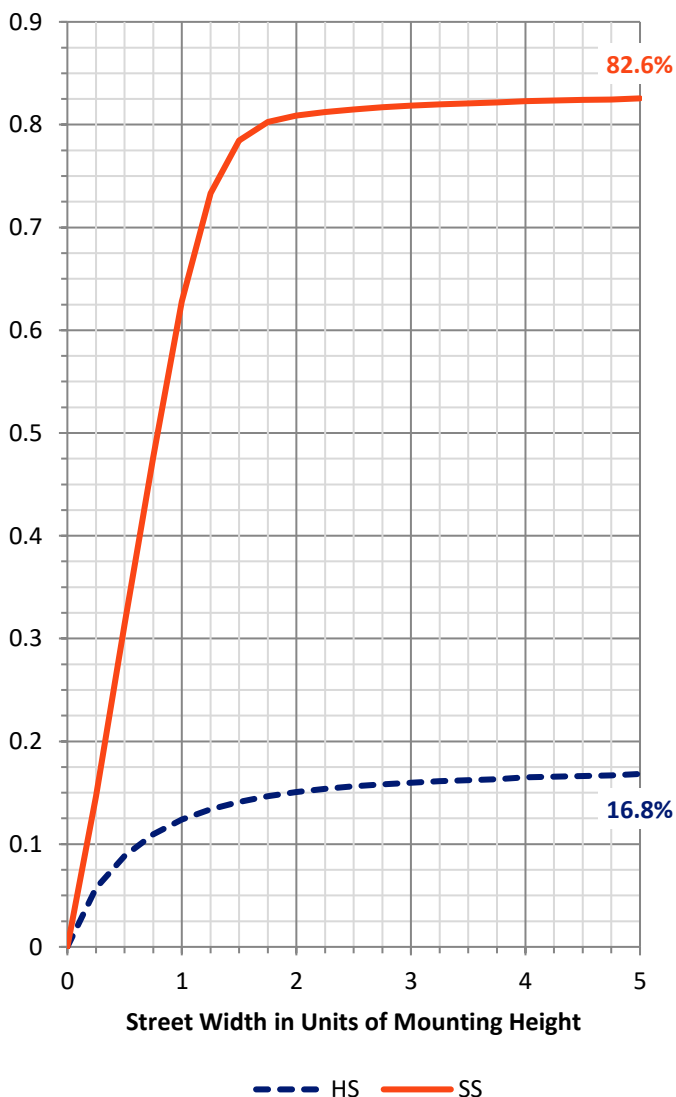
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	785.7	0.0	785.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3772.3	0.0	3772.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	4558.0	0.0	4558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	2.1
10°-20°	273.0	6.0
20°-30°	444.7	9.8
30°-40°	664.8	14.6
40°-50°	1008.4	22.1
50°-60°	1130.2	24.8
60°-70°	667.5	14.6
70°-80°	218.7	4.8
80°-90°	54.0	1.2
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°	4558.0	100.0
0°-180°	4558.0	100.0

Coefficient of Utilization



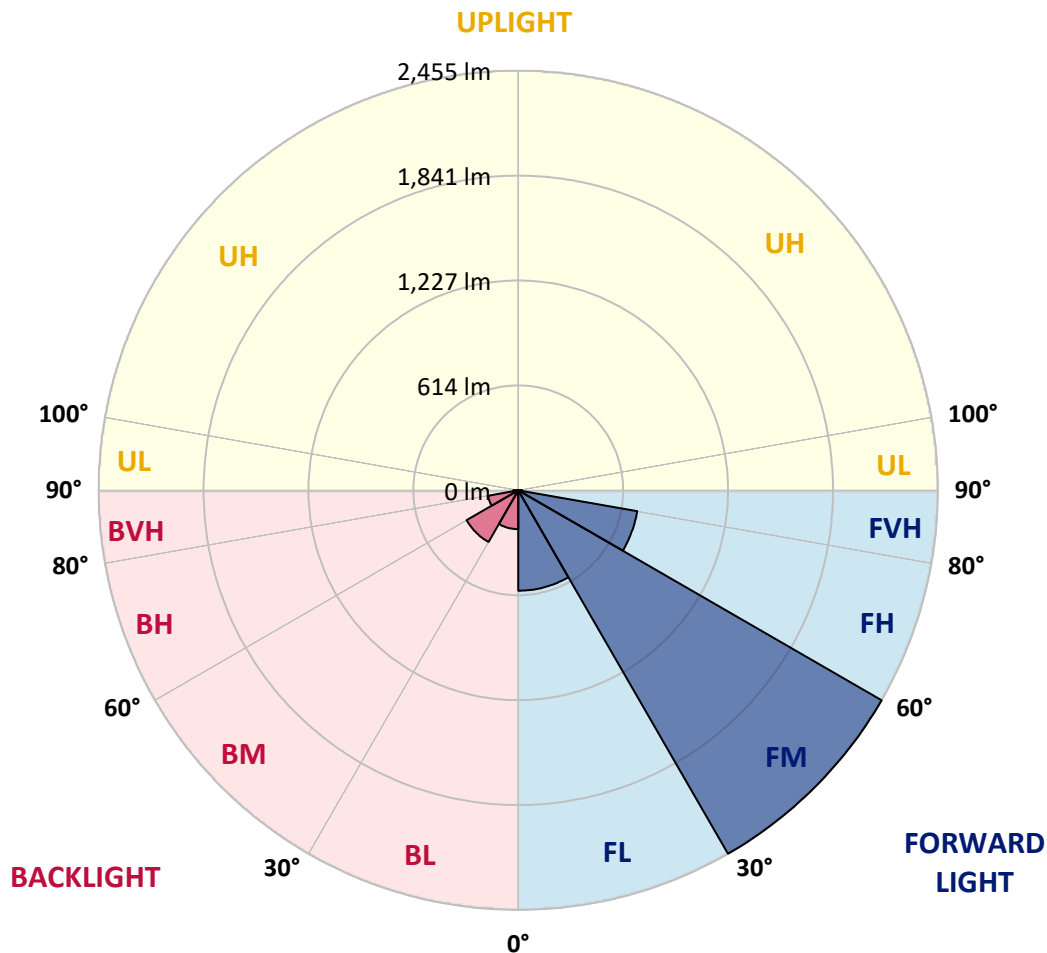
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.1	12.9			
FM (30°-60°)	2454.6	53.9			
FH (60°-80°)	706.7	15.5			G1/1800
FVH (80°-90°)	23.8	0.5			G1/100
BL (0°-30°)	227.2	5.0	B1/500		
BM (30°-60°)	348.7	7.7	B1/1000		
BH (60°-80°)	179.5	3.9	B1/500		G1/500
BVH (80°-90°)	30.2	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°	56°	65°	75°	85°
0°	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0
2.5°	1160.9	1171.5	1166.8	1150.5	1138.0	1120.3	1100.6	1094.6	1073.8	1050.4	1022.4
5°	1344.6	1339.3	1331.6	1306.2	1279.5	1248.3	1198.8	1191.0	1144.6	1091.8	1036.0
7.5°	1449.3	1448.8	1444.2	1429.4	1404.9	1364.2	1304.5	1295.3	1225.3	1140.4	1053.9
10°	1434.1	1433.0	1440.5	1456.0	1463.4	1454.9	1404.6	1395.4	1309.4	1194.1	1074.6
12.5°	1347.7	1348.4	1360.4	1393.0	1437.3	1490.6	1482.5	1477.9	1396.6	1254.9	1099.6
15°	1280.5	1282.0	1291.5	1319.9	1372.2	1468.8	1529.8	1531.3	1481.1	1321.9	1128.9
17.5°	1251.1	1254.1	1258.5	1278.4	1326.3	1425.4	1541.0	1549.5	1555.0	1391.5	1157.1
20°	1260.5	1263.3	1264.6	1277.3	1316.6	1399.1	1533.2	1548.4	1611.7	1456.9	1185.3
22.5°	1302.6	1304.4	1305.1	1308.4	1339.0	1406.6	1528.0	1544.0	1652.7	1515.7	1206.6
25°	1372.5	1371.2	1366.2	1362.0	1382.5	1436.4	1539.9	1555.1	1686.1	1568.9	1220.6
27.5°	1456.1	1454.6	1444.9	1433.3	1445.0	1482.8	1574.3	1586.3	1716.0	1618.7	1227.6
30°	1556.6	1552.5	1534.2	1520.4	1524.9	1552.3	1630.8	1641.8	1762.2	1675.3	1234.5
32.5°	1672.6	1668.2	1641.8	1618.9	1618.9	1641.8	1689.1	1698.2	1801.4	1739.2	1245.6
35°	1818.0	1812.5	1778.0	1739.7	1728.9	1740.5	1768.5	1774.9	1871.9	1819.7	1265.8
37.5°	1989.4	1982.0	1937.4	1886.0	1862.3	1861.7	1881.9	1895.1	1984.5	1925.4	1300.1
40°	2161.2	2156.0	2117.0	2076.6	2030.2	2015.4	2046.5	2050.6	2131.7	2056.7	1344.0
42.5°	2294.0	2293.1	2285.9	2291.2	2243.7	2213.7	2238.1	2241.4	2311.6	2198.8	1390.7
45°	2364.2	2365.8	2400.7	2478.1	2495.6	2473.7	2485.8	2486.7	2517.1	2342.1	1433.4
47.5°	2308.0	2316.1	2404.5	2577.5	2721.2	2794.0	2774.0	2785.6	2716.3	2465.2	1467.0
50°	2088.8	2098.8	2249.2	2533.2	2826.5	3104.0	3093.5	3090.9	2877.0	2555.5	1485.1
52.5°	1817.4	1825.2	1949.3	2302.8	2749.2	3275.4	3371.7	3357.9	3019.9	2623.0	1488.6
55°	1404.0	1416.2	1535.1	1842.9	2436.9	3209.9	3576.3	3563.9	3150.1	2658.4	1484.5
57°	998.1	1011.0	1129.1	1406.5	2050.0	2983.3	3596.7	3609.8	3220.4	2664.3	1489.0
57.5°	890.7	903.8	1020.8	1290.3	1929.4	2901.3	3579.1	3601.0	3233.1	2663.4	1491.5
60°	448.5	453.5	528.0	720.2	1219.6	2345.6	3350.3	3406.8	3244.5	2617.3	1502.4
62.5°	278.8	275.2	272.9	331.8	593.4	1555.5	2878.0	2986.9	3025.7	2505.8	1476.2
65°	245.1	238.4	212.6	207.9	262.1	755.5	2167.3	2302.8	2558.1	2330.1	1413.9
67.5°	230.3	223.7	194.5	177.0	177.2	299.5	1345.6	1498.1	1992.8	2032.9	1266.8
70°	214.9	209.0	181.7	161.0	150.8	165.9	619.0	734.8	1299.0	1597.9	1058.7
72.5°	195.2	191.1	165.3	144.0	133.1	124.2	237.0	279.9	752.0	1073.2	735.3
75°	174.5	170.7	148.7	128.3	115.1	97.7	133.5	143.8	382.1	549.0	362.0
77.5°	151.8	149.6	132.2	113.4	102.9	81.0	94.5	99.5	163.8	235.4	181.5
80°	120.8	125.0	115.6	101.0	91.3	64.8	66.9	70.2	95.4	115.0	103.1
82.5°	78.6	86.0	90.5	82.1	75.2	51.1	48.1	49.5	62.2	70.2	44.8
85°	32.7	36.8	59.5	53.7	50.0	37.3	32.3	32.9	38.5	39.9	18.3
87.5°	14.6	15.5	26.2	24.6	21.1	12.8	13.8	15.0	20.5	19.4	7.0
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°	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0
2.5°	1011.9	998.8	976.2	951.3	930.9	914.6	898.2	886.9	873.8	866.7	863.1
5°	1012.7	986.8	939.4	890.7	847.1	807.3	769.4	740.3	713.0	698.3	694.2
7.5°	1016.0	977.1	900.4	820.2	742.8	672.2	617.6	583.5	558.9	547.9	544.8
10°	1018.6	965.7	852.1	733.4	628.1	556.5	514.3	495.1	486.7	485.3	483.9
12.5°	1024.9	954.0	801.4	642.9	539.0	489.5	474.8	473.5	475.9	479.3	479.3
15°	1034.8	942.4	743.4	565.2	482.3	464.9	467.9	474.8	481.2	486.5	487.3
17.5°	1042.0	928.1	681.1	503.0	452.1	456.8	467.4	477.1	483.7	488.9	489.4
20°	1047.2	906.0	614.5	455.5	434.7	449.2	462.6	471.2	475.7	480.9	481.7
22.5°	1044.5	876.4	555.5	421.5	420.6	438.3	451.0	461.3	457.9	452.9	456.1
25°	1031.6	835.7	494.7	396.1	405.7	423.6	439.2	432.3	420.7	418.5	419.8
27.5°	1008.8	783.7	438.4	372.7	388.5	409.9	409.0	402.1	398.0	395.2	396.9
30°	984.2	727.3	389.3	352.1	369.4	387.1	383.5	383.3	379.2	374.7	376.9
32.5°	959.9	670.6	350.3	335.2	355.0	357.3	365.1	367.5	359.5	349.9	349.3
35°	938.8	617.0	320.6	319.9	337.6	337.9	349.3	346.0	326.1	316.3	316.3
37.5°	922.9	563.6	298.1	306.1	314.7	322.8	328.6	315.0	311.7	306.2	306.1
40°	916.0	516.6	284.0	295.6	298.6	308.9	294.0	299.3	300.9	298.1	298.1
42.5°	908.8	475.7	271.8	287.6	287.1	285.7	278.2	285.1	291.4	291.5	291.0
45°	901.6	440.5	261.0	270.5	277.1	261.9	263.3	270.7	279.4	282.6	282.6
47.5°	893.6	412.6	251.1	252.5	262.7	252.5	251.4	257.0	267.4	272.4	273.5
50°	876.1	387.5	239.8	236.7	239.5	243.0	243.9	246.6	258.0	266.0	267.9
52.5°	851.8	365.1	225.4	222.1	222.1	235.1	239.5	240.3	250.0	259.6	261.4
55°	831.6	350.9	210.5	209.9	209.3	226.8	234.3	235.6	242.3	249.8	250.8
57°	833.0	349.8	199.1	199.7	199.6	218.4	229.5	232.1	235.6	242.0	243.1
57.5°	833.8	350.6	196.6	196.9	196.7	216.0	228.1	231.0	233.7	240.4	241.5
60°	845.6	352.6	186.4	183.0	183.7	203.5	220.1	223.8	225.6	234.5	235.9
62.5°	828.2	343.5	178.3	170.0	170.0	190.3	209.0	214.9	217.6	229.6	232.0
65°	777.7	318.0	168.7	155.2	156.8	177.2	195.6	205.4	209.4	224.5	227.0
67.5°	699.9	288.4	158.5	142.1	143.6	163.4	181.9	192.4	198.8	218.8	220.9
70°	598.5	252.2	144.7	128.1	130.0	148.3	165.6	177.5	187.0	213.5	214.1
72.5°	441.3	206.8	125.5	112.8	114.8	130.8	149.1	162.9	175.8	200.2	199.9
75°	262.4	161.7	104.2	97.3	98.7	113.6	134.2	151.0	170.3	195.0	198.0
77.5°	159.1	121.7	84.9	81.5	83.2	98.4	123.6	141.4	167.9	183.9	183.0
80°	96.2	86.9	67.8	65.6	67.4	84.1	114.3	134.2	146.8	157.1	157.1
82.5°	50.3	53.1	49.8	48.1	50.4	68.3	104.0	117.2	129.7	111.4	104.0
85°	20.5	27.7	30.2	30.1	31.5	47.3	89.8	100.3	83.6	79.4	81.3
87.5°	6.9	11.7	14.7	12.7	13.3	29.8	62.2	48.4	57.5	40.1	38.1
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)