

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: P322185

Luminaire Tested: **GAN-SA1A-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3238 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

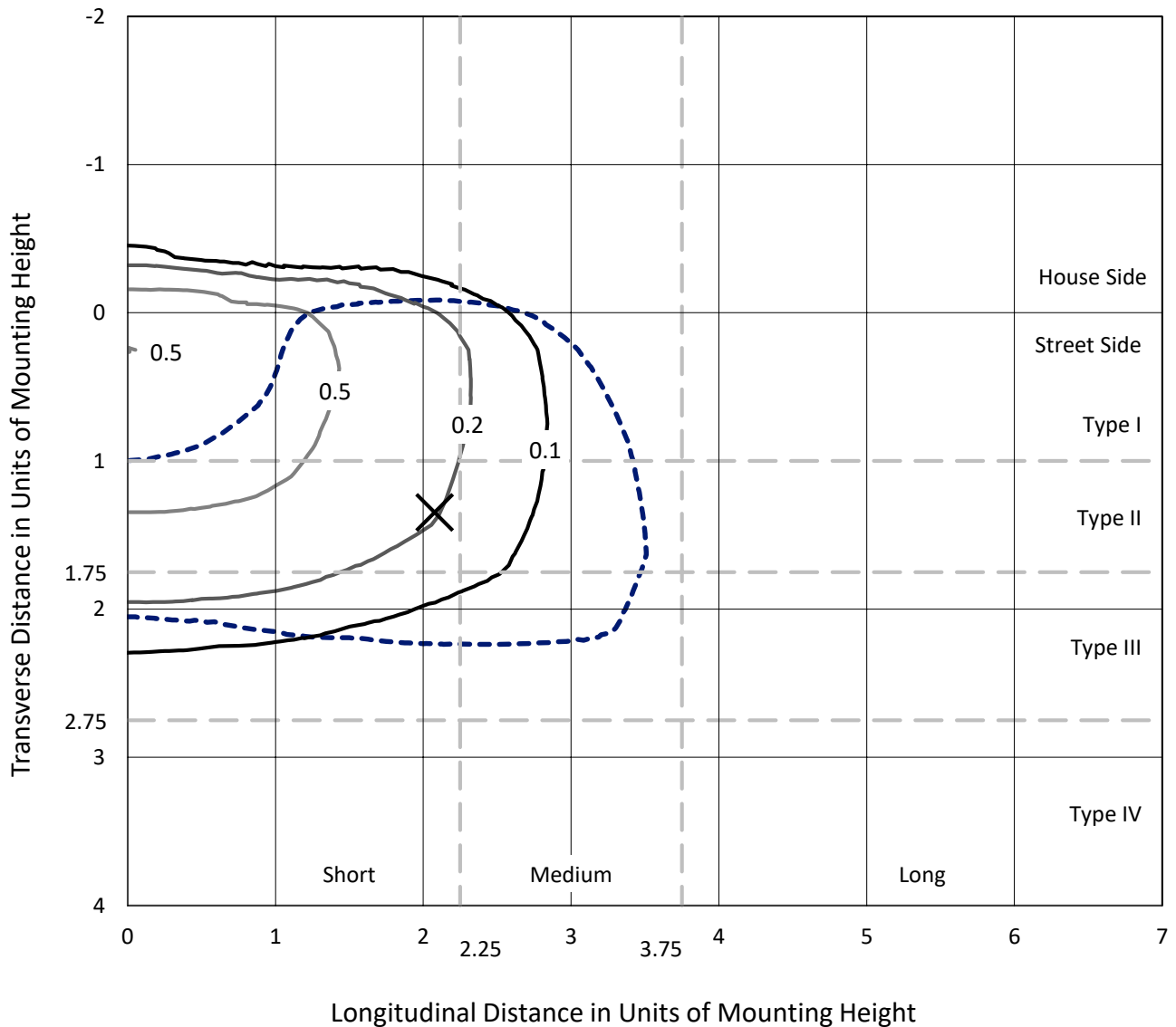
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

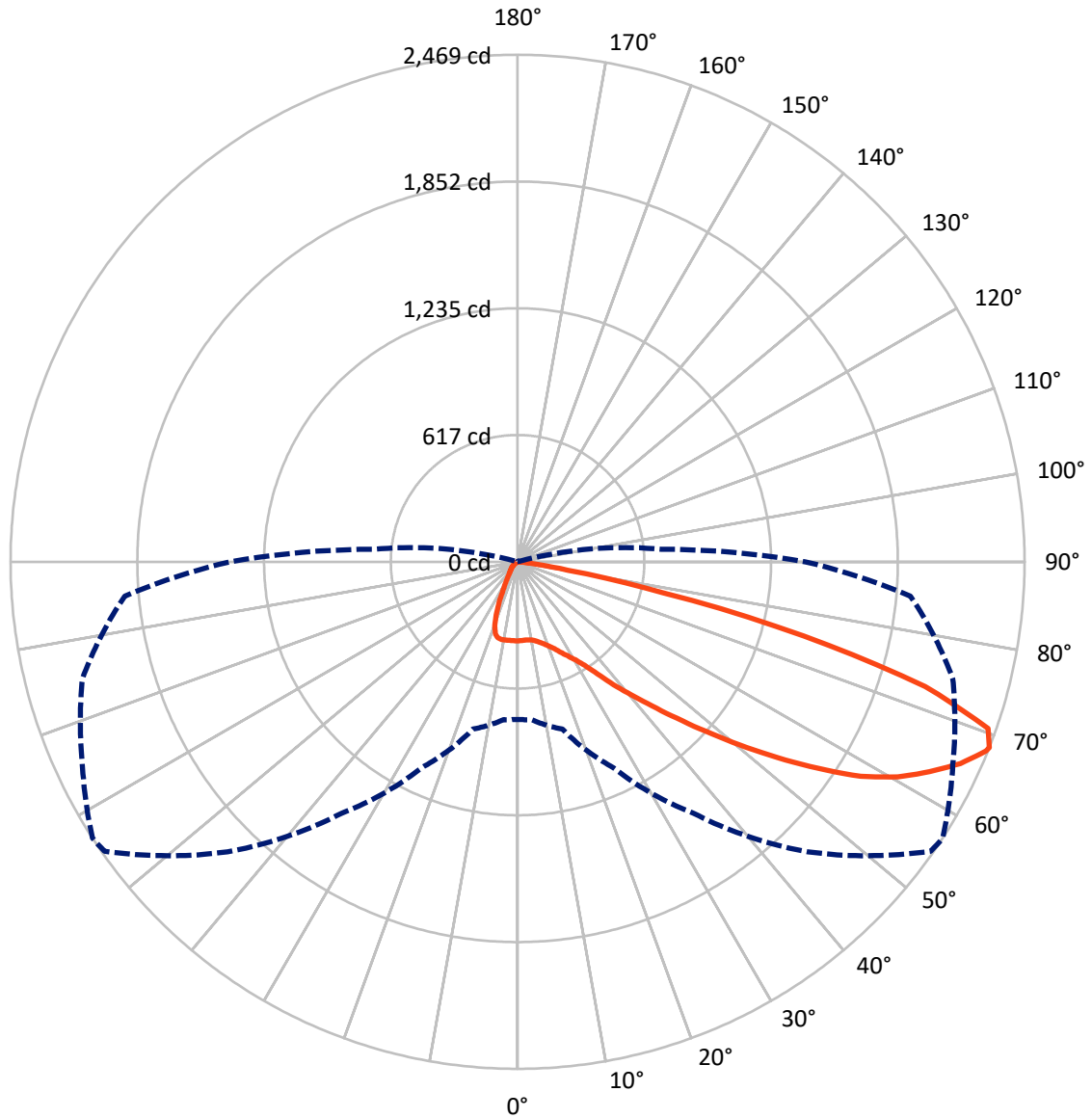
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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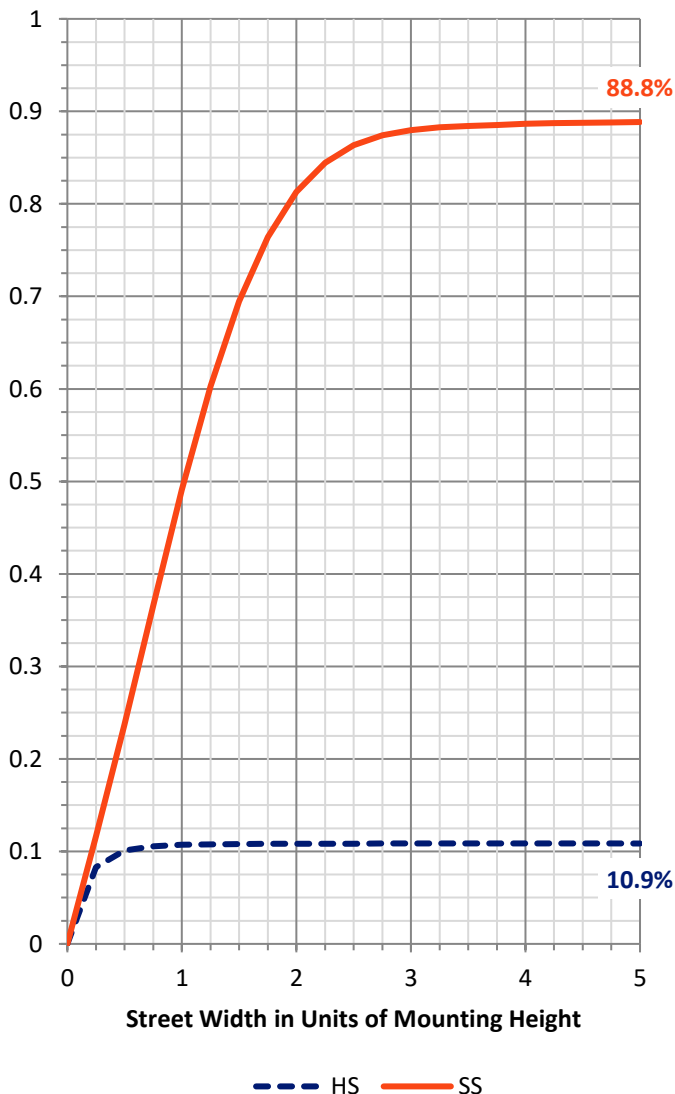
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	355.1	0.0	355.1
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	2882.9	0.0	2882.9
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	3238.0	0.0	3238.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.0	1.1
10°-20°	99.8	3.1
20°-30°	172.1	5.3
30°-40°	297.1	9.2
40°-50°	508.2	15.7
50°-60°	813.0	25.1
60°-70°	939.4	29.0
70°-80°	358.9	11.1
80°-90°	13.5	0.4
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°	3238.0	100.0
0°-180°	3238.0	100.0

**Coefficient of Utilization**

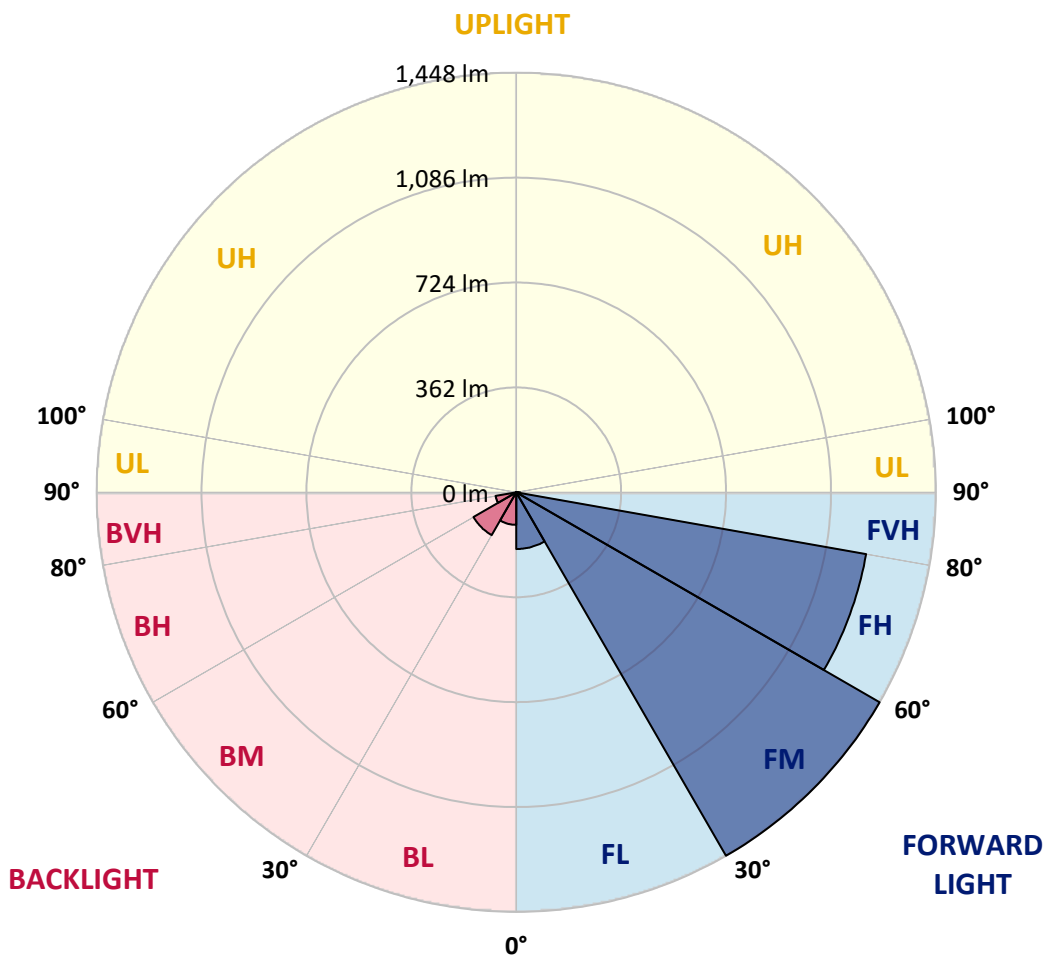


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.7	6.0			
FM (30°-60°)	1448.0	44.7			
FH (60°-80°)	1226.0	37.9			G1/1800
FVH (80°-90°)	13.2	0.4			G1/100
BL (0°-30°)	112.2	3.5	B1/500		
BM (30°-60°)	170.3	5.3	B0/220		
BH (60°-80°)	72.3	2.2	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	375.7	377.4	378.6	379.4	380.3	382.3	382.9	383.8	384.3	384.3	385.4
5°	360.9	362.7	365.3	367.5	371.7	377.3	381.2	382.8	385.5	388.0	389.4
7.5°	347.1	349.2	352.3	357.4	364.7	373.6	381.9	384.0	389.4	394.6	397.2
10°	338.2	339.9	343.9	351.1	360.7	373.1	384.8	387.4	396.5	405.3	410.2
12.5°	335.2	336.7	340.8	348.9	360.9	375.4	391.5	395.3	408.8	421.5	428.4
15°	339.6	339.9	344.3	352.0	363.8	381.1	402.7	407.3	424.3	440.8	449.4
17.5°	356.7	355.4	357.7	361.0	370.4	388.6	414.5	421.4	444.0	463.5	471.6
20°	399.6	399.6	394.4	385.2	385.4	400.2	430.4	438.2	465.9	488.4	495.8
22.5°	472.9	471.6	461.2	438.7	418.0	420.3	449.8	459.9	492.2	516.3	518.7
25°	561.1	559.5	543.4	511.7	475.9	452.7	476.2	487.8	523.6	544.9	539.9
27.5°	654.5	653.2	637.2	597.9	546.9	504.5	507.6	518.6	555.6	576.6	560.5
30°	745.0	745.5	729.7	689.3	631.6	570.5	547.4	553.8	586.7	608.0	585.0
32.5°	831.1	831.7	818.1	772.9	719.0	647.2	602.5	600.8	622.8	643.8	617.5
35°	907.8	909.3	900.0	864.9	807.8	732.6	674.0	670.0	674.1	697.9	667.2
37.5°	981.7	982.6	975.6	946.1	898.3	826.5	764.3	758.6	749.8	768.0	732.9
40°	1062.7	1060.4	1052.3	1025.5	984.5	930.1	861.4	851.6	836.1	852.4	819.3
42.5°	1138.0	1135.4	1136.8	1106.5	1071.9	1036.7	974.5	957.7	948.7	967.3	925.2
45°	1232.2	1230.8	1235.4	1209.1	1181.1	1155.5	1104.2	1085.8	1081.9	1103.8	1053.4
47.5°	1325.1	1328.5	1342.8	1331.6	1320.2	1297.7	1241.6	1233.3	1235.7	1262.2	1188.6
50°	1402.6	1406.6	1445.6	1458.5	1474.9	1461.7	1405.4	1400.3	1410.0	1433.9	1334.0
52.5°	1458.7	1466.8	1515.3	1574.6	1634.3	1643.2	1587.0	1582.4	1595.4	1599.1	1446.4
55°	1497.5	1504.7	1559.7	1668.1	1789.7	1828.0	1793.0	1775.3	1772.8	1736.5	1564.6
57.5°	1504.4	1503.7	1582.7	1728.6	1911.6	2010.3	1988.3	1970.8	1920.6	1863.6	1700.1
60°	1465.5	1470.0	1561.7	1749.6	1988.1	2148.3	2149.9	2127.3	2049.0	1987.2	1831.5
62.5°	1345.8	1363.9	1456.5	1694.6	1987.2	2203.8	2268.4	2251.1	2157.6	2088.4	1964.7
65°	1151.7	1158.1	1246.5	1506.3	1852.9	2180.6	2375.2	2368.7	2255.4	2186.7	2033.1
67.5°	841.0	827.1	919.9	1186.1	1568.7	2044.9	2451.7	2459.8	2330.9	2206.9	1960.2
68°	767.5	771.7	843.9	1107.0	1494.3	1997.0	2456.8	2469.2	2338.4	2193.7	1920.4
70°	457.5	465.4	529.9	762.2	1136.8	1725.8	2402.3	2430.6	2293.7	2057.9	1661.1
72.5°	116.8	126.3	187.3	341.1	649.3	1216.0	2027.9	2075.8	1991.5	1669.5	1121.4
75°	48.1	50.5	66.9	112.4	241.9	547.8	1336.6	1439.2	1380.6	999.5	506.8
77.5°	33.2	34.9	43.0	62.3	104.7	185.7	655.3	729.4	657.1	341.1	110.5
80°	23.9	25.3	30.8	41.5	60.2	66.3	213.6	247.0	196.1	74.9	27.4
82.5°	14.2	15.3	23.0	29.5	36.6	31.7	53.1	60.3	56.8	37.2	12.2
85°	7.0	8.3	15.5	21.1	19.8	13.3	16.2	18.1	22.4	22.7	6.6
87.5°	0.5	0.9	9.0	12.7	5.5	3.1	4.7	5.8	8.0	11.2	2.8
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°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	385.8	386.0	384.9	384.5	384.8	382.9	382.2	382.5	382.5	382.9	382.2
5°	389.7	389.7	387.8	385.4	384.0	380.5	378.2	377.6	377.1	376.8	376.2
7.5°	397.9	397.0	393.8	388.4	383.8	376.2	370.4	367.3	365.8	365.2	364.7
10°	411.2	409.6	404.2	394.3	383.7	370.1	357.4	348.3	340.8	337.8	335.9
12.5°	429.2	426.7	417.7	401.1	382.6	357.5	329.9	303.5	278.8	268.7	263.7
15°	449.8	446.3	432.1	407.0	376.3	329.2	269.3	222.9	188.8	175.9	170.4
17.5°	470.8	466.2	444.6	410.6	357.5	270.5	188.9	142.7	119.9	113.8	111.6
20°	491.9	485.2	455.5	407.9	314.9	195.1	124.6	104.3	97.7	95.8	95.2
22.5°	512.0	501.6	465.3	397.2	249.4	130.9	98.6	92.2	90.0	89.0	88.6
25°	529.4	514.9	473.9	364.1	176.5	98.9	88.8	86.7	83.9	81.9	82.1
27.5°	545.8	528.2	479.1	309.6	117.7	84.5	82.2	79.3	74.3	71.3	71.3
30°	565.6	546.0	482.9	238.2	86.7	74.7	72.9	68.4	61.5	57.7	57.7
32.5°	595.3	572.9	480.5	167.2	71.8	65.7	61.4	55.3	47.8	44.1	43.9
35°	640.8	614.6	463.0	109.6	63.4	57.1	50.2	42.7	36.1	33.1	32.9
37.5°	702.0	670.3	423.8	78.4	56.8	49.1	40.9	32.6	27.7	25.7	25.6
40°	781.5	735.1	367.8	63.5	50.7	41.5	31.5	25.3	21.9	20.4	20.5
42.5°	876.8	804.4	300.6	54.8	44.7	34.1	24.7	19.9	17.8	16.7	16.4
45°	982.8	872.9	230.1	48.8	38.7	27.6	19.3	15.8	14.1	13.5	13.5
47.5°	1099.3	939.5	168.4	43.6	32.3	21.3	15.5	12.9	11.5	11.0	10.9
50°	1205.1	985.7	121.4	38.1	26.5	16.8	12.6	10.7	9.8	9.2	9.2
52.5°	1293.3	1000.3	89.4	32.2	21.4	13.5	10.4	9.2	8.3	7.8	7.8
55°	1370.9	994.3	66.4	26.5	17.3	11.0	8.9	7.8	7.0	6.6	6.6
57.5°	1445.3	975.0	49.6	21.6	13.9	8.9	7.5	6.6	5.8	5.5	5.5
60°	1506.1	942.8	36.9	17.5	11.2	7.2	6.3	5.4	4.7	4.3	4.3
62.5°	1555.4	907.3	27.1	14.4	8.9	5.7	4.9	4.4	3.5	3.1	3.1
65°	1555.7	848.4	20.4	11.9	6.9	4.4	3.7	3.5	2.3	1.8	1.7
67.5°	1443.2	731.4	15.6	10.3	5.4	3.4	2.8	2.9	1.2	0.8	0.6
68°	1402.3	701.7	14.7	10.1	5.1	3.2	2.6	2.9	1.1	0.6	0.5
70°	1182.3	558.2	11.8	9.8	4.4	2.4	2.1	2.9	0.9	0.5	0.3
72.5°	756.2	324.0	8.7	7.8	3.4	1.8	1.4	2.6	0.9	0.3	0.2
75°	321.8	100.4	6.0	5.5	2.0	1.4	0.9	1.7	0.6	0.2	0.0
77.5°	67.8	22.7	3.5	3.4	1.4	0.9	0.6	0.5	0.2	0.0	0.0
80°	17.5	6.6	1.8	1.7	0.8	0.5	0.3	0.0	0.0	0.0	0.0
82.5°	5.5	2.6	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	1.5	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	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)