

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: P321895

Luminaire Tested: **GAN-SA1D-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5262.9 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - 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

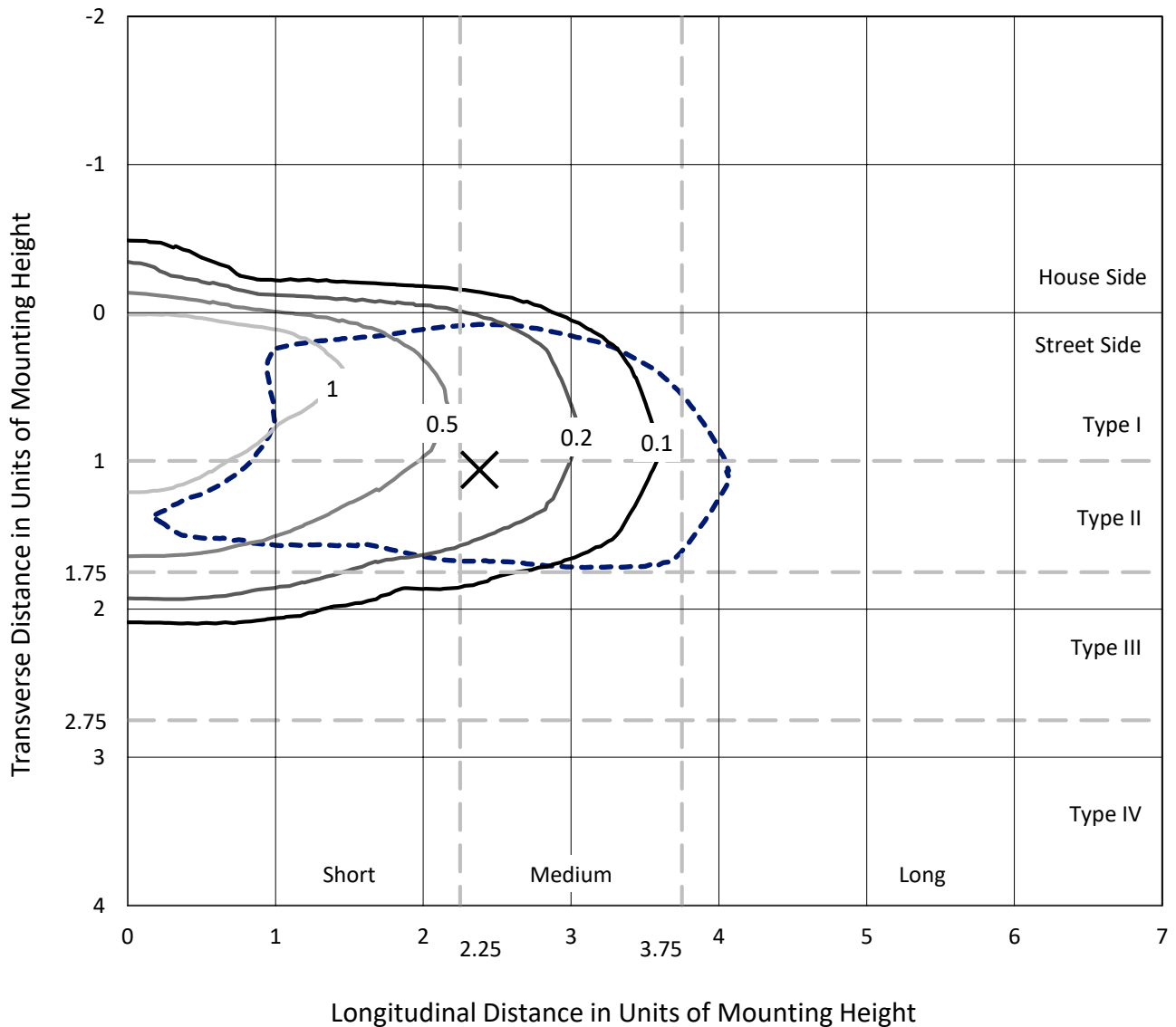




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### Iso-Footcandle Lines of Horizontal Illumination

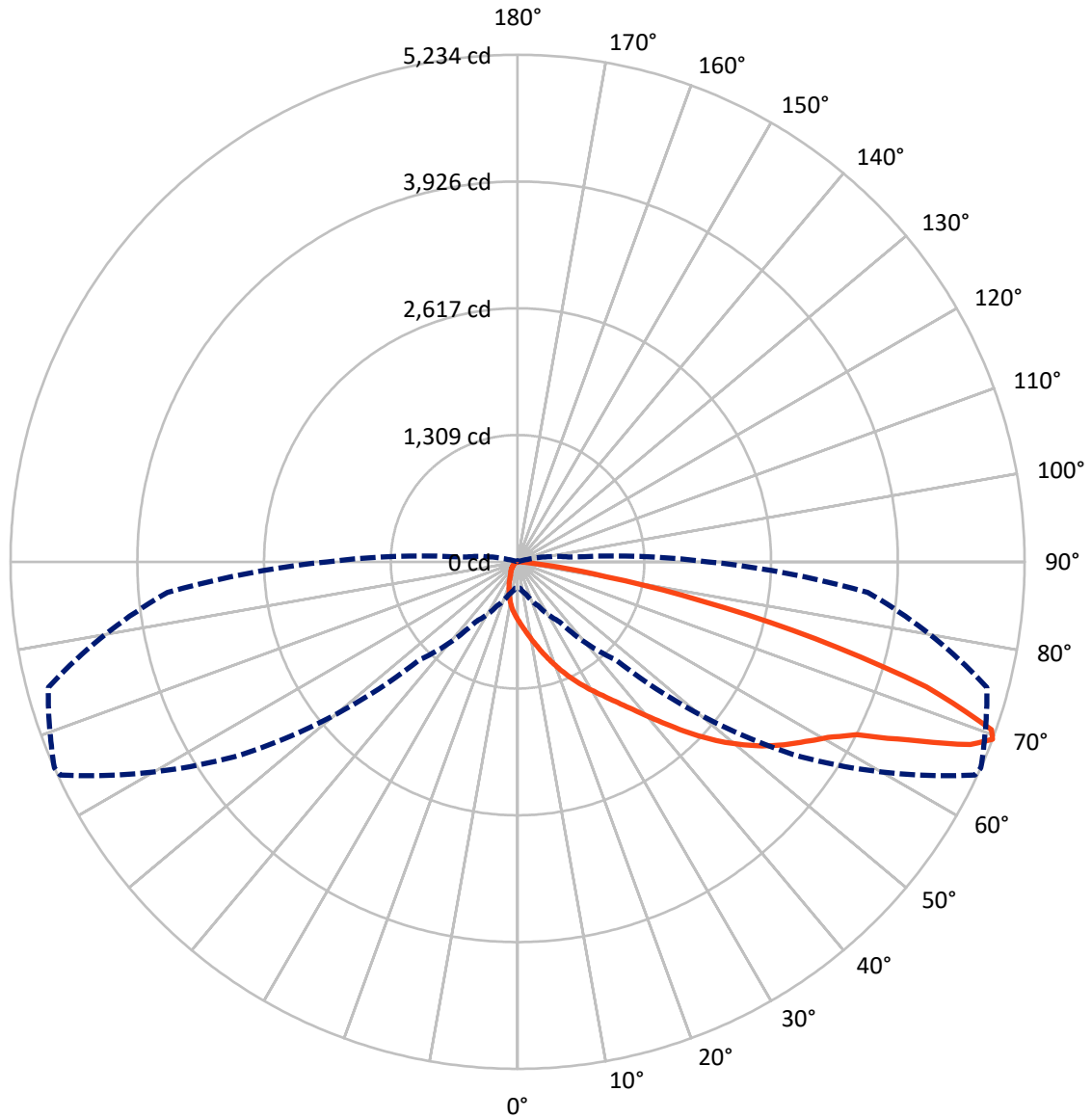
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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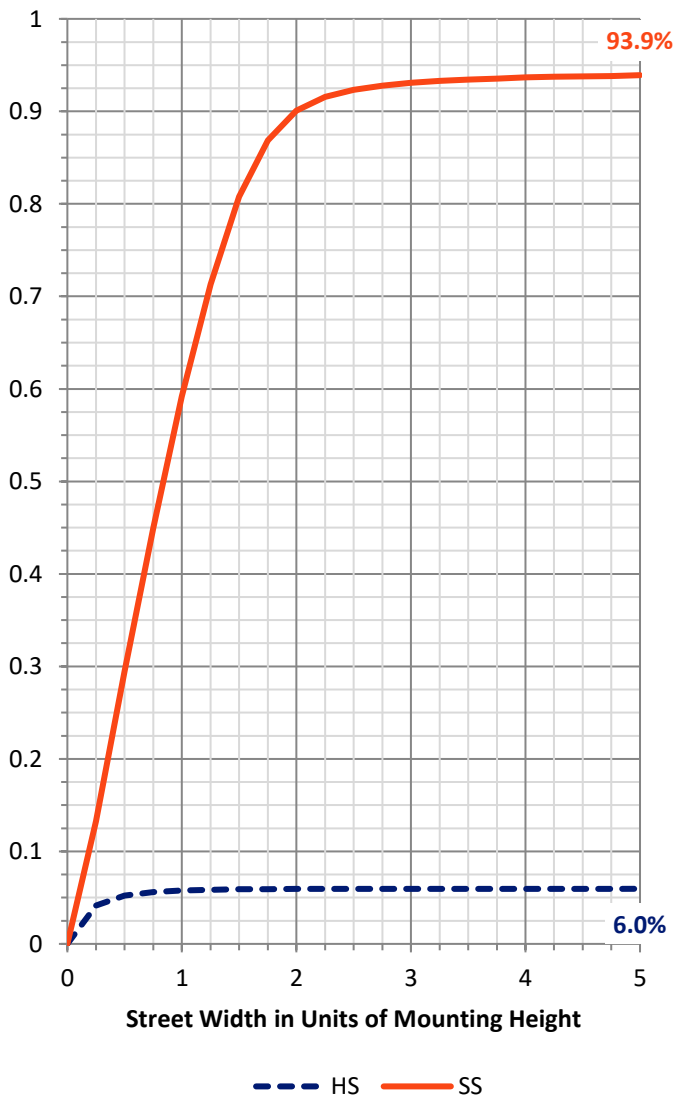
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	315.7	0.0	315.7
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	4947.3	0.0	4947.3
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	5262.9	0.0	5262.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	172.3	3.3
20°-30°	300.1	5.7
30°-40°	526.4	10.0
40°-50°	881.2	16.7
50°-60°	1295.3	24.6
60°-70°	1329.9	25.3
70°-80°	656.5	12.5
80°-90°	43.4	0.8
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°	5262.9	100.0
0°-180°	5262.9	100.0

**Coefficient of Utilization**

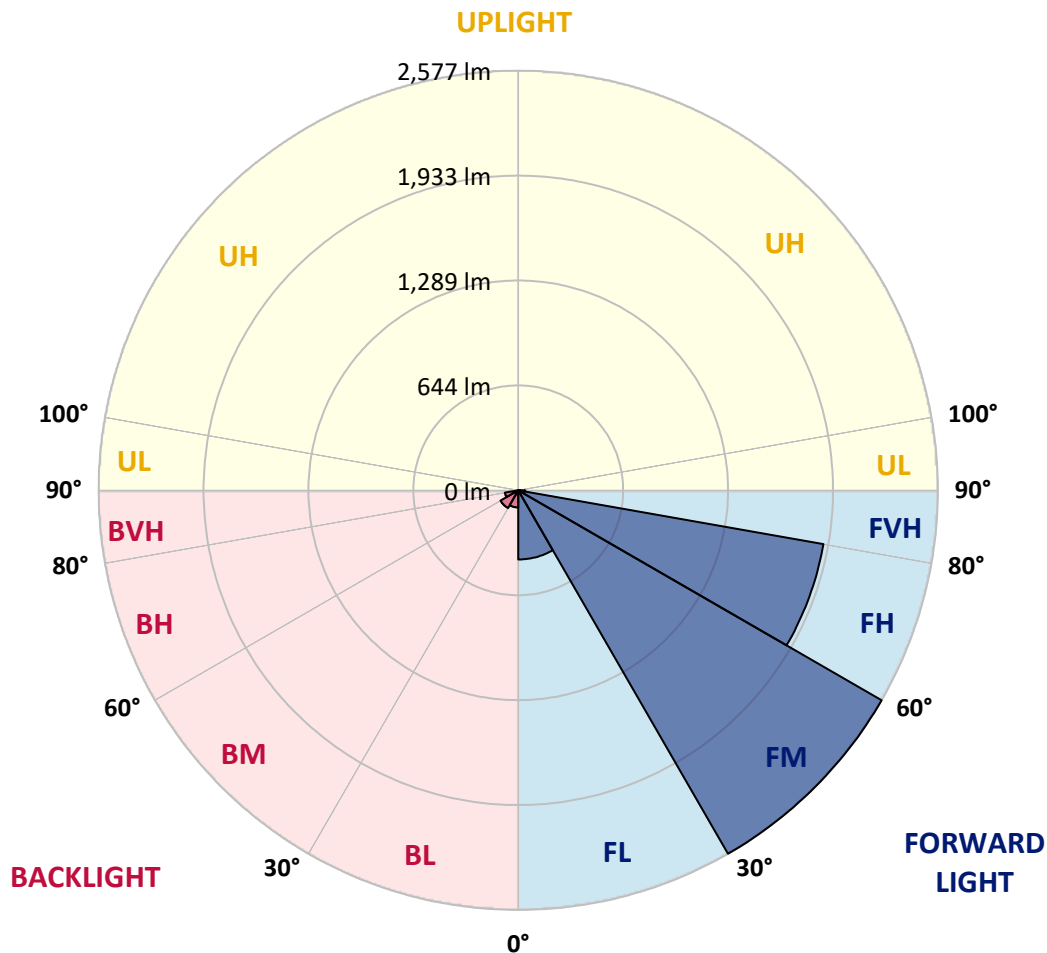


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.7	8.1			
FM (30°-60°)	2577.0	49.0			
FH (60°-80°)	1903.2	36.2			G2/5000
FVH (80°-90°)	42.3	0.8			G1/100
BL (0°-30°)	105.6	2.0	B0/110		
BM (30°-60°)	125.9	2.4	B0/220		
BH (60°-80°)	83.2	1.6	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9
2.5°	704.9	701.9	700.7	695.2	685.7	678.4	664.4	648.2	645.2	629.4	610.2
5°	796.4	793.9	792.2	784.4	774.7	756.4	730.9	700.7	694.9	664.9	626.4
7.5°	860.2	864.7	864.7	859.7	847.4	833.7	802.4	761.2	753.9	707.9	648.2
10°	897.4	902.9	907.2	911.4	909.7	904.2	874.7	828.2	819.4	758.4	673.4
12.5°	900.9	906.4	918.4	936.2	953.4	965.9	947.4	902.4	892.4	816.9	703.4
15°	881.4	887.2	905.7	940.2	981.9	1018.4	1024.4	984.7	974.4	886.7	740.9
17.5°	847.4	851.2	877.7	925.4	990.9	1057.9	1094.2	1072.9	1063.4	966.4	782.7
20°	822.2	824.9	848.2	899.4	985.4	1082.7	1160.1	1166.6	1156.6	1051.9	827.9
22.5°	865.4	870.4	871.2	895.4	970.4	1094.9	1218.1	1258.9	1251.4	1142.6	872.4
25°	983.7	989.4	970.4	955.4	983.2	1100.4	1267.9	1353.4	1347.4	1240.4	917.2
27.5°	1139.9	1145.9	1121.4	1076.7	1049.9	1121.1	1312.1	1449.4	1449.1	1343.9	965.4
30°	1293.4	1299.4	1274.4	1229.6	1168.1	1179.9	1350.4	1549.9	1551.4	1450.6	1016.7
32.5°	1454.4	1461.9	1436.1	1378.6	1314.4	1281.4	1404.1	1650.9	1659.4	1574.4	1074.4
35°	1637.4	1638.4	1602.1	1541.9	1467.9	1417.1	1490.4	1764.1	1784.3	1727.6	1147.6
37.5°	1816.8	1824.1	1794.3	1699.3	1631.4	1573.9	1618.6	1905.6	1934.3	1914.8	1243.4
40°	1949.8	1965.1	1960.8	1858.3	1793.8	1752.8	1777.8	2073.8	2110.3	2132.8	1364.1
42.5°	2033.3	2044.8	2064.3	2002.6	1944.1	1950.8	1965.8	2269.8	2314.8	2381.3	1502.9
45°	2129.1	2134.6	2150.8	2123.6	2084.1	2152.1	2165.3	2490.5	2537.8	2648.5	1656.9
47.5°	2246.0	2259.0	2263.5	2238.5	2220.6	2330.0	2357.5	2691.3	2757.5	2934.7	1819.8
50°	2395.0	2398.5	2406.3	2390.0	2372.0	2483.0	2530.0	2902.0	2962.2	3222.0	1980.6
52.5°	2540.8	2553.3	2580.3	2570.0	2562.8	2613.3	2683.8	3092.0	3159.2	3461.4	2141.1
55°	2582.8	2593.5	2686.8	2750.5	2809.5	2773.8	2830.7	3262.2	3335.0	3675.4	2295.5
57.5°	2415.0	2436.8	2598.3	2764.3	3009.0	3023.2	3032.7	3436.9	3502.2	3839.4	2456.3
60°	1991.1	1995.3	2260.3	2545.0	2976.0	3241.0	3327.7	3624.7	3679.4	3992.1	2648.8
62.5°	1266.4	1309.6	1600.4	2002.3	2627.0	3209.5	3684.4	3908.6	3928.6	4175.4	2924.7
65°	603.2	631.2	840.7	1237.1	1902.8	2806.2	3930.6	4422.4	4431.4	4538.6	3293.5
67.5°	334.0	347.5	447.2	665.9	1112.4	1984.6	3831.2	5030.8	5039.3	4909.6	3616.9
69°	261.2	272.7	351.2	502.0	754.2	1426.4	3466.9	5209.0	5234.3	5015.8	3628.4
70°	221.7	233.0	302.5	424.0	606.4	1102.2	3086.0	5164.8	5191.5	5005.8	3542.7
72.5°	135.7	142.2	201.5	298.5	406.5	554.5	1903.1	4367.9	4413.1	4591.8	3044.7
75°	91.5	95.0	126.0	206.0	290.7	285.5	988.7	3078.7	3176.7	3571.9	2248.8
77.5°	65.5	68.7	84.5	133.2	203.7	188.5	447.7	1913.3	1934.3	2142.3	1226.4
80°	37.2	40.2	59.7	79.2	138.2	125.7	178.0	913.9	924.4	918.7	409.5
82.5°	19.5	22.0	32.7	52.2	88.7	82.2	74.0	306.0	307.5	255.7	89.7
85°	3.7	4.5	16.2	35.7	45.7	35.7	30.2	71.7	73.2	64.7	22.2
87.5°	0.0	0.2	6.5	8.0	9.0	9.2	9.7	14.0	15.0	20.2	6.0
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°	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9
2.5°	601.7	592.7	575.4	555.5	540.0	524.7	512.7	500.2	495.7	493.5	493.2
5°	607.7	588.7	552.2	514.7	484.0	455.0	434.2	414.5	405.2	401.0	399.2
7.5°	617.7	587.2	528.5	471.2	427.0	390.7	362.0	340.5	329.7	325.2	323.5
10°	629.4	585.2	500.7	425.2	368.7	331.2	302.7	281.5	269.7	264.7	262.2
12.5°	643.2	581.7	468.7	378.7	319.0	281.5	247.0	220.7	207.2	201.5	198.7
15°	660.2	578.2	435.2	335.0	275.2	229.5	191.7	174.0	171.2	170.2	170.5
17.5°	676.9	572.7	398.7	291.7	229.2	179.2	160.0	159.0	159.5	159.5	159.5
20°	691.9	560.2	359.0	254.7	185.5	151.2	147.2	145.5	144.2	143.2	142.0
22.5°	703.7	543.5	320.7	218.0	151.5	138.5	132.2	126.7	122.2	119.2	117.7
25°	711.7	521.2	285.7	182.7	136.2	126.0	114.7	105.5	98.5	94.2	92.5
27.5°	717.7	497.2	254.5	153.0	125.7	111.5	96.7	85.7	78.5	74.7	73.2
30°	721.9	470.0	227.0	134.5	114.0	96.2	80.5	69.7	64.5	62.5	61.5
32.5°	725.9	439.7	201.0	125.7	103.0	82.2	67.5	59.2	56.0	53.5	52.7
35°	735.9	411.7	176.2	116.5	91.7	70.2	58.0	52.0	48.7	47.2	46.7
37.5°	759.7	391.0	152.5	107.0	80.5	60.7	50.7	46.5	43.5	42.0	41.5
40°	797.9	380.5	132.5	96.7	69.5	53.5	46.0	42.0	38.7	36.5	36.0
42.5°	854.2	382.0	118.5	86.5	60.7	47.7	41.5	36.7	33.2	31.2	30.7
45°	922.4	393.0	108.7	76.5	53.5	43.2	36.5	31.5	28.2	26.5	26.0
47.5°	996.4	410.7	100.7	67.5	47.7	39.0	31.5	26.2	23.5	22.0	21.7
50°	1074.4	428.0	92.5	58.7	42.7	34.7	26.5	21.7	19.5	18.2	17.7
52.5°	1153.4	448.0	85.0	50.7	38.5	29.7	22.0	17.7	16.0	15.0	14.5
55°	1238.4	463.0	77.7	44.5	34.2	25.2	18.2	14.7	13.2	12.0	11.7
57.5°	1338.4	486.2	70.2	38.5	29.2	21.0	15.0	11.7	10.5	9.2	9.0
60°	1473.4	513.5	62.2	34.0	24.0	17.2	12.2	9.5	8.0	7.0	6.7
62.5°	1651.4	543.7	52.2	29.7	19.5	14.0	9.7	7.5	5.7	4.5	4.5
65°	1877.1	592.9	42.7	25.0	16.0	11.5	7.5	5.5	3.2	2.0	2.0
67.5°	2008.8	601.4	34.5	20.5	13.0	9.7	6.2	3.7	1.0	0.2	0.0
69°	1966.6	552.2	29.2	17.5	11.2	9.2	5.7	2.7	0.5	0.0	0.0
70°	1887.1	505.0	25.7	15.5	10.2	8.7	5.5	2.0	0.5	0.0	0.0
72.5°	1559.4	359.5	19.5	11.5	7.5	7.7	5.0	1.2	0.5	0.0	0.0
75°	1135.9	218.5	14.0	8.0	4.7	5.7	3.5	0.5	0.2	0.0	0.0
77.5°	631.9	103.0	8.7	4.5	3.0	3.5	1.7	0.0	0.0	0.0	0.0
80°	205.2	28.0	4.0	2.5	1.7	2.0	0.7	0.0	0.0	0.0	0.0
82.5°	38.0	8.0	2.2	1.2	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.2	3.2	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)