

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: P320915

Luminaire Tested: **GAN-SA1B-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320915
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-SA1B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5590 lumens
Efficiency: N/A
Efficacy: 127.0 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

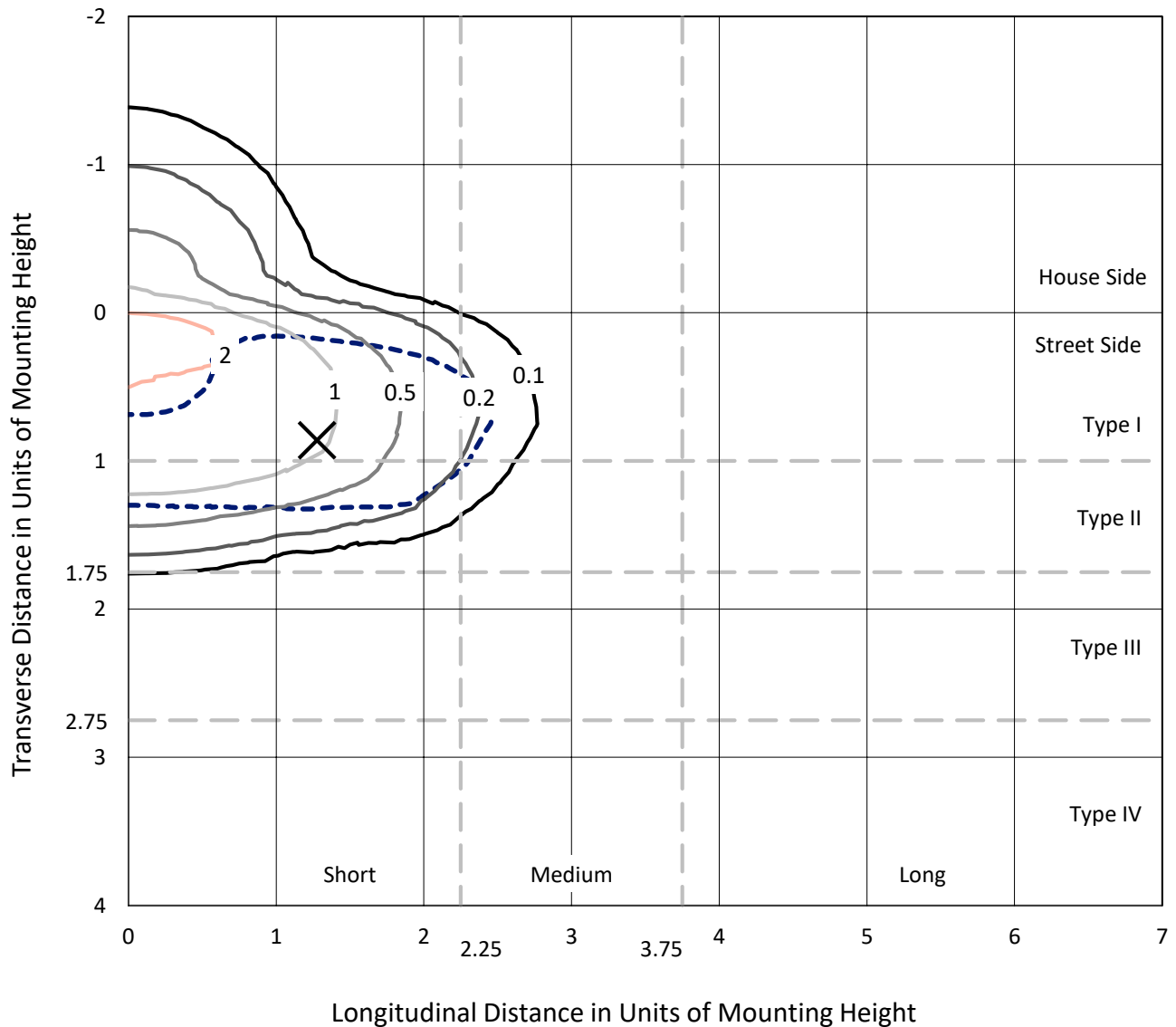
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

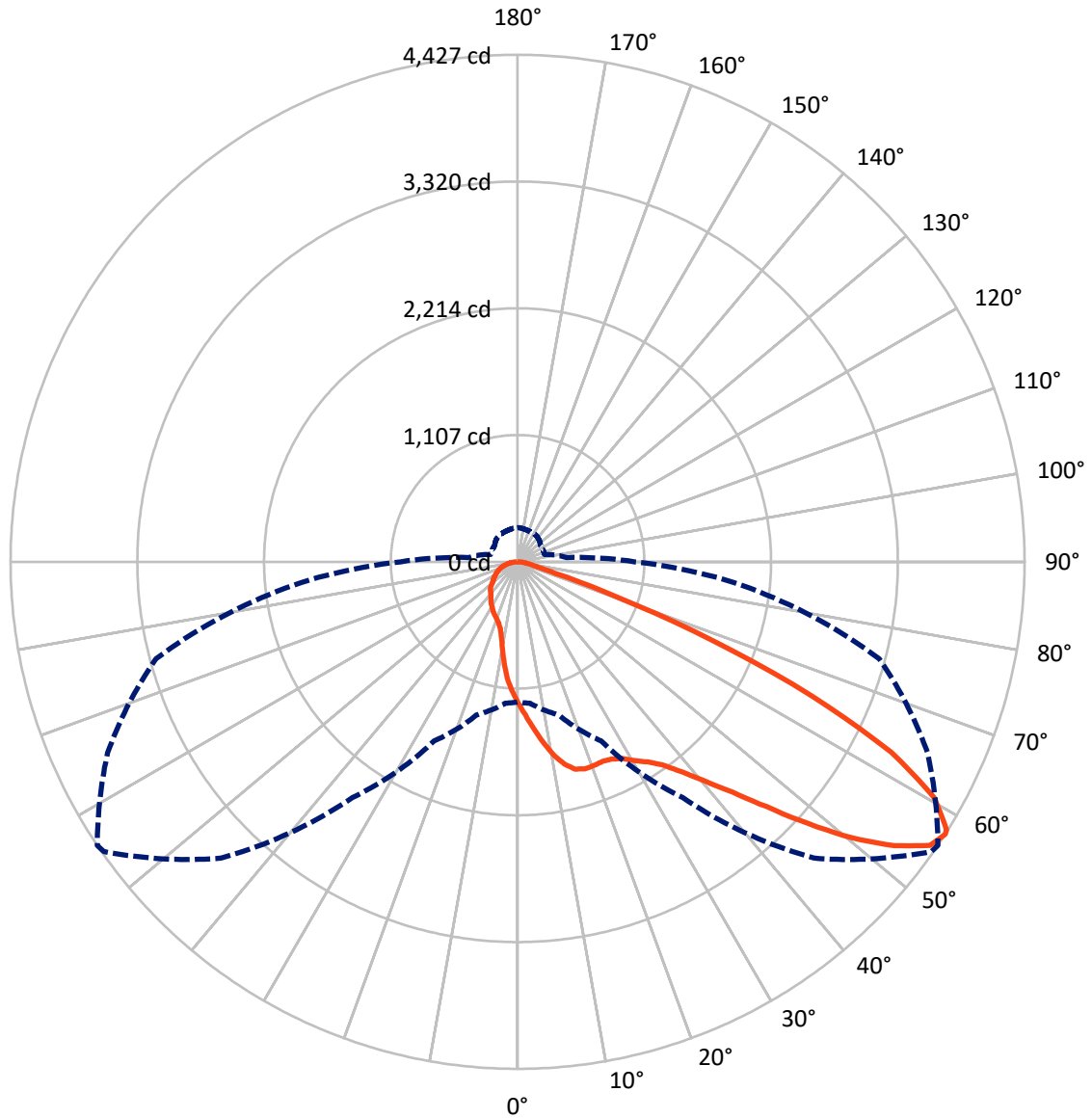
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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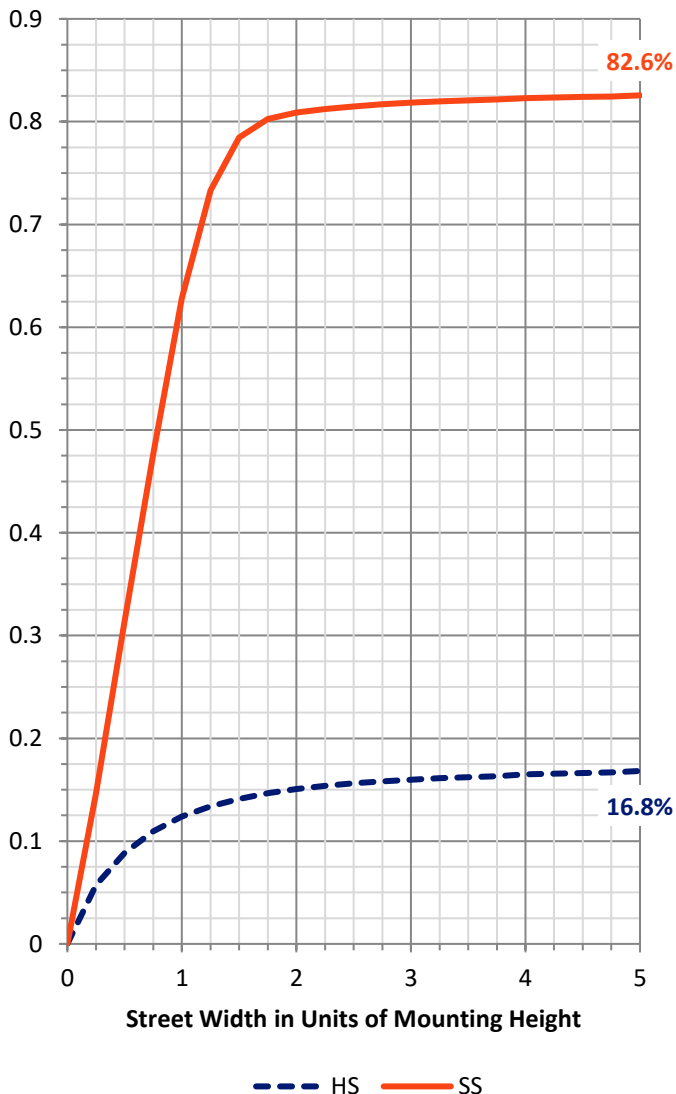
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	963.6	0.0	963.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4626.4	0.0	4626.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	5590.0	0.0	5590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	2.1
10°-20°	334.9	6.0
20°-30°	545.4	9.8
30°-40°	815.3	14.6
40°-50°	1236.7	22.1
50°-60°	1386.1	24.8
60°-70°	818.7	14.6
70°-80°	268.2	4.8
80°-90°	66.3	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°	5590.0	100.0
0°-180°	5590.0	100.0

Coefficient of Utilization

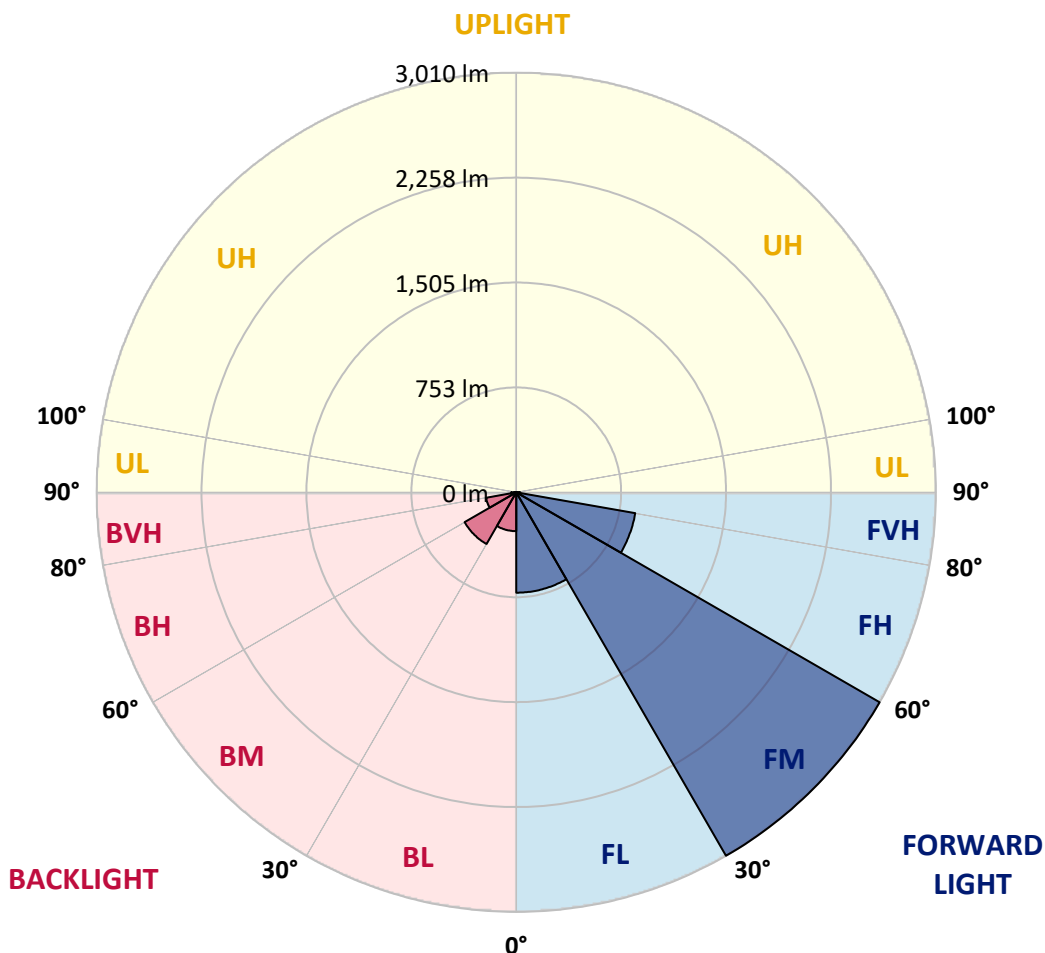


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.1	12.9			
FM (30°-60°)	3010.4	53.9			
FH (60°-80°)	866.7	15.5			G1/1800
FVH (80°-90°)	29.2	0.5			G1/100
BL (0°-30°)	278.6	5.0	B1/500		
BM (30°-60°)	427.7	7.7	B1/1000		
BH (60°-80°)	220.2	3.9	B1/500		G1/500
BVH (80°-90°)	37.1	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°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1423.7	1436.8	1431.0	1411.0	1395.7	1374.0	1349.8	1342.5	1316.9	1288.3	1253.9
5°	1649.1	1642.5	1633.1	1602.0	1569.1	1530.9	1470.2	1460.6	1403.7	1339.0	1270.6
7.5°	1777.4	1776.8	1771.2	1753.0	1723.0	1673.1	1599.9	1588.5	1502.7	1398.5	1292.5
10°	1758.8	1757.4	1766.6	1785.6	1794.7	1784.3	1722.6	1711.3	1605.8	1464.4	1317.9
12.5°	1652.9	1653.7	1668.5	1708.4	1762.8	1828.1	1818.1	1812.5	1712.8	1539.0	1348.6
15°	1570.5	1572.2	1583.9	1618.7	1682.9	1801.4	1876.1	1878.1	1816.4	1621.2	1384.5
17.5°	1534.4	1538.0	1543.4	1567.8	1626.6	1748.2	1890.0	1900.3	1907.1	1706.5	1419.1
20°	1545.9	1549.4	1550.9	1566.5	1614.7	1715.9	1880.4	1899.0	1976.6	1786.8	1453.7
22.5°	1597.6	1599.7	1600.6	1604.7	1642.1	1725.1	1874.0	1893.6	2026.9	1858.8	1479.8
25°	1683.3	1681.7	1675.6	1670.4	1695.5	1761.6	1888.6	1907.3	2067.9	1924.2	1496.9
27.5°	1785.8	1783.9	1772.0	1757.8	1772.2	1818.5	1930.7	1945.5	2104.5	1985.2	1505.6
30°	1909.0	1904.0	1881.5	1864.6	1870.2	1903.8	2000.0	2013.5	2161.2	2054.6	1514.0
32.5°	2051.3	2046.0	2013.5	1985.4	1985.4	2013.5	2071.5	2082.6	2209.2	2133.0	1527.6
35°	2229.6	2222.9	2180.6	2133.6	2120.3	2134.5	2168.9	2176.8	2295.7	2231.7	1552.4
37.5°	2439.8	2430.7	2376.0	2313.0	2284.0	2283.2	2308.0	2324.1	2433.8	2361.4	1594.5
40°	2650.5	2644.2	2596.3	2546.8	2489.9	2471.7	2509.9	2514.9	2614.4	2522.4	1648.3
42.5°	2813.4	2812.3	2803.4	2810.0	2751.8	2714.9	2744.8	2748.9	2834.9	2696.6	1705.5
45°	2899.5	2901.4	2944.3	3039.2	3060.7	3033.8	3048.6	3049.7	3087.0	2872.4	1758.0
47.5°	2830.5	2840.5	2948.9	3161.1	3337.3	3426.6	3402.0	3416.3	3331.4	3023.4	1799.1
50°	2561.8	2574.1	2758.5	3106.8	3466.4	3806.8	3793.9	3790.7	3528.5	3134.1	1821.4
52.5°	2228.8	2238.4	2390.6	2824.2	3371.7	4017.0	4135.1	4118.2	3703.7	3216.9	1825.6
55°	1721.9	1736.9	1882.7	2260.2	2988.6	3936.7	4386.0	4370.8	3863.3	3260.3	1820.6
57°	1224.1	1239.9	1384.7	1724.9	2514.1	3658.7	4411.0	4427.1	3949.6	3267.6	1826.2
57.5°	1092.3	1108.5	1252.0	1582.4	2366.2	3558.2	4389.5	4416.4	3965.1	3266.4	1829.3
60°	550.0	556.2	647.6	883.3	1495.8	2876.6	4108.8	4178.2	3979.1	3209.9	1842.5
62.5°	342.0	337.5	334.7	406.9	727.7	1907.6	3529.6	3663.1	3710.8	3073.2	1810.4
65°	300.6	292.4	260.7	254.9	321.4	926.5	2658.0	2824.2	3137.3	2857.6	1734.0
67.5°	282.4	274.3	238.6	217.1	217.3	367.3	1650.2	1837.3	2444.0	2493.2	1553.6
70°	263.6	256.3	222.8	197.5	185.0	203.4	759.2	901.2	1593.2	1959.7	1298.5
72.5°	239.4	234.4	202.7	176.5	163.3	152.3	290.7	343.3	922.3	1316.1	901.8
75°	214.0	209.4	182.3	157.3	141.2	119.9	163.7	176.4	468.6	673.3	444.0
77.5°	186.2	183.5	162.1	139.1	126.2	99.3	115.8	122.0	200.9	288.7	222.7
80°	148.1	153.3	141.8	123.9	112.0	79.5	82.0	86.1	117.0	141.0	126.4
82.5°	96.4	105.5	111.0	100.7	92.2	62.6	59.0	60.7	76.3	86.1	54.9
85°	40.2	45.1	73.0	65.9	61.3	45.7	39.6	40.3	47.3	49.0	22.5
87.5°	17.9	19.0	32.1	30.2	25.9	15.8	16.9	18.4	25.2	23.8	8.6
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°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1241.0	1224.9	1197.2	1166.7	1141.7	1121.7	1101.5	1087.7	1071.6	1062.9	1058.5
5°	1242.0	1210.3	1152.1	1092.3	1038.9	990.1	943.6	907.9	874.5	856.4	851.4
7.5°	1246.0	1198.4	1104.2	1005.9	911.0	824.3	757.5	715.6	685.4	672.0	668.2
10°	1249.3	1184.3	1045.1	899.5	770.4	682.6	630.7	607.3	596.9	595.2	593.4
12.5°	1257.0	1169.9	982.8	788.4	661.0	600.3	582.3	580.7	583.6	587.9	587.9
15°	1269.1	1155.7	911.7	693.1	591.5	570.2	573.8	582.3	590.2	596.7	597.6
17.5°	1277.9	1138.2	835.3	616.9	554.4	560.2	573.3	585.2	593.2	599.6	600.1
20°	1284.2	1111.2	753.6	558.7	533.1	551.0	567.3	577.9	583.4	589.8	590.7
22.5°	1281.0	1074.8	681.2	517.0	515.8	537.5	553.1	565.8	561.5	555.4	559.4
25°	1265.2	1024.9	606.7	485.8	497.6	519.5	538.7	530.2	516.0	513.3	514.9
27.5°	1237.2	961.1	537.7	457.0	476.4	502.7	501.6	493.1	488.1	484.7	486.8
30°	1207.0	892.0	477.4	431.9	453.0	474.7	470.3	470.1	465.1	459.5	462.2
32.5°	1177.2	822.4	429.6	411.1	435.3	438.2	447.8	450.7	440.9	429.2	428.4
35°	1151.3	756.7	393.2	392.3	414.0	414.4	428.4	424.4	400.0	387.9	387.9
37.5°	1131.9	691.2	365.6	375.4	385.9	395.9	403.0	386.3	382.3	375.6	375.4
40°	1123.4	633.6	348.3	362.5	366.2	378.8	360.6	367.1	369.0	365.6	365.6
42.5°	1114.6	583.4	333.3	352.7	352.1	350.4	341.2	349.6	357.3	357.5	356.9
45°	1105.8	540.2	320.1	331.8	339.8	321.2	322.9	332.0	342.7	346.6	346.6
47.5°	1096.0	506.0	307.9	309.7	322.2	309.7	308.3	315.2	327.9	334.1	335.4
50°	1074.5	475.3	294.1	290.3	293.7	298.0	299.1	302.4	316.4	326.2	328.5
52.5°	1044.7	447.8	276.4	272.4	272.4	288.4	293.7	294.7	306.6	318.3	320.6
55°	1019.9	430.3	258.2	257.4	256.7	278.2	287.4	288.9	297.2	306.4	307.6
57°	1021.6	429.0	244.2	244.9	244.7	267.8	281.4	284.7	288.9	296.8	298.2
57.5°	1022.6	429.9	241.1	241.5	241.3	264.9	279.7	283.4	286.6	294.9	296.2
60°	1037.0	432.4	228.6	224.4	225.3	249.5	269.9	274.5	276.6	287.6	289.3
62.5°	1015.7	421.3	218.6	208.4	208.4	233.4	256.3	263.6	266.8	281.6	284.5
65°	953.8	390.0	206.9	190.4	192.3	217.3	239.9	251.9	256.8	275.3	278.4
67.5°	858.3	353.7	194.4	174.2	176.2	200.4	223.0	235.9	243.8	268.4	270.9
70°	734.0	309.3	177.5	157.1	159.4	181.9	203.1	217.7	229.4	261.8	262.6
72.5°	541.2	253.6	153.9	138.3	140.8	160.4	182.9	199.8	215.5	245.5	245.1
75°	321.8	198.3	127.8	119.3	121.0	139.3	164.6	185.2	208.8	239.2	242.8
77.5°	195.2	149.3	104.1	99.9	102.0	120.6	151.6	173.5	205.9	225.5	224.4
80°	118.0	106.6	83.2	80.5	82.6	103.2	140.2	164.6	180.0	192.7	192.7
82.5°	61.7	65.1	61.1	59.0	61.9	83.8	127.6	143.7	159.1	136.6	127.6
85°	25.2	34.0	37.1	36.9	38.6	58.0	110.1	122.9	102.6	97.4	99.7
87.5°	8.5	14.4	18.1	15.6	16.3	36.5	76.3	59.4	70.5	49.2	46.7
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)