

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: P317395

Luminaire Tested: **GAN-SA1B-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317395  
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-SA1B-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5677 lumens  
Efficiency: N/A  
Efficacy: 129.0 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

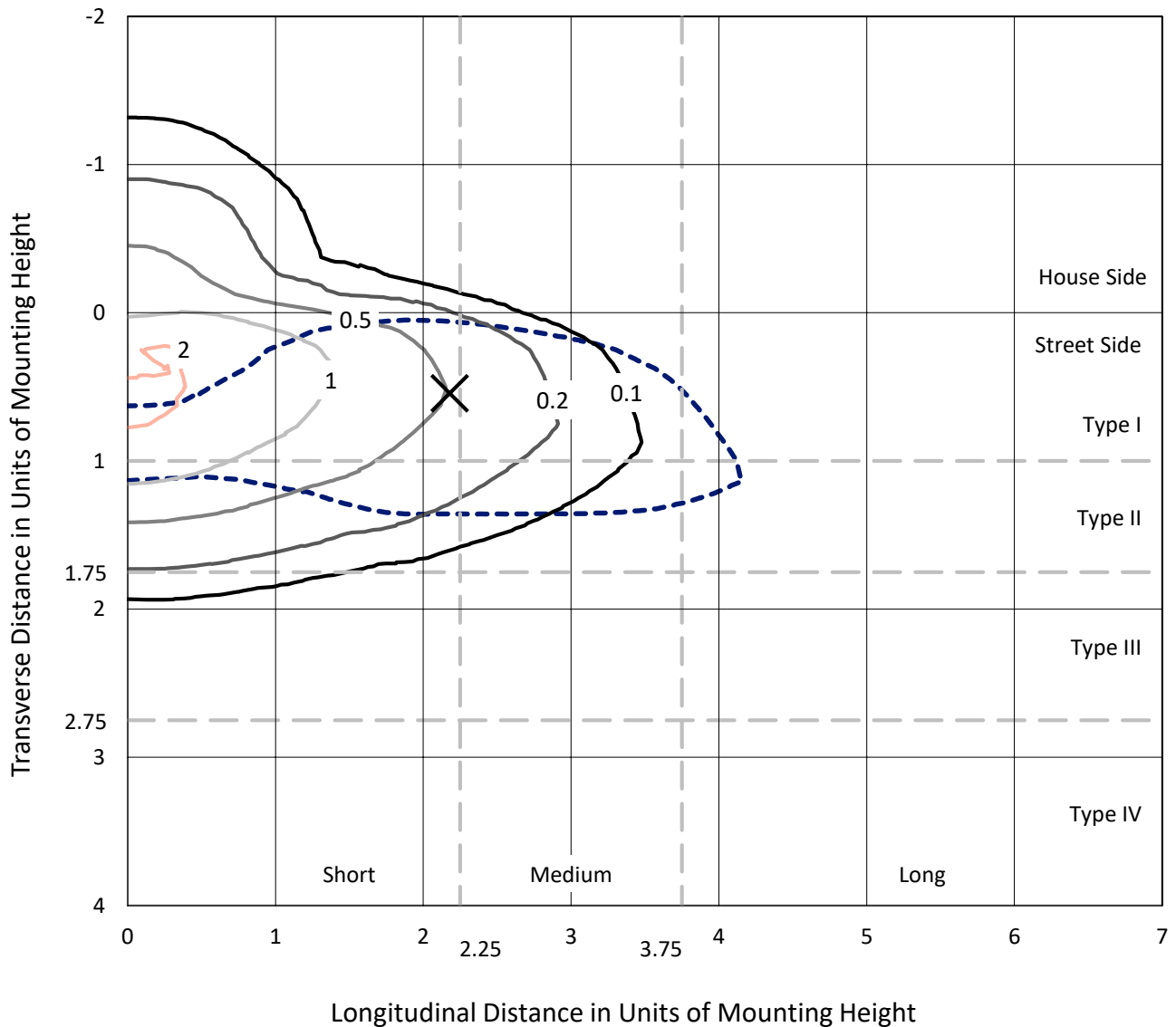
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P317395  
 CATALOG NUMBER: GAN-SA1B-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

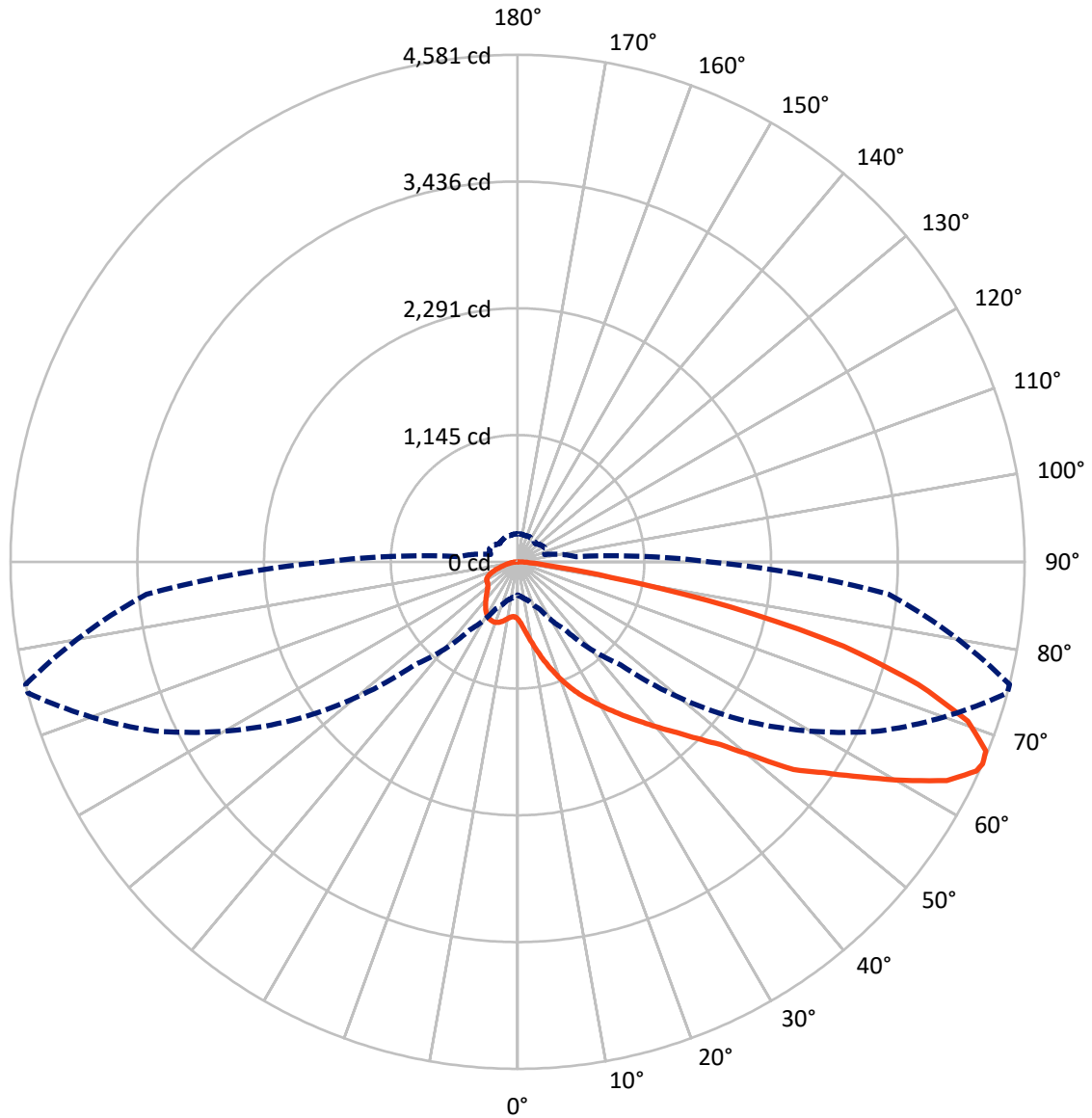
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P317395  
CATALOG NUMBER: GAN-SA1B-730-U-T2R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P317395  
 CATALOG NUMBER: GAN-SA1B-730-U-T2R

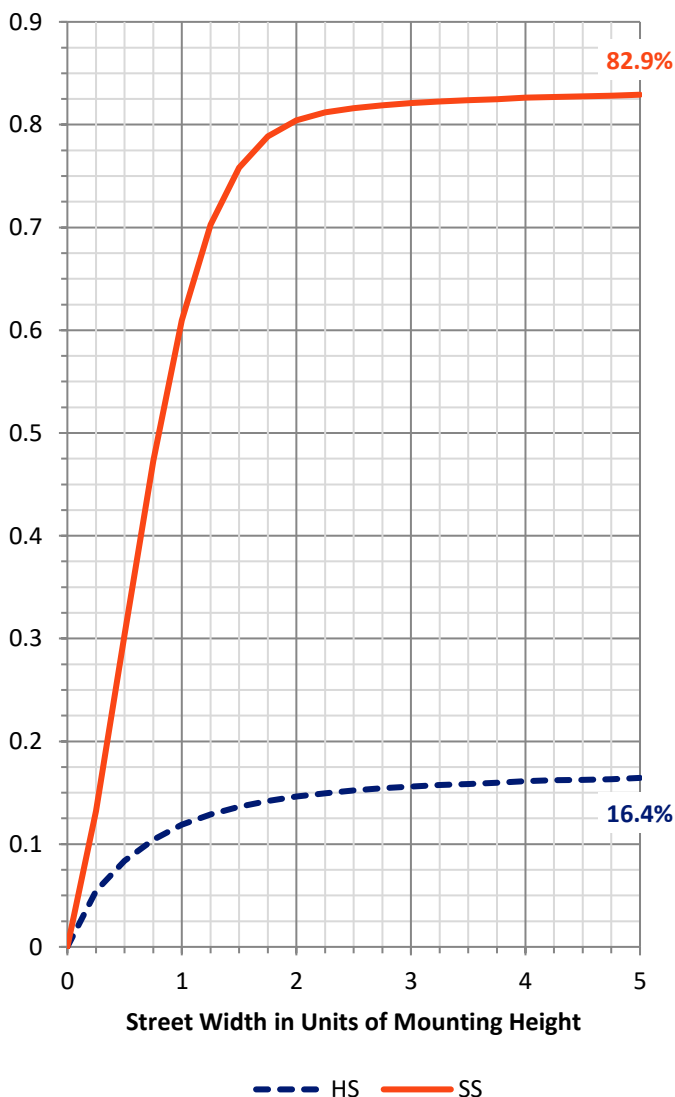
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	955.2	0.0	955.2
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4721.8	0.0	4721.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	5677.0	0.0	5677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.7	1.1
10°-20°	247.6	4.4
20°-30°	481.1	8.5
30°-40°	785.2	13.8
40°-50°	1072.8	18.9
50°-60°	1249.6	22.0
60°-70°	1120.3	19.7
70°-80°	566.2	10.0
80°-90°	91.4	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°	5677.0	100.0
0°-180°	5677.0	100.0

**Coefficient of Utilization**



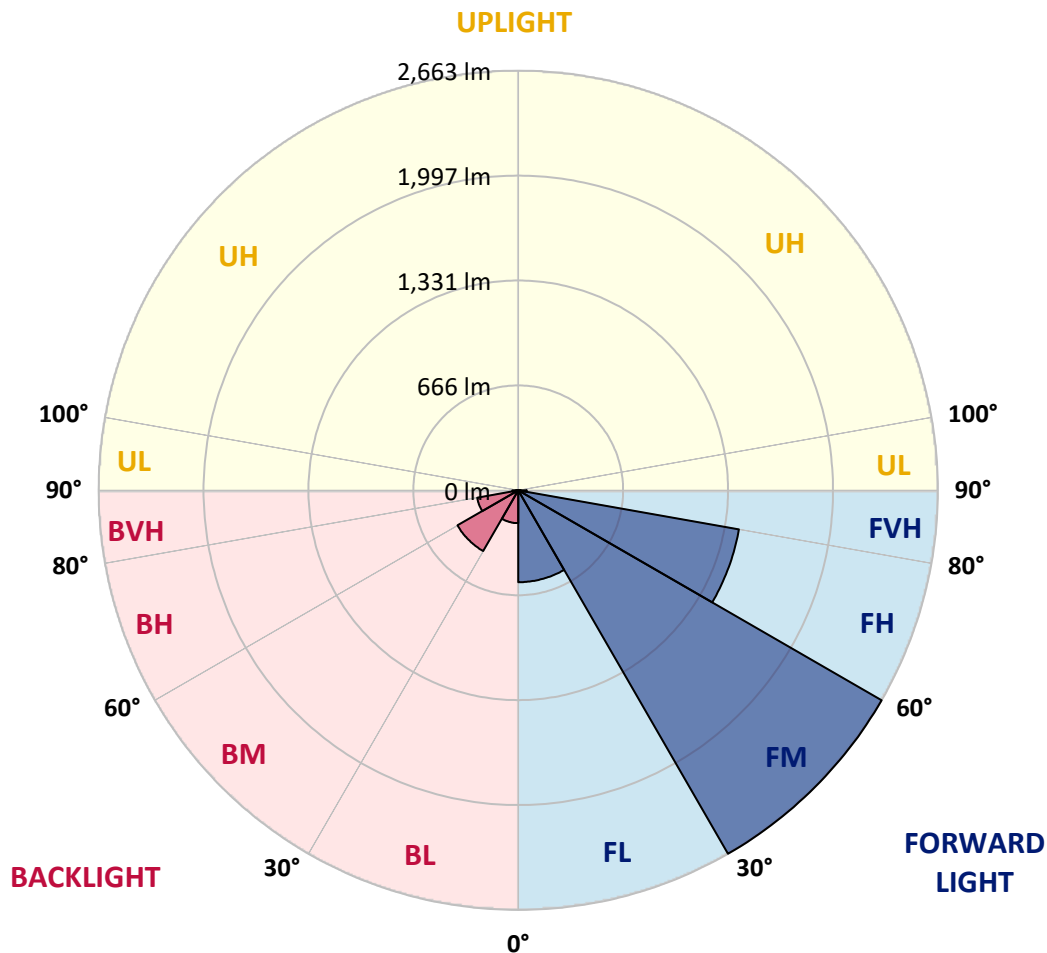
REPORT NUMBER: P317395  
 CATALOG NUMBER: GAN-SA1B-730-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.0	10.3			
FM (30°-60°)	2662.9	46.9			
FH (60°-80°)	1421.8	25.0			G1/1800
FVH (80°-90°)	54.0	1.0			G1/100
BL (0°-30°)	208.3	3.7	B1/500		
BM (30°-60°)	444.8	7.8	B1/1000		
BH (60°-80°)	264.6	4.7	B1/500		G1/500
BVH (80°-90°)	37.4	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





REPORT NUMBER: P317395  
 CATALOG NUMBER: GAN-SA1B-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4
2.5°	688.2	677.8	676.9	661.6	658.2	629.1	607.7	585.3	559.9	554.9	534.8
5°	884.0	883.1	869.8	844.9	825.5	775.7	726.6	674.5	617.5	608.2	563.2
7.5°	1060.2	1058.7	1048.4	1021.7	993.5	932.4	862.3	782.5	690.0	676.3	601.5
10°	1193.9	1193.4	1189.9	1170.2	1146.3	1087.8	1010.3	901.4	774.2	755.5	649.5
12.5°	1297.3	1298.4	1300.7	1293.8	1282.4	1232.5	1153.1	1027.4	864.0	845.5	702.9
15°	1367.2	1370.7	1382.6	1392.5	1398.4	1367.8	1290.9	1156.4	964.6	942.4	762.0
17.5°	1402.5	1406.3	1427.0	1456.6	1484.0	1480.9	1419.8	1279.3	1061.2	1039.8	825.6
20°	1432.9	1435.8	1459.0	1494.6	1543.0	1564.4	1530.1	1397.7	1167.0	1141.5	893.1
22.5°	1521.2	1524.9	1531.8	1552.0	1594.8	1634.1	1617.6	1509.6	1263.9	1240.2	957.1
25°	1691.6	1696.0	1681.0	1663.8	1671.9	1699.3	1702.4	1611.8	1362.2	1335.4	1025.9
27.5°	1896.8	1903.2	1877.6	1833.4	1794.9	1784.3	1780.6	1695.4	1456.1	1425.0	1093.9
30°	2097.8	2108.8	2075.5	2018.2	1947.5	1897.8	1861.0	1777.3	1548.6	1518.9	1158.1
32.5°	2294.2	2289.8	2241.4	2185.5	2102.7	2040.4	1951.4	1865.2	1652.6	1618.5	1221.9
35°	2428.8	2430.3	2385.4	2319.1	2240.1	2192.3	2072.4	1960.0	1758.8	1727.4	1294.4
37.5°	2543.2	2536.1	2485.2	2423.4	2355.3	2334.9	2214.1	2064.5	1873.9	1839.6	1371.5
40°	2581.4	2573.1	2539.8	2495.2	2440.7	2439.0	2370.4	2182.8	2004.0	1970.1	1458.4
42.5°	2558.3	2547.7	2534.0	2521.8	2505.1	2512.8	2517.2	2321.6	2147.0	2109.0	1559.0
45°	2472.9	2456.9	2466.5	2492.9	2529.4	2572.9	2649.8	2475.2	2307.1	2275.3	1677.1
47.5°	2341.6	2327.2	2357.3	2413.7	2512.8	2623.0	2775.3	2644.8	2498.3	2466.7	1845.4
50°	2157.0	2161.3	2204.2	2307.0	2456.7	2646.2	2929.9	2869.3	2776.2	2746.8	2074.9
52.5°	1854.0	1854.8	1975.8	2144.5	2357.3	2634.2	3015.6	3156.3	3155.7	3120.1	2293.5
55°	1572.7	1589.8	1685.6	1909.7	2196.1	2586.4	3075.6	3295.8	3404.9	3363.1	2497.2
57.5°	1297.8	1307.9	1398.6	1623.7	1966.2	2459.0	3137.0	3463.3	3692.1	3665.7	2750.4
60°	985.2	1000.6	1094.5	1302.5	1672.1	2232.9	3142.8	3638.1	4035.3	4008.7	3033.2
62.5°	639.5	666.1	754.0	948.8	1316.3	1907.8	3008.7	3752.4	4360.7	4351.2	3284.1
65°	367.5	387.6	448.7	599.0	908.1	1499.6	2689.7	3708.5	4560.9	4555.5	3377.9
66°	300.3	312.8	359.6	468.1	749.3	1316.9	2504.3	3615.8	4580.8	4581.0	3367.1
67.5°	240.1	245.7	266.7	335.2	552.9	1043.8	2173.0	3411.3	4556.1	4562.8	3297.6
70°	198.7	201.6	208.1	224.7	301.8	629.4	1542.4	2879.9	4308.4	4313.6	3026.0
72.5°	178.3	180.0	182.5	184.8	213.0	351.7	942.1	2303.9	3777.5	3784.2	2612.2
75°	161.5	162.5	162.1	162.3	178.7	224.1	486.8	1720.1	3054.4	3040.9	2001.1
77.5°	141.8	142.8	140.9	141.3	158.0	172.3	242.3	1204.2	2061.2	1966.0	1127.5
80°	119.9	120.6	119.9	121.2	137.6	130.1	140.9	677.4	911.4	862.1	400.9
82.5°	90.6	93.9	96.2	101.6	113.3	92.5	94.2	263.8	277.5	264.2	123.0
85°	39.7	48.4	72.5	77.7	85.2	55.5	61.9	107.5	112.9	109.5	44.7
87.5°	10.4	11.4	35.8	45.1	47.2	25.1	32.2	49.0	51.7	49.0	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317395  
 CATALOG NUMBER: GAN-SA1B-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4
2.5°	524.2	514.8	497.8	482.8	471.4	463.7	456.0	452.1	449.8	447.5	447.9
5°	541.0	521.9	492.8	472.2	460.6	453.3	449.4	447.9	446.9	444.6	444.6
7.5°	566.2	539.3	499.2	478.0	468.9	463.3	461.0	460.2	459.1	456.4	456.8
10°	598.0	560.3	512.5	491.8	483.6	477.4	474.1	473.0	470.8	467.8	468.1
12.5°	635.4	586.3	530.0	508.4	498.4	490.1	484.7	481.4	477.8	473.7	473.9
15°	676.3	614.6	548.9	523.3	509.6	498.0	489.3	483.7	478.0	473.0	472.8
17.5°	717.7	642.0	563.3	531.4	512.8	497.6	485.9	477.2	470.1	463.9	463.3
20°	762.4	666.6	571.4	530.6	506.7	488.6	473.0	462.2	454.3	448.1	447.1
22.5°	807.9	689.8	572.8	522.7	493.0	470.8	454.5	442.5	434.4	428.0	425.7
25°	849.5	707.7	567.2	507.5	473.9	450.0	434.0	421.9	415.3	407.8	405.5
27.5°	887.5	720.2	556.0	488.0	452.5	429.0	414.0	403.6	396.4	390.7	388.7
30°	921.6	727.0	537.7	464.9	430.6	409.2	396.4	389.3	383.1	375.8	374.5
32.5°	954.0	727.0	514.2	439.6	408.8	391.6	384.1	379.7	372.7	365.6	363.7
35°	986.4	722.5	486.4	413.2	388.7	379.1	378.7	373.5	362.9	353.3	350.8
37.5°	1020.5	713.5	455.2	388.5	372.4	373.5	376.8	365.2	350.2	336.5	332.8
40°	1059.0	701.0	422.8	367.1	358.7	371.0	371.6	353.3	324.0	311.4	308.2
42.5°	1104.3	688.4	392.8	348.3	347.9	363.5	361.8	327.4	309.9	303.5	301.8
45°	1163.9	681.3	364.3	330.3	339.4	351.3	345.0	313.2	305.9	302.2	300.7
47.5°	1257.7	685.0	338.0	316.1	330.9	339.2	313.8	307.4	302.2	297.8	296.2
50°	1375.3	682.8	316.8	306.2	321.3	326.5	299.7	299.9	297.2	292.2	289.9
52.5°	1463.8	666.3	303.2	300.7	312.8	303.9	290.8	292.6	291.2	283.9	281.4
55°	1549.1	652.0	296.2	298.5	306.6	275.8	280.4	284.7	283.3	276.2	275.0
57.5°	1655.3	649.3	292.0	299.1	301.4	261.7	270.4	276.0	275.0	271.9	271.4
60°	1785.4	650.1	288.1	300.1	295.6	251.3	261.0	268.1	268.7	268.1	267.7
62.5°	1856.9	629.1	278.5	297.4	285.4	242.3	251.1	261.5	261.7	262.9	262.7
65°	1796.2	566.2	260.6	287.9	268.3	234.7	242.6	254.0	251.1	256.3	256.3
66°	1737.2	530.0	251.7	281.8	261.0	231.9	239.9	250.2	246.5	253.6	253.6
67.5°	1616.8	468.9	235.7	268.7	250.5	227.8	236.9	243.8	238.8	249.4	248.6
70°	1396.7	362.7	203.5	239.0	233.4	221.8	232.6	231.1	223.8	239.9	236.9
72.5°	1177.6	275.6	163.4	200.1	207.4	214.3	226.6	214.9	205.6	217.0	210.3
75°	913.7	207.2	129.1	155.5	175.2	202.6	219.5	196.2	182.9	181.7	178.1
77.5°	494.0	142.2	102.3	118.7	139.1	187.9	214.7	176.2	156.1	151.5	148.6
80°	195.6	92.5	74.4	90.0	97.3	166.7	203.1	152.8	128.7	124.1	119.7
82.5°	80.8	54.7	48.0	60.3	63.4	142.6	182.3	125.3	99.4	137.6	146.1
85°	34.7	30.1	28.5	31.2	35.8	100.0	145.1	95.6	107.3	95.8	76.1
87.5°	10.4	12.7	12.1	11.9	13.1	23.9	77.3	53.2	78.8	29.9	22.4
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)