

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: P320955

Luminaire Tested: **GAN-SA1B-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320955
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-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139 lumens
Efficiency: N/A
Efficacy: 139.5 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

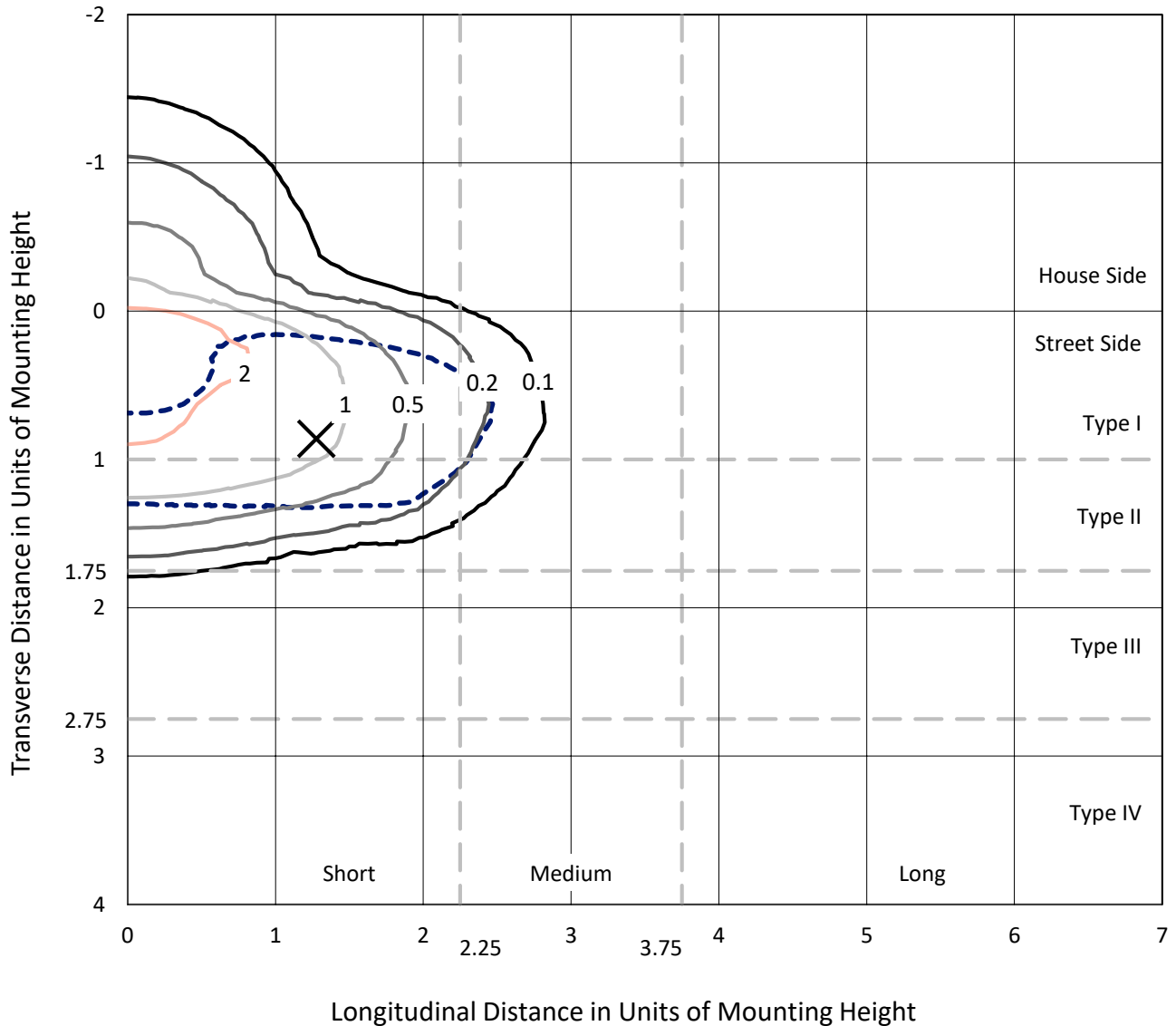
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

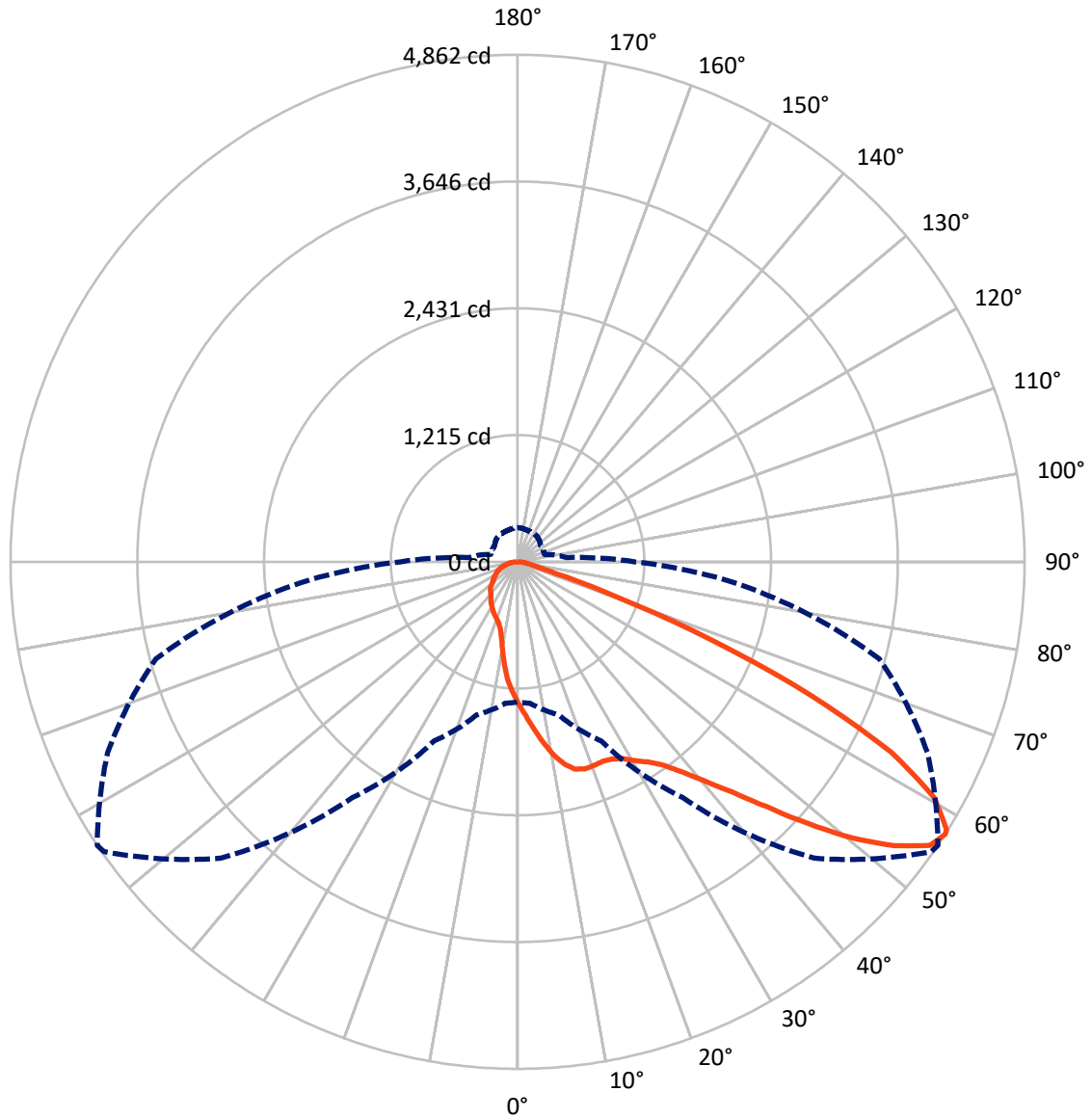
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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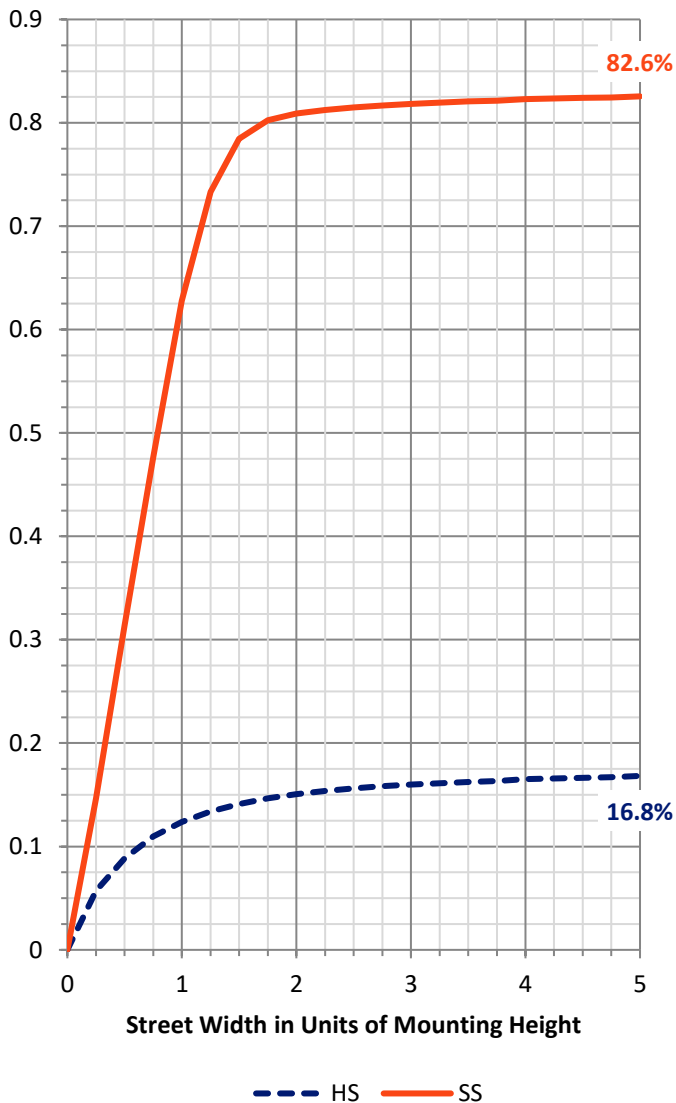
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1058.2	0.0	1058.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5080.8	0.0	5080.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	6139.0	0.0	6139.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.1
10°-20°	367.7	6.0
20°-30°	599.0	9.8
30°-40°	895.4	14.6
40°-50°	1358.1	22.1
50°-60°	1522.2	24.8
60°-70°	899.1	14.6
70°-80°	294.6	4.8
80°-90°	72.8	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°	6139.0	100.0
0°-180°	6139.0	100.0

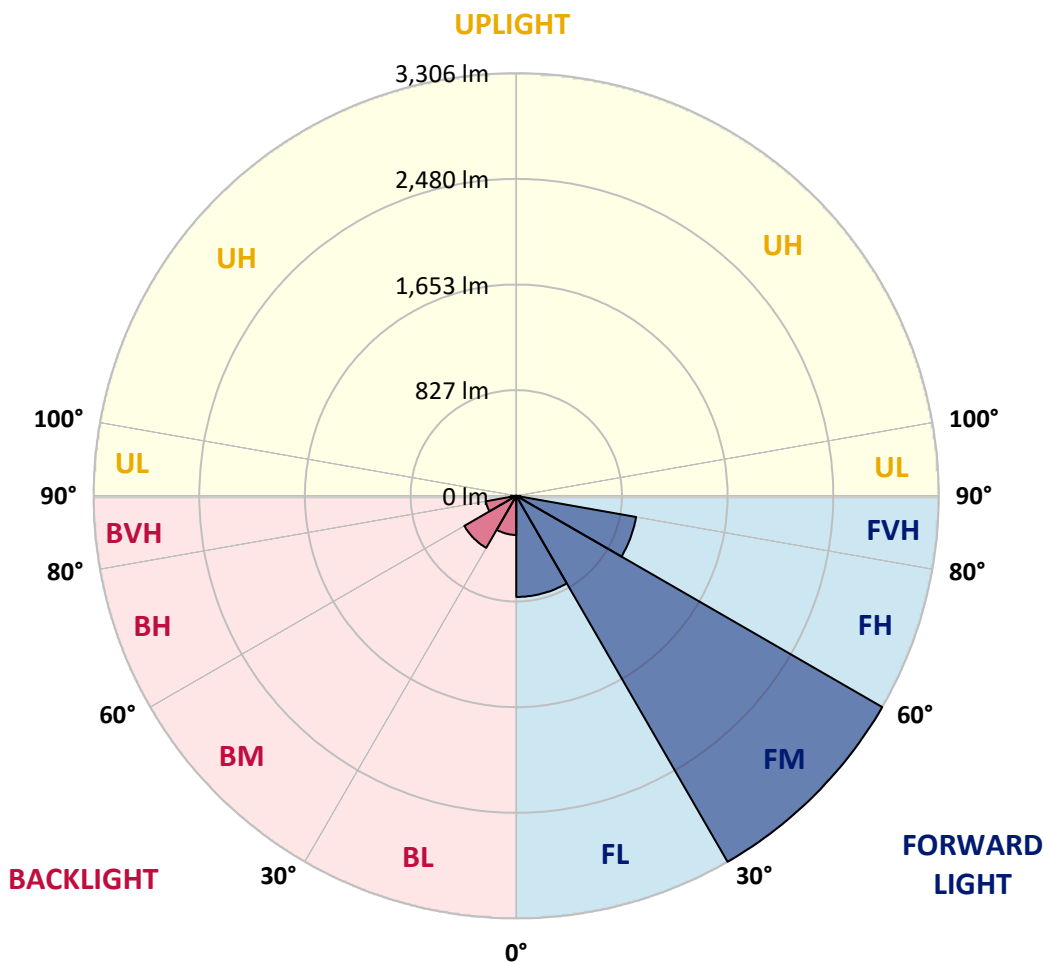


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.8	12.9			
FM (30°-60°)	3306.1	53.9			
FH (60°-80°)	951.9	15.5			G1/1800
FVH (80°-90°)	32.0	0.5			G1/100
BL (0°-30°)	306.0	5.0	B1/500		
BM (30°-60°)	469.7	7.7	B1/1000		
BH (60°-80°)	241.8	3.9	B1/500		G1/500
BVH (80°-90°)	40.7	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°	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1563.5	1577.9	1571.6	1549.6	1532.7	1508.9	1482.3	1474.3	1446.2	1414.8	1377.0
5°	1811.0	1803.8	1793.5	1759.3	1723.2	1681.3	1614.6	1604.0	1541.6	1470.5	1395.4
7.5°	1951.9	1951.3	1945.2	1925.2	1892.2	1837.4	1757.0	1744.6	1650.3	1535.9	1419.4
10°	1931.5	1930.0	1940.1	1961.0	1970.9	1959.5	1891.8	1879.4	1763.5	1608.3	1447.3
12.5°	1815.2	1816.1	1832.3	1876.2	1935.9	2007.6	1996.7	1990.6	1881.1	1690.1	1481.0
15°	1724.7	1726.6	1739.5	1777.7	1848.1	1978.3	2060.4	2062.5	1994.8	1780.4	1520.5
17.5°	1685.1	1689.1	1695.0	1721.8	1786.3	1919.9	2075.6	2087.0	2094.4	1874.1	1558.5
20°	1697.7	1701.5	1703.2	1720.3	1773.2	1884.4	2065.0	2085.5	2170.7	1962.3	1596.5
22.5°	1754.5	1756.8	1757.8	1762.3	1803.4	1894.6	2058.1	2079.6	2226.0	2041.4	1625.1
25°	1848.6	1846.9	1840.1	1834.4	1862.1	1934.6	2074.1	2094.6	2270.9	2113.1	1643.9
27.5°	1961.2	1959.1	1946.0	1930.4	1946.2	1997.1	2120.3	2136.5	2311.2	2180.2	1653.4
30°	2096.5	2091.0	2066.3	2047.7	2053.8	2090.8	2196.5	2211.2	2373.5	2256.4	1662.7
32.5°	2252.8	2246.9	2211.2	2180.4	2180.4	2211.2	2274.9	2287.2	2426.2	2342.5	1677.7
35°	2448.6	2441.2	2394.8	2343.1	2328.5	2344.1	2381.9	2390.6	2521.2	2450.9	1704.9
37.5°	2679.4	2669.5	2609.3	2540.1	2508.3	2507.4	2534.7	2552.4	2672.8	2593.3	1751.1
40°	2910.8	2903.9	2851.3	2796.9	2734.5	2714.4	2756.4	2761.9	2871.2	2770.1	1810.2
42.5°	3089.7	3088.5	3078.8	3085.9	3022.0	2981.5	3014.4	3018.8	3113.4	2961.5	1873.0
45°	3184.3	3186.4	3233.4	3337.6	3361.3	3331.7	3348.0	3349.2	3390.2	3154.5	1930.6
47.5°	3108.5	3119.5	3238.5	3471.6	3665.1	3763.2	3736.2	3751.8	3658.5	3320.3	1975.8
50°	2813.4	2826.9	3029.4	3411.9	3806.8	4180.7	4166.6	4163.0	3875.0	3441.9	2000.3
52.5°	2447.7	2458.3	2625.4	3101.6	3702.8	4411.5	4541.2	4522.7	4067.4	3532.8	2004.9
55°	1891.0	1907.4	2067.6	2482.1	3282.1	4323.3	4816.8	4800.1	4242.7	3580.5	1999.4
57°	1344.3	1361.6	1520.7	1894.3	2761.0	4018.0	4844.2	4861.9	4337.4	3588.5	2005.5
57.5°	1199.6	1217.3	1374.9	1737.8	2598.6	3907.7	4820.6	4850.1	4354.5	3587.2	2008.9
60°	604.0	610.8	711.2	970.1	1642.7	3159.1	4512.3	4588.5	4369.9	3525.2	2023.5
62.5°	375.5	370.7	367.5	446.8	799.2	2095.0	3876.3	4022.9	4075.2	3375.0	1988.2
65°	330.2	321.1	286.3	280.0	353.0	1017.5	2919.1	3101.6	3445.4	3138.3	1904.3
67.5°	310.1	301.3	262.0	238.4	238.6	403.4	1812.3	2017.8	2684.0	2738.0	1706.2
70°	289.5	281.4	244.7	216.9	203.2	223.4	833.8	989.7	1749.6	2152.2	1426.0
72.5°	262.9	257.4	222.6	193.9	179.3	167.3	319.2	377.0	1012.9	1445.4	990.3
75°	235.0	230.0	200.2	172.8	155.1	131.6	179.8	193.7	514.6	739.5	487.6
77.5°	204.4	201.5	178.1	152.7	138.6	109.1	127.2	134.0	220.7	317.1	244.5
80°	162.7	168.4	155.7	136.1	123.0	87.3	90.1	94.5	128.5	154.9	138.8
82.5°	105.9	115.8	121.9	110.6	101.3	68.8	64.8	66.7	83.8	94.5	60.3
85°	44.1	49.6	80.2	72.4	67.3	50.2	43.5	44.3	51.9	53.8	24.7
87.5°	19.6	20.9	35.2	33.1	28.5	17.3	18.6	20.3	27.6	26.2	9.5
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°	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1362.9	1345.2	1314.8	1281.3	1253.8	1231.9	1209.7	1194.5	1176.8	1167.3	1162.5
5°	1364.0	1329.1	1265.2	1199.6	1141.0	1087.4	1036.3	997.1	960.4	940.5	935.0
7.5°	1368.4	1316.1	1212.7	1104.7	1000.4	905.3	831.9	785.9	752.8	738.0	733.8
10°	1372.0	1300.7	1147.7	987.8	846.0	749.6	692.6	666.9	655.5	653.6	651.7
12.5°	1380.4	1284.8	1079.4	865.8	726.0	659.3	639.5	637.8	640.9	645.6	645.6
15°	1393.7	1269.2	1001.3	761.2	649.6	626.2	630.2	639.5	648.1	655.3	656.3
17.5°	1403.4	1250.0	917.3	677.4	608.9	615.2	629.6	642.6	651.5	658.5	659.1
20°	1410.4	1220.3	827.7	613.5	585.5	605.1	623.0	634.6	640.7	647.7	648.7
22.5°	1406.8	1180.4	748.1	567.7	566.5	590.3	607.4	621.3	616.7	609.9	614.4
25°	1389.5	1125.6	666.3	533.6	546.4	570.5	591.6	582.3	566.7	563.7	565.4
27.5°	1358.7	1055.5	590.5	501.9	523.2	552.1	550.9	541.6	536.1	532.3	534.6
30°	1325.6	979.6	524.3	474.3	497.5	521.3	516.5	516.3	510.8	504.7	507.6
32.5°	1292.9	903.2	471.7	451.5	478.1	481.2	491.8	494.9	484.2	471.3	470.5
35°	1264.4	831.0	431.9	430.8	454.7	455.1	470.5	466.0	439.3	426.0	426.0
37.5°	1243.1	759.1	401.5	412.2	423.8	434.8	442.6	424.3	419.8	412.5	412.2
40°	1233.8	695.8	382.5	398.1	402.1	416.0	396.0	403.2	405.3	401.5	401.5
42.5°	1224.1	640.7	366.0	387.4	386.7	384.8	374.7	384.0	392.4	392.6	392.0
45°	1214.4	593.3	351.5	364.4	373.2	352.8	354.6	364.6	376.4	380.6	380.6
47.5°	1203.6	555.7	338.2	340.1	353.8	340.1	338.6	346.2	360.1	366.9	368.4
50°	1180.0	522.0	323.0	318.8	322.6	327.2	328.5	332.1	347.5	358.2	360.8
52.5°	1147.3	491.8	303.6	299.2	299.2	316.7	322.6	323.6	336.7	349.6	352.1
55°	1120.1	472.6	283.6	282.7	281.9	305.5	315.6	317.3	326.4	336.5	337.8
57°	1122.0	471.1	268.1	269.0	268.8	294.1	309.1	312.7	317.3	326.0	327.4
57.5°	1123.0	472.2	264.8	265.2	265.0	290.9	307.2	311.2	314.8	323.8	325.3
60°	1138.8	474.9	251.1	246.4	247.5	274.1	296.4	301.5	303.8	315.8	317.7
62.5°	1115.4	462.7	240.1	228.9	228.9	256.3	281.4	289.5	293.0	309.3	312.5
65°	1047.5	428.3	227.2	209.1	211.2	238.6	263.5	276.6	282.1	302.3	305.7
67.5°	942.6	388.4	213.5	191.4	193.5	220.0	244.9	259.1	267.7	294.7	297.5
70°	806.1	339.7	194.9	172.6	175.1	199.8	223.0	239.0	251.9	287.6	288.4
72.5°	594.3	278.5	169.0	151.9	154.6	176.2	200.8	219.4	236.7	269.6	269.2
75°	353.4	217.7	140.3	131.0	132.9	153.0	180.8	203.4	229.3	262.7	266.7
77.5°	214.4	163.9	114.3	109.7	112.0	132.5	166.5	190.5	226.2	247.7	246.4
80°	129.5	117.1	91.4	88.4	90.7	113.3	154.0	180.8	197.7	211.6	211.6
82.5°	67.7	71.5	67.1	64.8	67.9	92.0	140.1	157.8	174.7	150.0	140.1
85°	27.6	37.3	40.7	40.5	42.4	63.7	120.9	135.0	112.7	107.0	109.5
87.5°	9.3	15.8	19.8	17.1	17.9	40.1	83.8	65.2	77.4	54.0	51.3
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)