

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: P320925

Luminaire Tested: **GAN-SA1C-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320925  
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-SA1C-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6919 lumens  
Efficiency: N/A  
Efficacy: 117.3 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

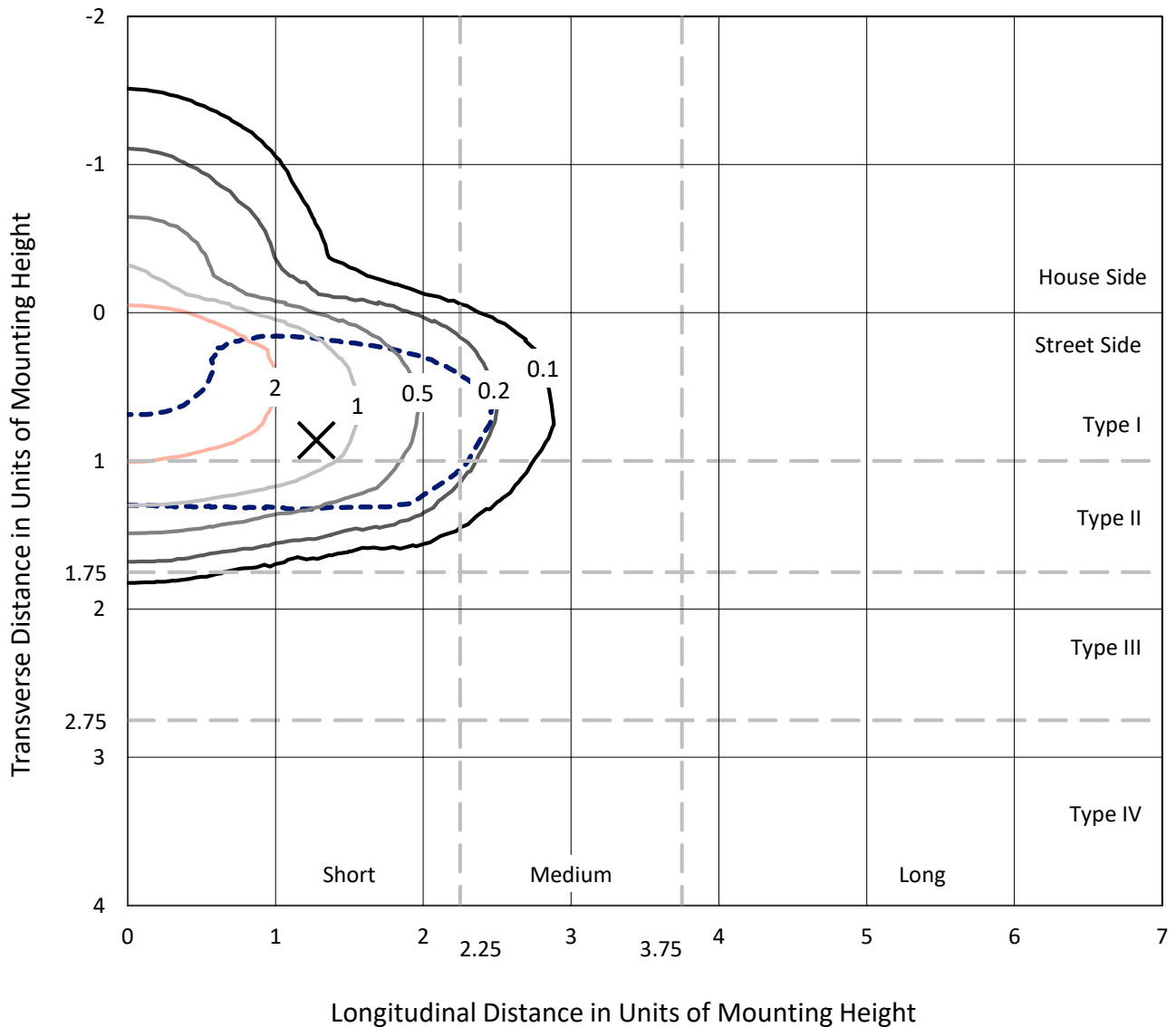
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

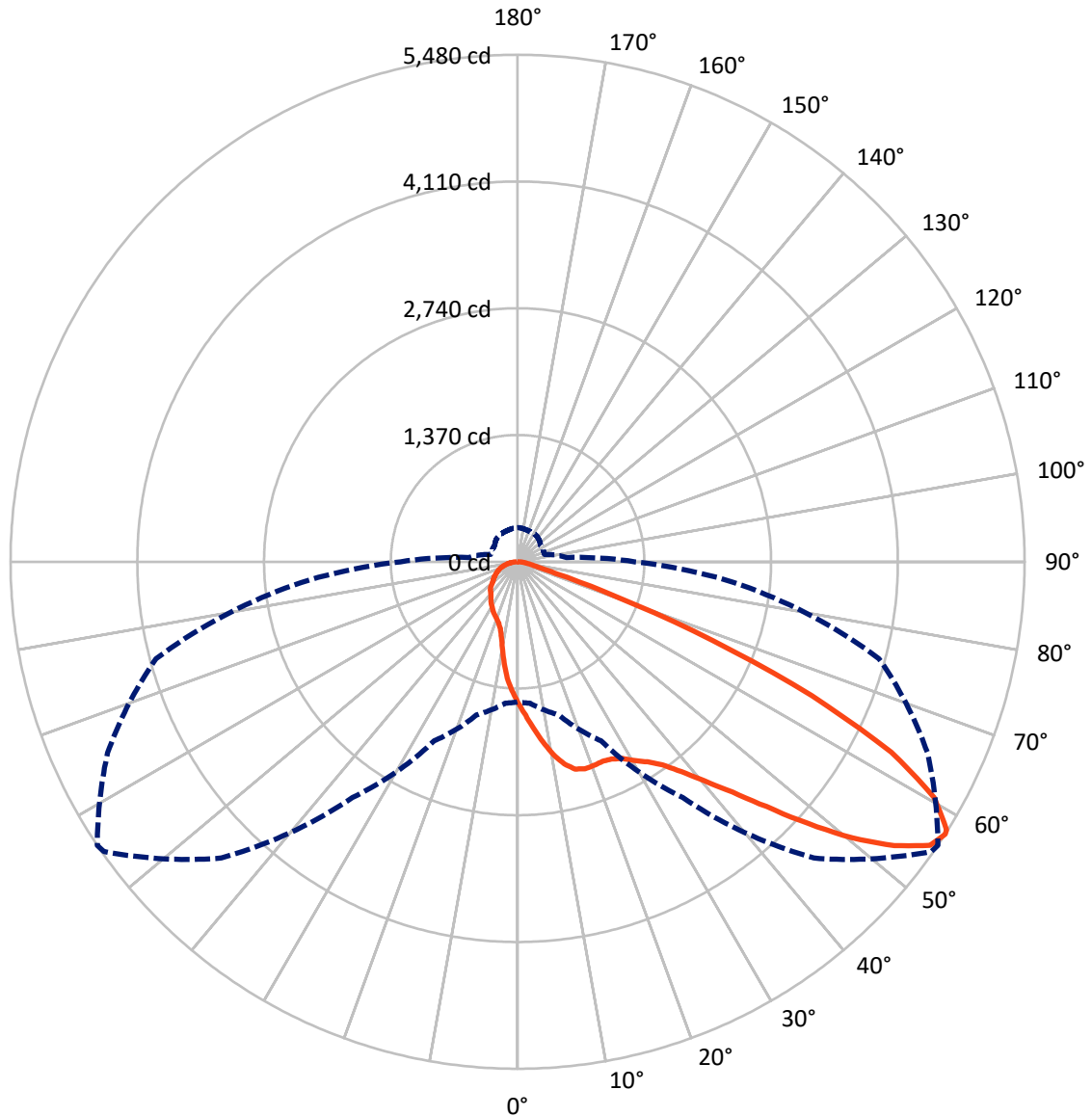
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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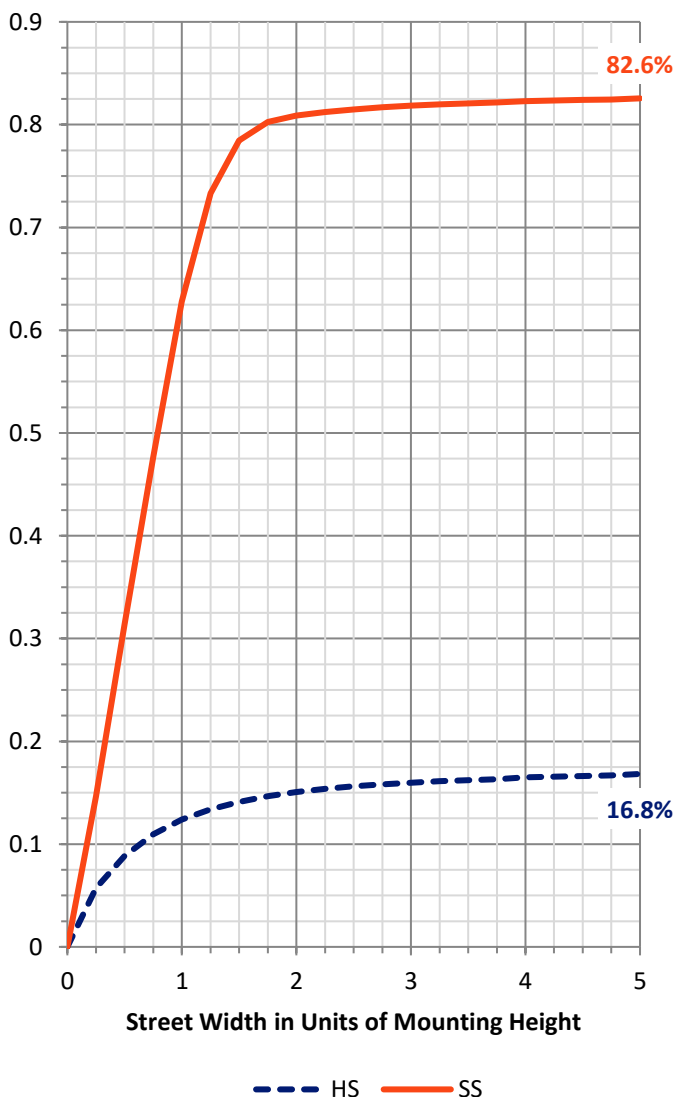
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1192.7	0.0	1192.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	5726.3	0.0	5726.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	6919.0	0.0	6919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	2.1
10°-20°	414.5	6.0
20°-30°	675.1	9.8
30°-40°	1009.2	14.6
40°-50°	1530.7	22.1
50°-60°	1715.6	24.8
60°-70°	1013.3	14.6
70°-80°	332.0	4.8
80°-90°	82.0	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°	6919.0	100.0
0°-180°	6919.0	100.0

**Coefficient of Utilization**

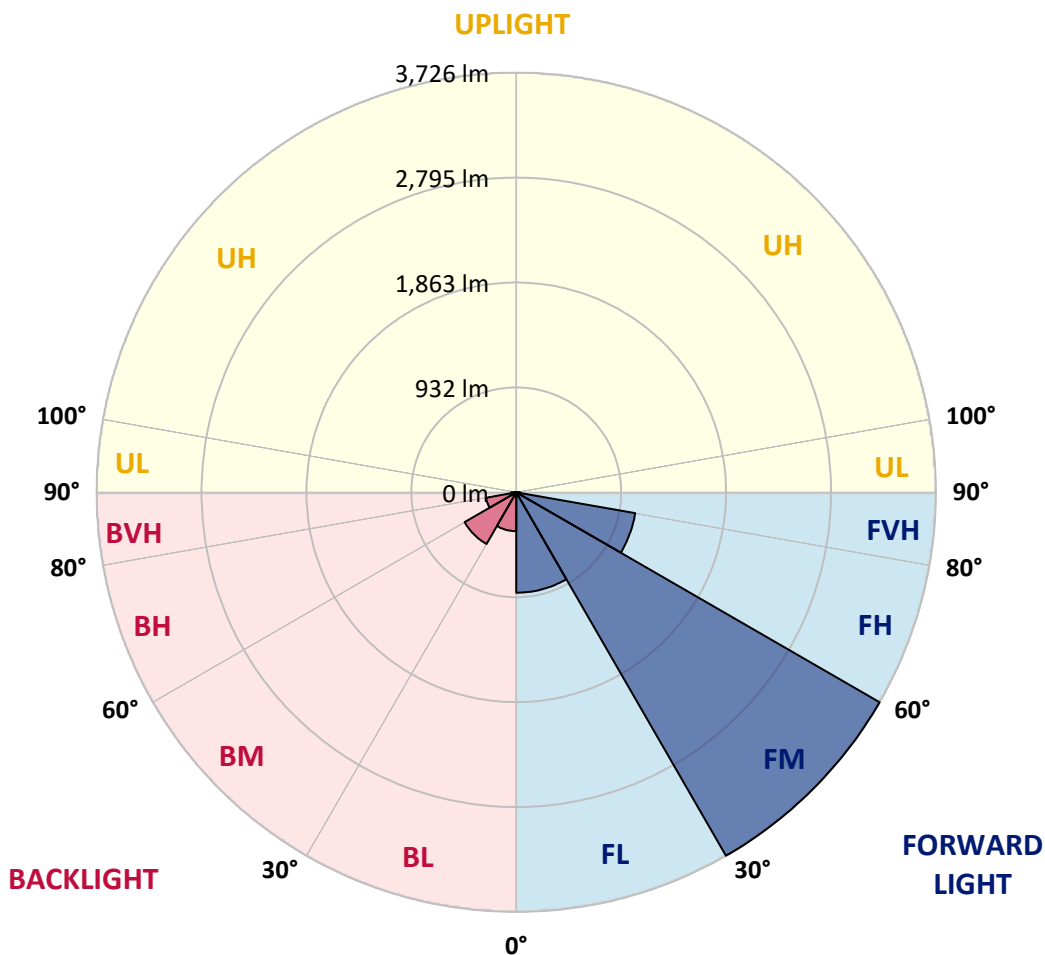


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.3	12.9			
FM (30°-60°)	3726.1	53.9			
FH (60°-80°)	1072.8	15.5			G1/1800
FVH (80°-90°)	36.1	0.5			G1/100
BL (0°-30°)	344.9	5.0	B1/500		
BM (30°-60°)	529.4	7.7	B1/1000		
BH (60°-80°)	272.5	3.9	B1/500		G1/500
BVH (80°-90°)	45.9	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°	56°	65°	75°	85°
0°	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1762.2	1778.4	1771.2	1746.5	1727.5	1700.6	1670.7	1661.6	1630.0	1594.6	1552.0
5°	2041.1	2033.0	2021.4	1982.9	1942.2	1894.9	1819.7	1807.9	1737.5	1657.3	1572.7
7.5°	2200.0	2199.2	2192.3	2169.8	2132.7	2070.8	1980.2	1966.2	1859.9	1731.0	1599.8
10°	2176.9	2175.2	2186.6	2210.2	2221.4	2208.5	2132.2	2118.2	1987.6	1812.6	1631.2
12.5°	2045.9	2046.8	2065.1	2114.6	2181.9	2262.7	2250.4	2243.5	2120.1	1904.9	1669.2
15°	1943.9	1946.0	1960.5	2003.5	2083.0	2229.7	2322.2	2324.5	2248.2	2006.6	1713.7
17.5°	1899.2	1903.7	1910.3	1940.5	2013.3	2163.8	2339.3	2352.1	2360.5	2112.2	1756.5
20°	1913.4	1917.7	1919.6	1938.9	1998.6	2123.9	2327.4	2350.5	2446.5	2211.6	1799.3
22.5°	1977.4	1980.0	1981.2	1986.2	2032.6	2135.3	2319.6	2343.8	2508.8	2300.8	1831.6
25°	2083.4	2081.5	2073.9	2067.5	2098.7	2180.5	2337.6	2360.7	2559.5	2381.6	1852.8
27.5°	2210.4	2208.0	2193.3	2175.7	2193.5	2250.8	2389.7	2408.0	2604.9	2457.2	1863.5
30°	2362.8	2356.7	2328.8	2307.9	2314.8	2356.4	2475.5	2492.2	2675.0	2543.1	1874.0
32.5°	2539.0	2532.4	2492.2	2457.5	2457.5	2492.2	2564.0	2577.8	2734.5	2640.1	1890.8
35°	2759.7	2751.4	2699.1	2640.8	2624.4	2642.0	2684.6	2694.3	2841.5	2762.3	1921.5
37.5°	3019.8	3008.6	2940.9	2862.9	2827.0	2826.0	2856.7	2876.7	3012.5	2922.8	1973.6
40°	3280.7	3272.8	3213.6	3152.3	3081.9	3059.3	3106.6	3112.8	3236.0	3122.1	2040.2
42.5°	3482.3	3480.9	3469.9	3478.0	3406.0	3360.3	3397.4	3402.4	3508.9	3337.7	2111.0
45°	3588.8	3591.2	3644.2	3761.7	3788.3	3755.0	3773.4	3774.8	3820.9	3555.3	2175.9
47.5°	3503.5	3515.8	3649.9	3912.7	4130.7	4241.3	4210.9	4228.5	4123.4	3742.2	2226.8
50°	3170.8	3186.0	3414.3	3845.4	4290.5	4711.9	4695.9	4691.9	4367.3	3879.2	2254.4
52.5°	2758.7	2770.6	2959.0	3495.6	4173.3	4972.0	5118.2	5097.3	4584.2	3981.6	2259.6
55°	2131.2	2149.8	2330.3	2797.5	3699.2	4872.6	5428.8	5410.0	4781.8	4035.4	2253.5
57°	1515.1	1534.6	1713.9	2135.0	3111.8	4528.5	5459.7	5479.7	4888.5	4044.4	2260.3
57.5°	1352.0	1372.0	1549.6	1958.6	2928.8	4404.2	5433.1	5466.4	4907.8	4043.0	2264.2
60°	680.8	688.4	801.6	1093.3	1851.4	3560.5	5085.7	5171.5	4925.2	3973.1	2280.6
62.5°	423.3	417.8	414.2	503.6	900.7	2361.2	4368.8	4534.0	4593.0	3803.8	2240.9
65°	372.1	361.9	322.7	315.5	397.8	1146.8	3289.9	3495.6	3883.2	3537.0	2146.2
67.5°	349.5	339.6	295.3	268.7	268.9	454.6	2042.5	2274.1	3025.1	3085.9	1922.9
70°	326.2	317.2	275.8	244.4	229.0	251.8	939.7	1115.4	1971.9	2425.6	1607.2
72.5°	296.3	290.1	250.9	218.5	202.1	188.6	359.8	424.9	1141.6	1629.0	1116.1
75°	264.9	259.2	225.7	194.7	174.8	148.4	202.6	218.3	579.9	833.4	549.5
77.5°	230.4	227.1	200.7	172.2	156.2	122.9	143.4	151.0	248.7	357.4	275.6
80°	183.3	189.7	175.5	153.4	138.6	98.4	101.5	106.5	144.8	174.5	156.5
82.5°	119.4	130.5	137.4	124.6	114.1	77.5	73.0	75.1	94.4	106.5	68.0
85°	49.7	55.9	90.4	81.6	75.9	56.6	49.0	49.9	58.5	60.6	27.8
87.5°	22.1	23.5	39.7	37.3	32.1	19.5	20.9	22.8	31.1	29.5	10.7
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°	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1536.1	1516.1	1481.9	1444.0	1413.1	1388.4	1363.4	1346.3	1326.3	1315.6	1310.2
5°	1537.3	1498.0	1426.0	1352.0	1285.9	1225.5	1168.0	1123.8	1082.4	1060.0	1053.8
7.5°	1542.2	1483.3	1366.8	1245.0	1127.6	1020.3	937.6	885.7	848.4	831.8	827.0
10°	1546.3	1465.9	1293.5	1113.3	953.5	844.8	780.6	751.6	738.8	736.6	734.5
12.5°	1555.8	1448.1	1216.5	975.9	818.2	743.1	720.7	718.8	722.4	727.6	727.6
15°	1570.8	1430.5	1128.5	857.9	732.1	705.7	710.3	720.7	730.5	738.5	739.7
17.5°	1581.7	1408.9	1033.9	763.5	686.2	693.4	709.5	724.3	734.3	742.1	742.8
20°	1589.6	1375.3	932.8	691.5	659.8	682.0	702.2	715.2	722.1	730.0	731.2
22.5°	1585.5	1330.4	843.2	639.9	638.4	665.3	684.6	700.3	695.0	687.4	692.4
25°	1566.0	1268.6	750.9	601.3	615.9	643.0	666.7	656.3	638.7	635.4	637.3
27.5°	1531.3	1189.6	665.5	565.7	589.7	622.3	620.8	610.4	604.2	599.9	602.5
30°	1494.0	1104.0	590.9	534.5	560.7	587.6	582.1	581.9	575.7	568.8	572.1
32.5°	1457.1	1017.9	531.7	508.9	538.8	542.4	554.3	557.8	545.7	531.2	530.3
35°	1425.0	936.6	486.7	485.5	512.4	512.9	530.3	525.3	495.1	480.1	480.1
37.5°	1401.0	855.5	452.5	464.6	477.7	490.1	498.9	478.2	473.2	464.9	464.6
40°	1390.5	784.2	431.1	448.7	453.2	468.9	446.3	454.4	456.8	452.5	452.5
42.5°	1379.6	722.1	412.6	436.6	435.9	433.7	422.3	432.8	442.3	442.5	441.8
45°	1368.7	668.6	396.1	410.6	420.6	397.6	399.7	410.9	424.2	429.0	429.0
47.5°	1356.5	626.3	381.2	383.3	398.8	383.3	381.6	390.2	405.9	413.5	415.2
50°	1329.9	588.3	364.0	359.3	363.6	368.8	370.2	374.3	391.6	403.8	406.6
52.5°	1293.1	554.3	342.2	337.2	337.2	356.9	363.6	364.8	379.5	394.0	396.9
55°	1262.4	532.6	319.6	318.6	317.7	344.3	355.7	357.6	367.8	379.3	380.7
57°	1264.5	531.0	302.2	303.2	302.9	331.5	348.3	352.4	357.6	367.4	369.0
57.5°	1265.7	532.2	298.4	298.9	298.7	327.9	346.2	350.7	354.8	365.0	366.7
60°	1283.5	535.2	283.0	277.7	278.9	308.9	334.1	339.8	342.4	356.0	358.1
62.5°	1257.1	521.5	270.6	258.0	258.0	288.9	317.2	326.2	330.3	348.6	352.2
65°	1180.6	482.7	256.1	235.6	238.0	268.9	297.0	311.7	317.9	340.7	344.5
67.5°	1062.4	437.8	240.6	215.7	218.0	248.0	276.1	292.0	301.7	332.2	335.3
70°	908.6	382.8	219.7	194.5	197.4	225.2	251.3	269.4	283.9	324.1	325.0
72.5°	669.8	313.9	190.5	171.2	174.3	198.5	226.4	247.3	266.8	303.9	303.4
75°	398.3	245.4	158.1	147.7	149.8	172.4	203.8	229.2	258.5	296.0	300.6
77.5°	241.6	184.8	128.9	123.6	126.3	149.3	187.6	214.7	254.9	279.2	277.7
80°	146.0	132.0	103.0	99.6	102.2	127.7	173.6	203.8	222.8	238.5	238.5
82.5°	76.3	80.6	75.6	73.0	76.6	103.7	157.9	177.9	196.9	169.1	157.9
85°	31.1	42.1	45.9	45.7	47.8	71.8	136.2	152.2	127.0	120.6	123.4
87.5°	10.5	17.8	22.4	19.3	20.2	45.2	94.4	73.5	87.3	60.9	57.8
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)