

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: P317415

Luminaire Tested: **GAN-SA1D-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317415  
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: GAN-SA1D-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7707 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

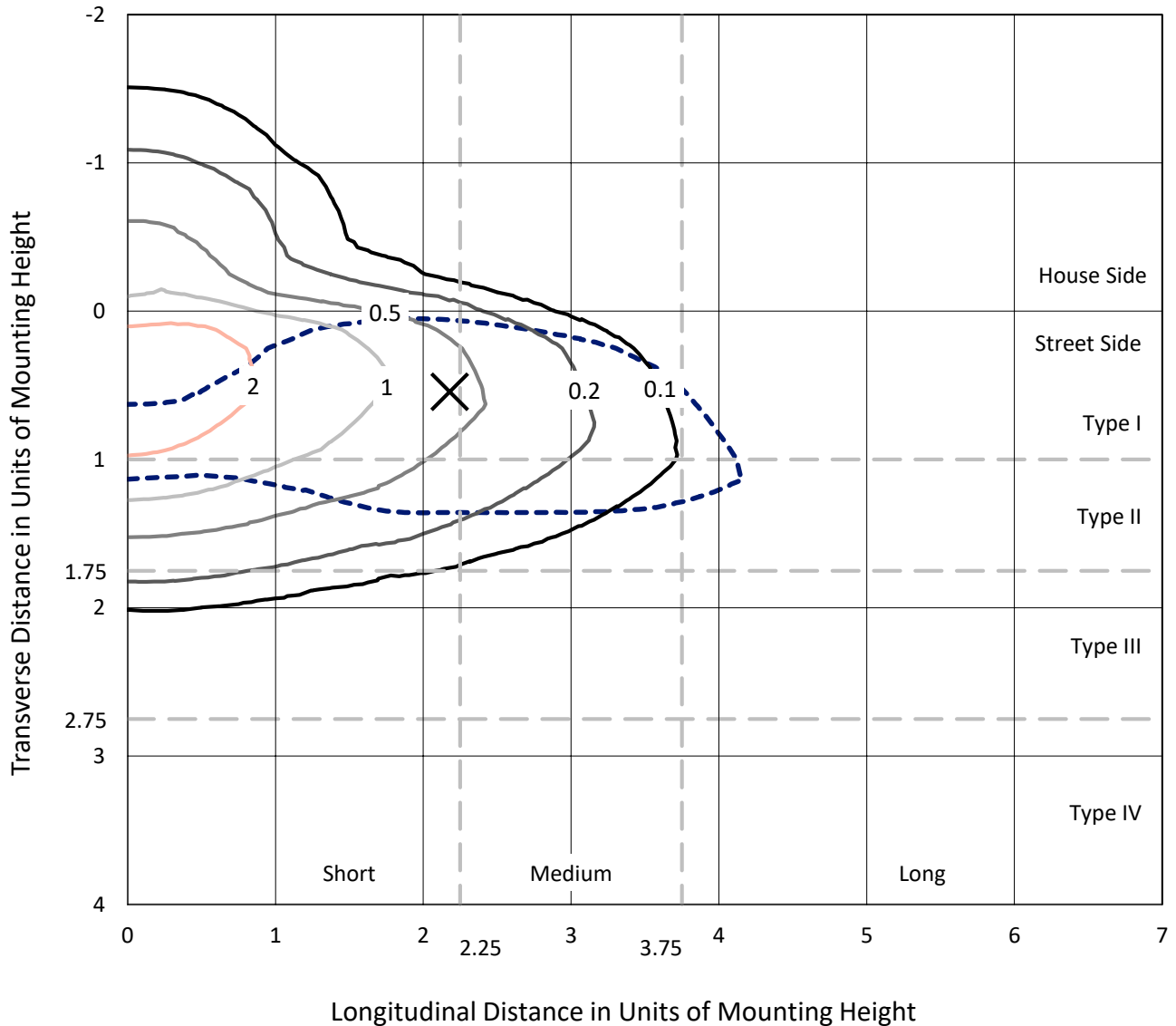
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

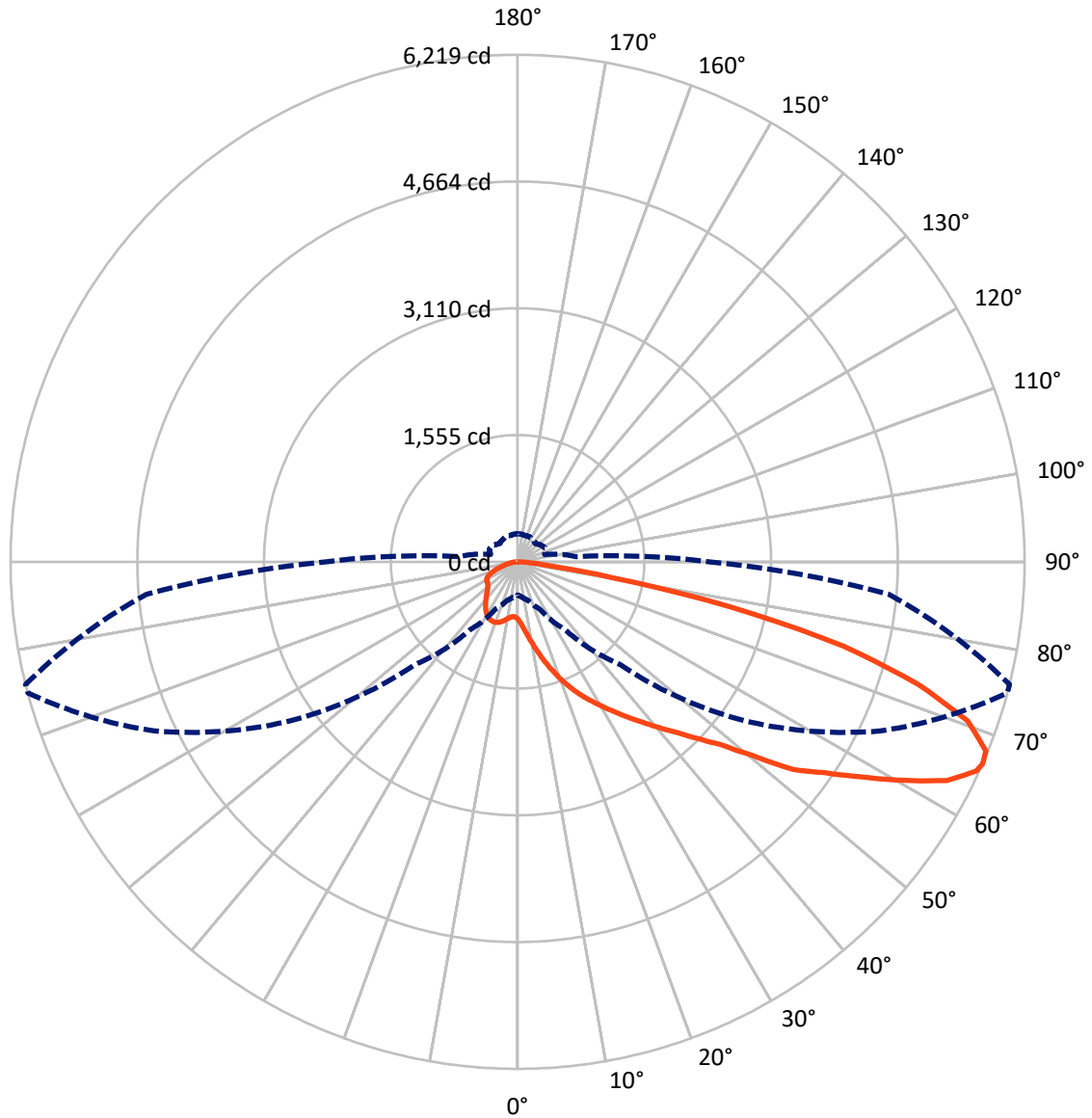
✕ Max cd  
 - - - 1/2 Max cd



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

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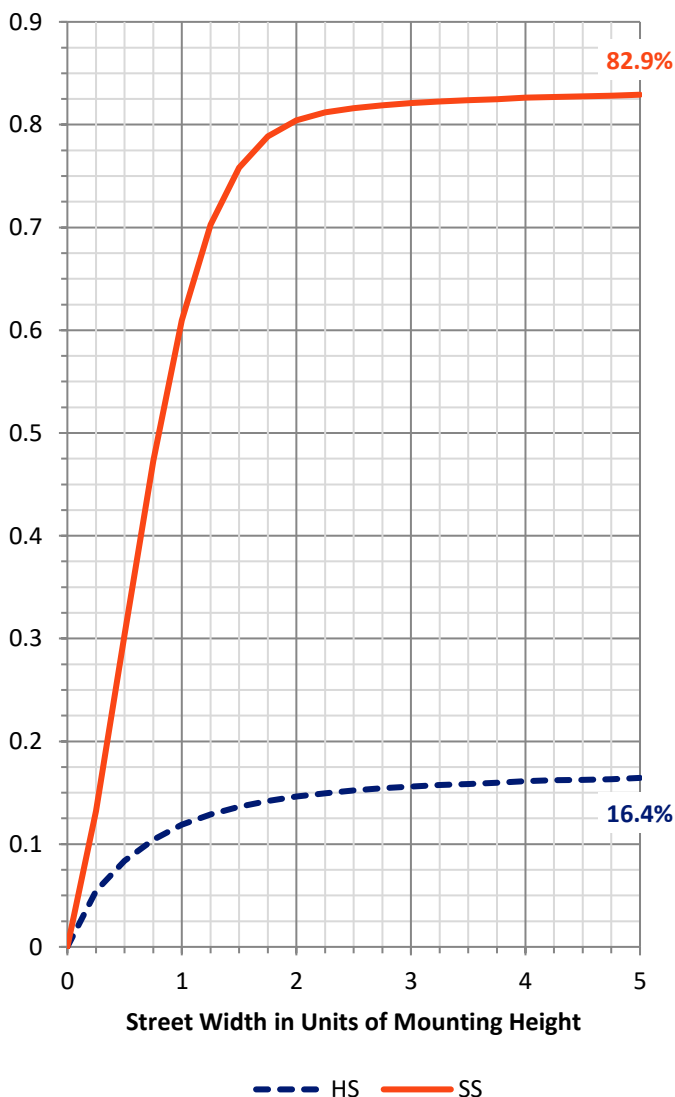
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1296.8	0.0	1296.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	6410.2	0.0	6410.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	7707.0	0.0	7707.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.1	1.1
10°-20°	336.1	4.4
20°-30°	653.1	8.5
30°-40°	1066.0	13.8
40°-50°	1456.5	18.9
50°-60°	1696.5	22.0
60°-70°	1520.9	19.7
70°-80°	768.6	10.0
80°-90°	124.1	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°	7707.0	100.0
0°-180°	7707.0	100.0

**Coefficient of Utilization**

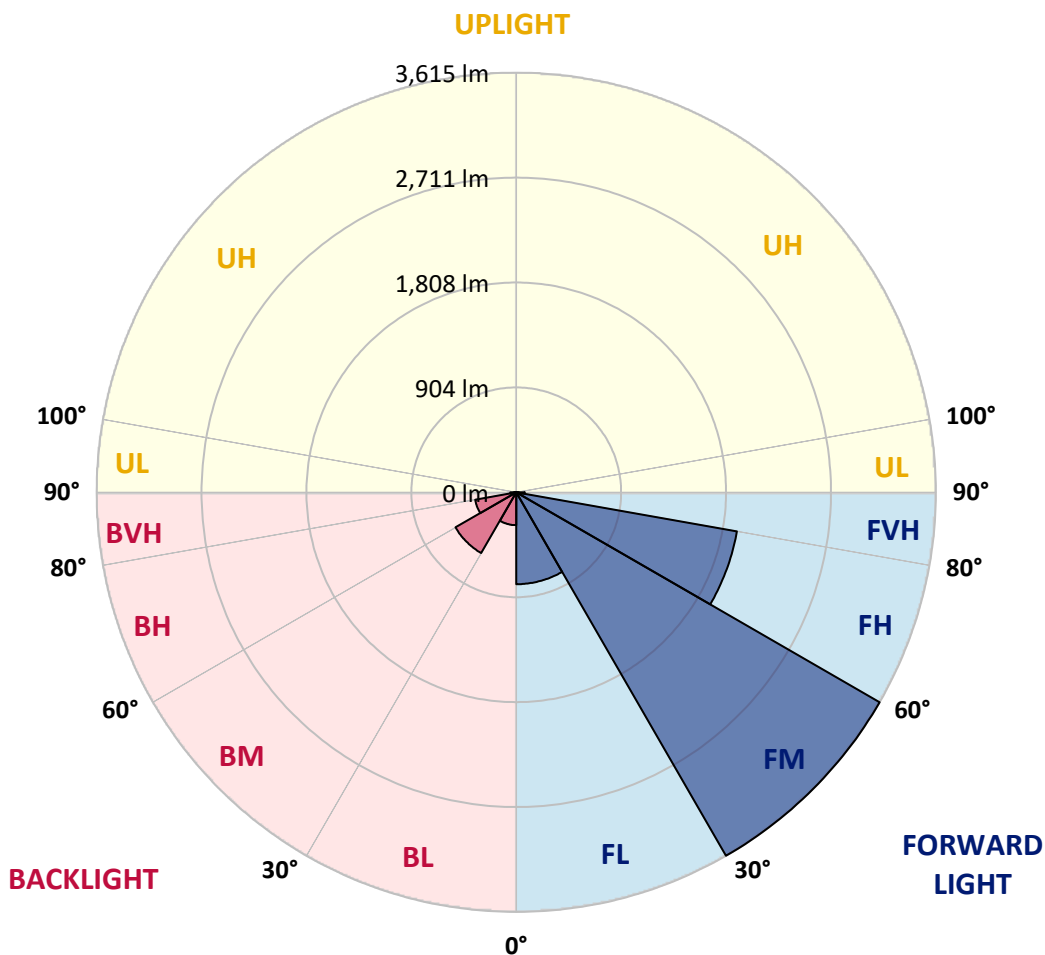


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.5	10.3			
FM (30°-60°)	3615.1	46.9			
FH (60°-80°)	1930.3	25.0			G2/5000
FVH (80°-90°)	73.3	1.0			G1/100
BL (0°-30°)	282.8	3.7	B1/500		
BM (30°-60°)	603.9	7.8	B1/1000		
BH (60°-80°)	359.3	4.7	B1/500		G1/500
BVH (80°-90°)	50.8	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8
2.5°	934.3	920.2	918.9	898.2	893.5	854.0	825.0	794.6	760.1	753.3	726.1
5°	1200.2	1198.9	1180.8	1147.0	1120.6	1053.1	986.4	915.8	838.3	825.7	764.5
7.5°	1439.3	1437.2	1423.3	1387.0	1348.8	1265.8	1170.6	1062.3	936.7	918.1	816.6
10°	1620.9	1620.1	1615.4	1588.7	1556.3	1476.7	1371.5	1223.7	1051.0	1025.6	881.7
12.5°	1761.1	1762.7	1765.8	1756.4	1741.0	1673.2	1565.4	1394.8	1173.0	1147.8	954.2
15°	1856.1	1860.8	1877.0	1890.4	1898.5	1856.9	1752.5	1569.9	1309.5	1279.4	1034.5
17.5°	1904.0	1909.2	1937.2	1977.5	2014.7	2010.5	1927.5	1736.8	1440.6	1411.6	1120.9
20°	1945.3	1949.2	1980.6	2029.1	2094.7	2123.8	2077.2	1897.4	1584.3	1549.7	1212.5
22.5°	2065.2	2070.1	2079.5	2107.0	2165.1	2218.5	2196.0	2049.5	1715.9	1683.7	1299.3
25°	2296.5	2302.5	2282.1	2258.8	2269.8	2306.9	2311.1	2188.1	1849.3	1812.9	1392.7
27.5°	2575.1	2583.7	2548.9	2489.0	2436.7	2422.3	2417.3	2301.7	1976.7	1934.6	1485.1
30°	2848.0	2862.9	2817.6	2739.9	2643.9	2576.4	2526.4	2412.9	2102.3	2062.0	1572.2
32.5°	3114.6	3108.6	3042.9	2967.0	2854.5	2770.0	2649.1	2532.2	2243.6	2197.3	1658.8
35°	3297.2	3299.3	3238.4	3148.4	3041.1	2976.2	2813.5	2660.9	2387.8	2345.1	1757.2
37.5°	3452.7	3443.0	3373.9	3289.9	3197.6	3169.8	3005.8	2802.7	2544.0	2497.4	1861.9
40°	3504.5	3493.2	3447.9	3387.5	3313.5	3311.1	3218.0	2963.4	2720.6	2674.5	1979.9
42.5°	3473.1	3458.7	3440.1	3423.6	3400.9	3411.3	3417.3	3151.8	2914.7	2863.2	2116.4
45°	3357.2	3335.4	3348.5	3384.4	3433.8	3493.0	3597.3	3360.3	3132.1	3089.0	2276.8
47.5°	3179.0	3159.4	3200.2	3276.8	3411.3	3561.0	3767.7	3590.5	3391.7	3348.8	2505.2
50°	2928.3	2934.1	2992.4	3131.9	3335.2	3592.4	3977.5	3895.4	3769.0	3729.0	2816.9
52.5°	2517.0	2518.1	2682.4	2911.3	3200.2	3576.2	4093.9	4284.9	4284.2	4235.8	3113.6
55°	2135.0	2158.3	2288.3	2592.6	2981.4	3511.3	4175.3	4474.4	4622.5	4565.7	3390.1
57.5°	1761.9	1775.5	1898.8	2204.4	2669.3	3338.3	4258.8	4701.7	5012.3	4976.5	3733.9
60°	1337.5	1358.5	1485.9	1768.2	2270.0	3031.4	4266.6	4939.1	5478.3	5442.2	4117.8
62.5°	868.1	904.2	1023.6	1288.1	1787.0	2590.0	4084.5	5094.2	5920.0	5907.1	4458.4
65°	499.0	526.2	609.1	813.2	1232.9	2035.9	3651.5	5034.6	6191.8	6184.5	4585.8
66°	407.6	424.6	488.2	635.5	1017.3	1787.8	3399.8	4908.7	6218.8	6219.0	4571.2
67.5°	326.0	333.6	362.1	455.0	750.7	1417.1	2950.0	4631.1	6185.3	6194.4	4476.7
70°	269.8	273.7	282.6	305.1	409.7	854.5	2093.9	3909.7	5849.1	5856.1	4108.1
72.5°	242.0	244.4	247.8	250.9	289.1	477.5	1278.9	3127.7	5128.2	5137.4	3546.3
75°	219.3	220.6	220.0	220.3	242.5	304.3	660.9	2335.2	4146.5	4128.2	2716.7
77.5°	192.6	193.9	191.3	191.8	214.5	233.9	328.9	1634.8	2798.3	2669.0	1530.6
80°	162.7	163.8	162.7	164.6	186.8	176.6	191.3	919.7	1237.3	1170.3	544.2
82.5°	123.0	127.4	130.6	137.9	153.8	125.6	127.9	358.2	376.8	358.7	166.9
85°	53.9	65.7	98.4	105.4	115.6	75.4	84.0	146.0	153.3	148.6	60.7
87.5°	14.1	15.4	48.7	61.2	64.1	34.0	43.7	66.5	70.1	66.5	20.1
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°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8
2.5°	711.7	698.9	675.8	655.4	640.0	629.5	619.1	613.8	610.7	607.5	608.1
5°	734.4	708.5	669.0	641.0	625.3	615.4	610.2	608.1	606.8	603.6	603.6
7.5°	768.7	732.1	677.7	648.9	636.6	629.0	625.9	624.8	623.2	619.6	620.1
10°	811.9	760.6	695.7	667.7	656.5	648.1	643.6	642.1	639.2	635.0	635.5
12.5°	862.6	795.9	719.5	690.2	676.6	665.4	658.0	653.6	648.6	643.1	643.4
15°	918.1	834.4	745.2	710.4	691.8	676.1	664.3	656.7	648.9	642.1	641.8
17.5°	974.4	871.5	764.8	721.4	696.2	675.6	659.6	647.8	638.2	629.8	629.0
20°	1035.1	905.0	775.8	720.3	687.9	663.3	642.1	627.4	616.7	608.3	607.0
22.5°	1096.8	936.4	777.6	709.6	669.3	639.2	617.0	600.7	589.7	581.1	578.0
25°	1153.3	960.8	770.0	688.9	643.4	610.9	589.2	572.7	563.8	553.6	550.5
27.5°	1204.9	977.8	754.8	662.5	614.3	582.4	562.0	547.9	538.2	530.4	527.7
30°	1251.2	986.9	730.0	631.1	584.5	555.5	538.2	528.5	520.1	510.2	508.4
32.5°	1295.1	986.9	698.1	596.8	554.9	531.7	521.5	515.4	506.0	496.3	493.7
35°	1339.1	980.9	660.4	561.0	527.7	514.7	514.1	507.1	492.7	479.6	476.2
37.5°	1385.4	968.6	618.0	527.5	505.5	507.1	511.5	495.8	475.4	456.8	451.9
40°	1437.7	951.6	574.0	498.4	486.9	503.7	504.5	479.6	439.8	422.8	418.4
42.5°	1499.2	934.6	533.2	472.8	472.3	493.5	491.1	444.5	420.7	412.1	409.7
45°	1580.1	924.9	494.5	448.5	460.8	477.0	468.3	425.2	415.2	410.3	408.2
47.5°	1707.5	929.9	458.9	429.1	449.2	460.5	426.0	417.3	410.3	404.2	402.1
50°	1867.1	927.0	430.1	415.8	436.2	443.2	406.9	407.1	403.5	396.7	393.5
52.5°	1987.2	904.5	411.6	408.2	424.6	412.6	394.8	397.2	395.3	385.4	382.0
55°	2103.1	885.1	402.1	405.3	416.3	374.4	380.7	386.4	384.6	374.9	373.4
57.5°	2247.3	881.5	396.4	406.1	409.2	355.3	367.1	374.7	373.4	369.2	368.4
60°	2423.9	882.5	391.2	407.4	401.4	341.2	354.3	363.9	364.7	363.9	363.4
62.5°	2520.9	854.0	378.1	403.7	387.5	328.9	340.9	355.1	355.3	356.9	356.6
65°	2438.5	768.7	353.7	390.9	364.2	318.7	329.4	344.8	340.9	348.0	348.0
66°	2358.5	719.5	341.7	382.5	354.3	314.8	325.7	339.6	334.6	344.3	344.3
67.5°	2194.9	636.6	320.0	364.7	340.1	309.3	321.6	331.0	324.2	338.6	337.5
70°	1896.1	492.4	276.3	324.4	316.9	301.2	315.8	313.7	303.8	325.7	321.6
72.5°	1598.6	374.2	221.9	271.6	281.5	290.9	307.7	291.7	279.2	294.6	285.5
75°	1240.5	281.3	175.3	211.1	237.8	275.0	298.0	266.4	248.3	246.7	241.8
77.5°	670.6	193.1	138.9	161.2	188.9	255.1	291.5	239.1	211.9	205.7	201.7
80°	265.6	125.6	101.0	122.2	132.1	226.3	275.8	207.5	174.8	168.5	162.5
82.5°	109.6	74.3	65.1	81.9	86.1	193.6	247.5	170.1	135.0	186.8	198.3
85°	47.1	40.8	38.7	42.4	48.7	135.8	197.0	129.8	145.7	130.0	103.3
87.5°	14.1	17.3	16.5	16.2	17.8	32.4	104.9	72.2	107.0	40.6	30.4
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)