

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: P322825

Luminaire Tested: **GAN-SA1A-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3220 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

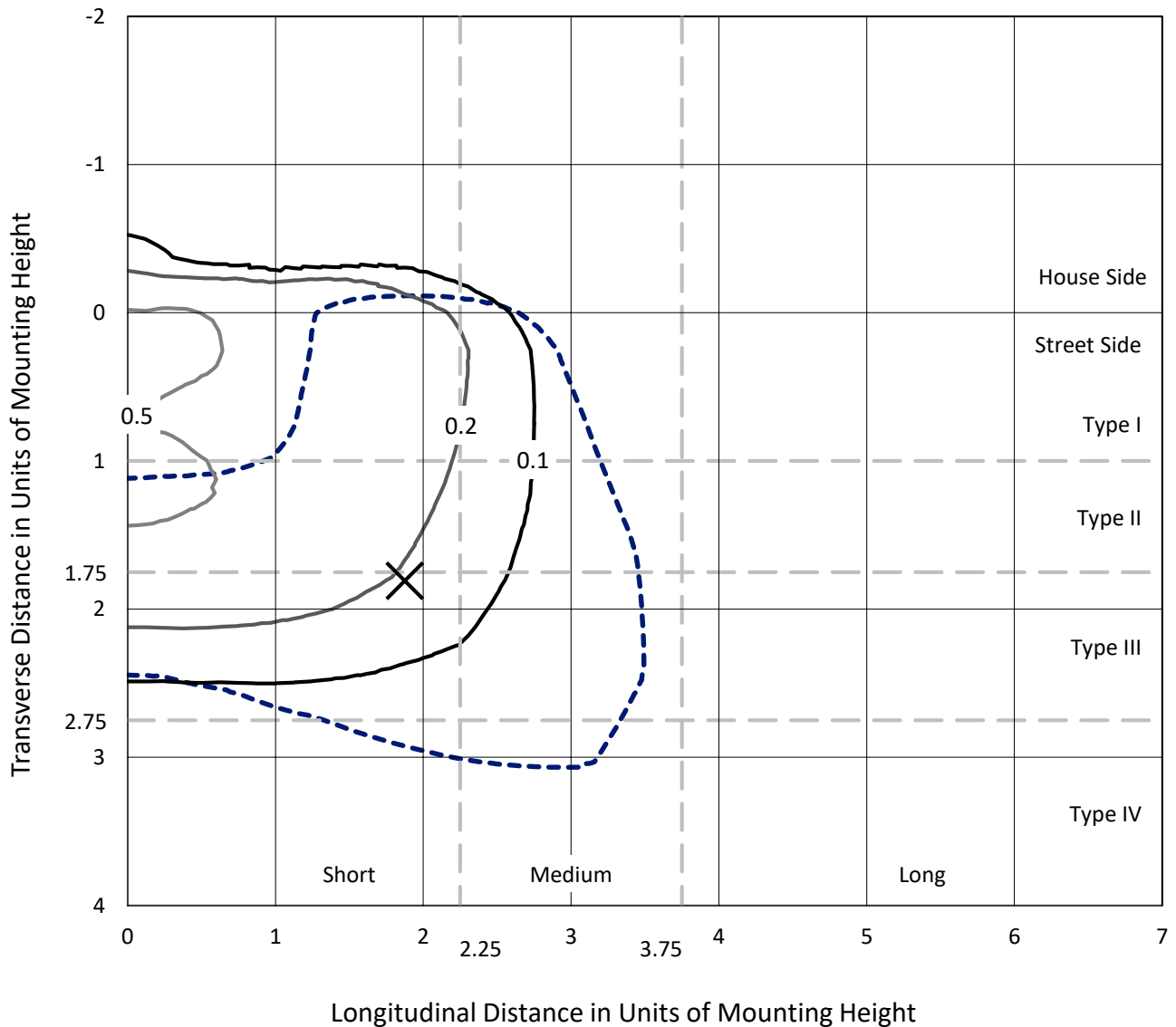
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

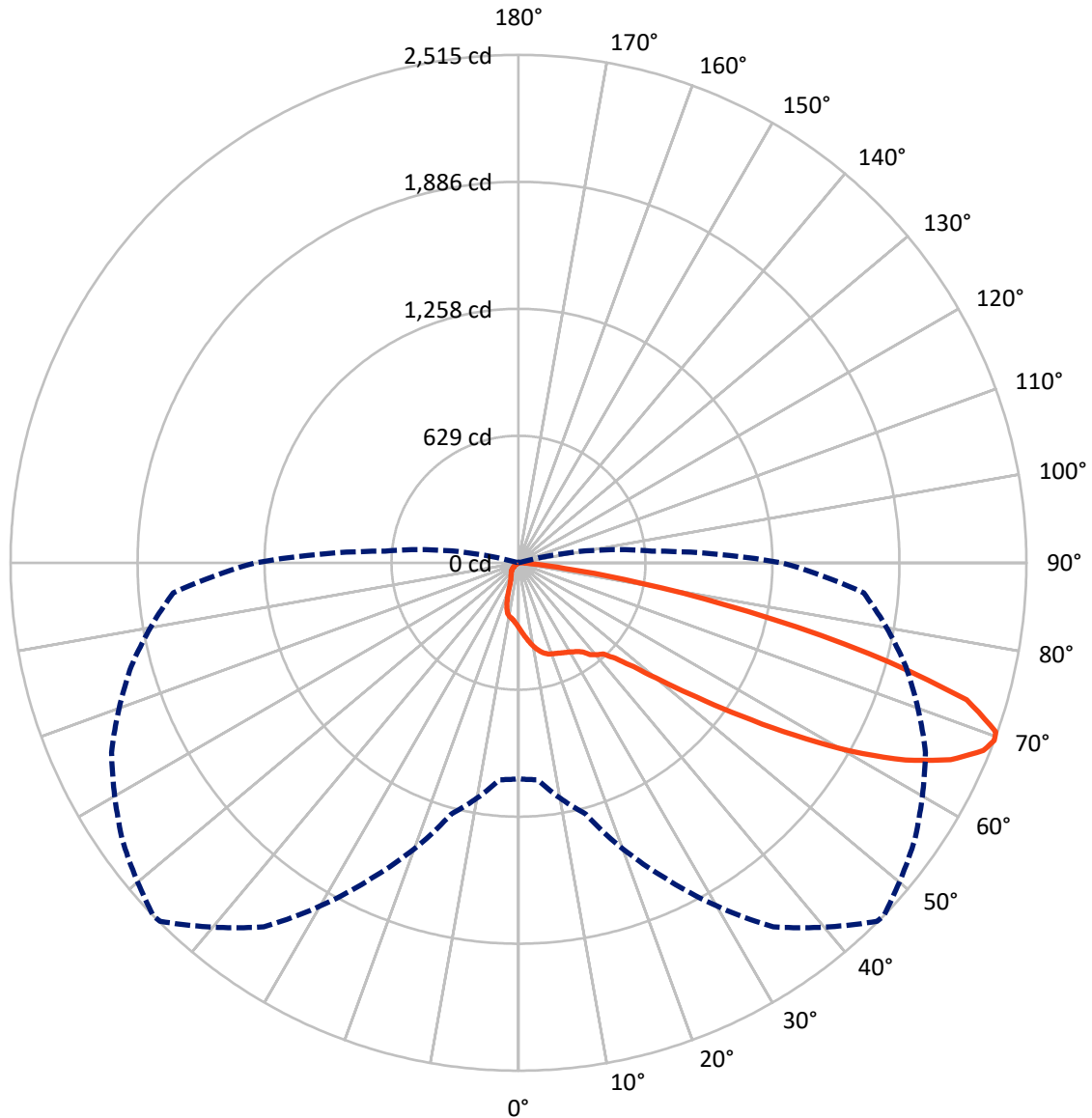
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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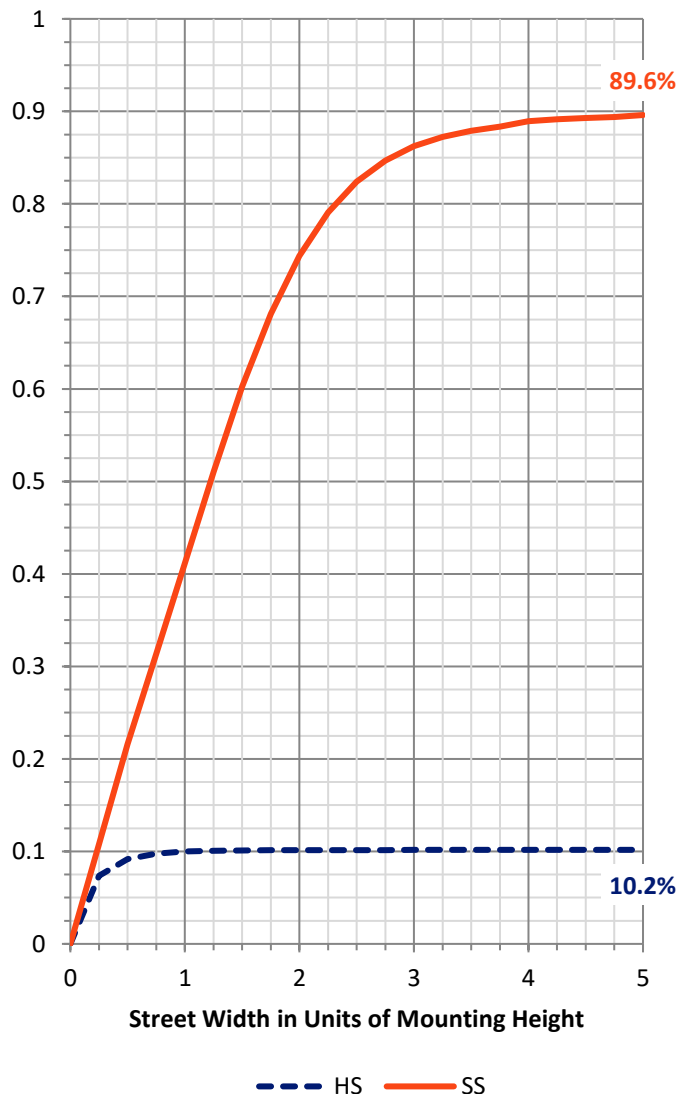
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	330.5	0.0	330.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	2889.5	0.0	2889.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	3220.0	0.0	3220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.1	1.0
10°-20°	97.4	3.0
20°-30°	153.2	4.8
30°-40°	219.7	6.8
40°-50°	379.7	11.8
50°-60°	750.2	23.3
60°-70°	1048.5	32.6
70°-80°	506.5	15.7
80°-90°	32.6	1.0
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°	3220.0	100.0
0°-180°	3220.0	100.0

**Coefficient of Utilization**



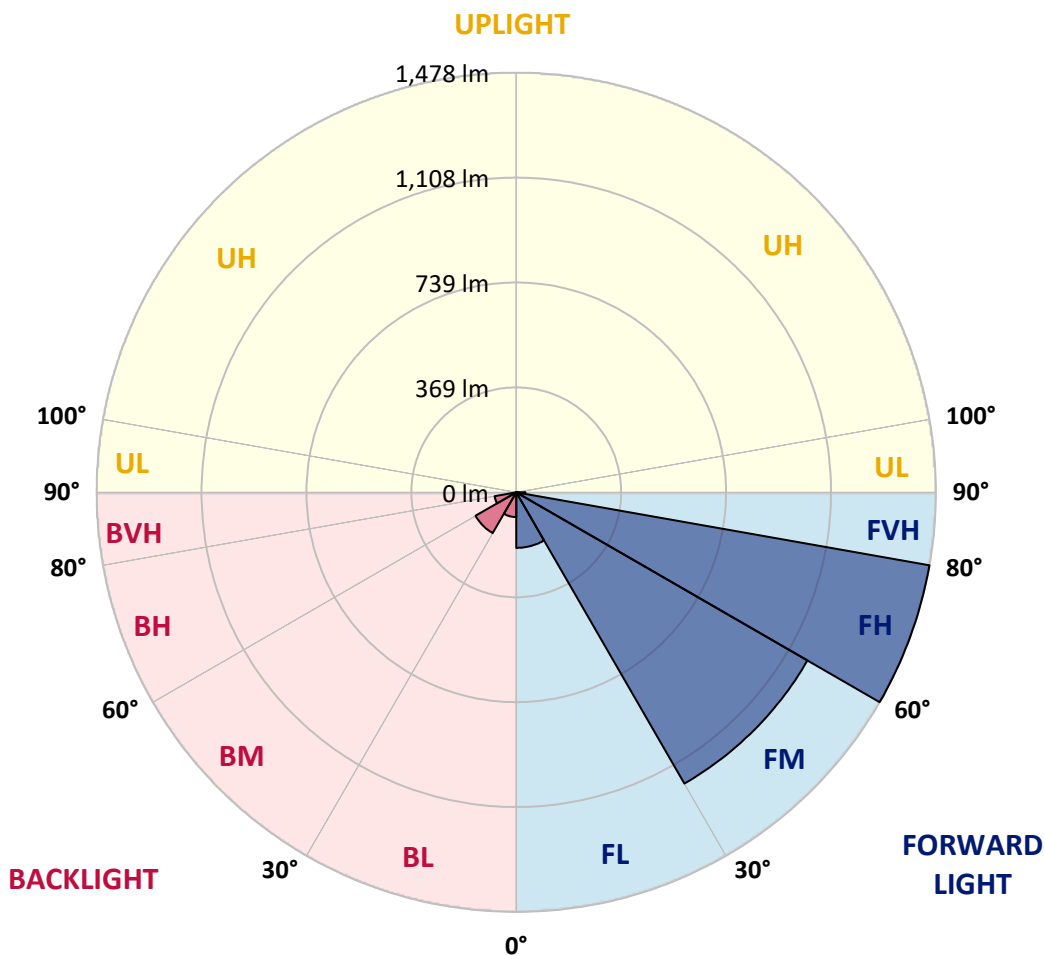
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.7	6.1			
FM (30°-60°)	1184.1	36.8			
FH (60°-80°)	1477.5	45.9			G1/1800
FVH (80°-90°)	32.3	1.0			G1/100
BL (0°-30°)	87.1	2.7	B0/110		
BM (30°-60°)	165.6	5.1	B0/220		
BH (60°-80°)	77.5	2.4	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6
2.5°	358.4	358.0	355.8	354.9	349.8	346.8	345.6	341.8	336.4	330.9	324.9
5°	399.2	399.0	395.1	391.3	381.7	372.6	370.9	362.2	350.0	338.5	327.0
7.5°	440.8	438.9	435.0	427.7	413.7	399.2	397.8	385.4	368.1	351.5	335.0
10°	476.2	475.0	469.8	458.8	442.4	425.9	424.2	409.0	389.4	369.0	348.0
12.5°	503.7	502.7	496.0	482.2	464.7	447.6	445.4	431.8	410.8	388.0	363.2
15°	520.4	520.0	511.7	497.0	479.8	465.0	463.0	451.1	431.6	407.8	379.9
17.5°	524.3	524.5	515.9	501.1	486.9	476.3	474.8	465.8	449.5	425.7	396.5
20°	515.6	517.4	509.7	496.9	488.1	482.5	481.3	475.9	462.1	439.8	409.7
22.5°	503.2	504.1	498.8	490.2	486.6	487.6	487.0	484.0	472.4	451.9	422.9
25°	495.6	495.6	492.5	485.2	487.6	494.1	494.3	493.7	484.5	466.7	438.9
27.5°	495.3	494.4	490.8	485.4	492.0	502.0	502.6	506.7	500.9	484.6	458.8
30°	507.4	506.4	498.7	491.6	500.0	510.7	512.3	521.2	518.3	504.1	481.0
32.5°	535.7	531.9	514.8	503.2	509.5	522.4	524.3	538.5	543.1	528.1	502.4
35°	574.3	562.4	537.8	525.2	525.8	539.3	541.1	561.9	575.4	550.2	519.0
37.5°	627.6	621.7	581.7	548.2	550.9	571.3	576.6	599.2	595.4	562.2	537.9
40°	744.5	735.2	692.7	612.5	574.9	597.3	598.9	611.0	611.3	589.6	577.2
42.5°	903.6	899.8	855.0	729.2	622.2	614.6	617.6	638.0	660.8	647.2	646.6
45°	1079.8	1077.8	1030.2	884.1	717.7	671.5	675.3	702.6	746.3	749.3	768.5
47.5°	1221.5	1220.6	1193.3	1057.0	864.0	768.0	769.2	798.2	874.9	912.8	943.4
50°	1350.8	1355.1	1333.6	1244.0	1063.3	919.1	916.3	935.6	1058.8	1120.8	1158.9
52.5°	1530.4	1536.6	1476.1	1418.6	1272.4	1106.6	1104.4	1124.6	1279.8	1326.3	1333.1
55°	1689.1	1678.5	1630.7	1614.1	1527.4	1338.2	1337.6	1355.4	1493.6	1513.4	1525.9
57.5°	1759.2	1755.1	1778.2	1816.2	1794.5	1612.0	1610.6	1597.0	1684.9	1687.0	1725.5
60°	1803.4	1808.4	1879.2	1996.5	2050.7	1906.5	1897.7	1814.9	1867.6	1862.9	1904.1
62.5°	1770.2	1780.0	1907.4	2102.9	2242.4	2163.6	2151.2	2014.4	2023.7	2007.5	2045.9
65°	1593.8	1609.1	1817.9	2082.8	2337.5	2364.6	2352.0	2190.6	2147.6	2121.0	2099.7
67.5°	1294.2	1303.2	1521.2	1908.2	2294.7	2484.4	2481.9	2345.1	2241.2	2101.9	1936.7
69°	1069.5	1078.4	1288.3	1724.3	2200.3	2510.1	2515.1	2394.6	2223.4	1985.3	1716.0
70°	905.8	915.4	1110.9	1566.7	2090.8	2498.2	2507.1	2389.9	2172.4	1850.3	1522.3
72.5°	475.1	483.3	683.9	1079.3	1704.5	2293.9	2320.9	2187.9	1841.4	1343.8	900.1
75°	149.3	154.0	267.1	564.2	1167.0	1783.6	1789.8	1716.3	1307.6	739.2	374.9
77.5°	56.9	55.6	88.9	207.9	590.0	1123.1	1161.0	1072.5	686.2	261.3	86.5
80°	30.6	30.8	46.2	86.1	252.4	577.2	609.2	519.8	243.8	81.5	19.9
82.5°	13.3	13.9	26.0	45.6	115.9	212.9	228.9	190.5	93.2	54.8	7.4
85°	2.9	3.2	12.5	24.8	47.3	59.8	62.7	61.7	59.3	42.6	2.9
87.5°	0.0	0.0	5.6	8.9	11.9	13.6	11.9	15.6	32.8	28.7	1.5
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°	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6
2.5°	322.9	320.2	315.5	310.4	306.8	303.0	300.0	298.6	297.1	296.1	297.4
5°	322.3	317.0	308.0	299.2	292.9	287.8	283.5	281.9	280.2	279.0	278.8
7.5°	327.6	320.2	306.3	293.5	283.7	276.7	271.0	268.6	266.6	265.7	265.0
10°	337.7	328.2	309.6	292.9	280.2	268.4	256.1	246.5	240.4	237.5	236.4
12.5°	350.9	338.9	316.0	296.1	277.6	255.0	228.7	206.1	191.4	186.6	183.7
15°	366.3	351.5	324.3	300.1	268.3	226.9	182.4	152.8	139.2	136.5	133.5
17.5°	381.1	364.8	334.3	300.9	247.7	181.3	133.6	113.5	108.2	110.1	110.5
20°	394.0	377.9	344.1	294.2	210.5	136.0	103.4	98.4	100.4	103.9	104.5
22.5°	407.2	390.6	353.1	276.7	162.8	103.3	93.2	94.4	96.3	99.8	100.4
25°	423.2	406.0	361.6	244.6	122.1	87.9	88.5	90.3	92.2	95.4	95.7
27.5°	441.6	425.4	367.2	202.8	90.6	80.8	82.7	85.5	87.4	90.4	91.0
30°	466.1	451.1	369.0	159.4	75.9	74.4	75.3	78.7	81.5	84.2	84.7
32.5°	489.0	476.5	362.9	120.3	70.4	68.5	68.5	70.5	73.8	76.4	77.0
35°	510.1	502.0	343.6	88.0	66.1	63.1	61.6	61.6	63.7	65.8	66.4
37.5°	538.1	537.8	312.4	70.2	62.1	58.6	55.4	53.0	52.2	52.7	53.0
40°	585.9	586.4	271.6	63.0	58.6	53.9	49.1	44.7	40.6	39.3	39.1
42.5°	660.7	653.9	228.9	59.5	55.6	49.1	41.8	35.9	29.6	27.6	27.5
45°	779.3	739.0	183.6	56.3	52.4	43.6	34.6	26.6	21.4	19.9	19.9
47.5°	952.2	850.9	142.2	52.8	48.2	37.4	26.1	19.2	15.7	14.9	15.1
50°	1130.9	960.5	109.0	48.5	43.0	30.9	19.3	13.9	11.9	11.9	12.1
52.5°	1289.5	1040.8	85.0	43.8	36.7	24.3	14.6	10.9	10.0	9.8	10.0
55°	1437.9	1092.6	65.1	38.3	29.1	18.1	11.2	8.9	8.3	8.0	7.9
57.5°	1581.0	1118.3	48.8	30.9	21.1	13.1	8.9	7.5	6.9	6.5	6.3
60°	1676.3	1097.4	33.5	22.8	14.6	9.5	7.4	6.5	5.7	5.3	5.1
62.5°	1730.0	1040.5	21.6	16.5	10.4	7.1	5.9	5.4	4.4	3.9	3.9
65°	1708.3	946.6	15.1	11.8	7.5	5.3	4.4	4.4	3.2	2.6	2.4
67.5°	1513.8	799.7	11.5	8.8	5.4	3.9	3.3	3.8	2.0	1.2	1.2
69°	1302.5	662.8	9.8	7.2	4.5	3.2	2.9	3.5	1.4	0.9	0.8
70°	1132.0	571.7	8.9	6.3	3.8	2.7	2.6	3.3	1.4	0.8	0.6
72.5°	677.3	318.9	6.8	4.5	2.4	2.1	2.1	3.8	1.4	0.8	0.6
75°	273.7	112.3	5.0	3.2	1.8	1.8	2.6	4.8	1.2	0.6	0.5
77.5°	62.1	24.6	2.9	2.0	1.2	1.8	3.0	3.8	0.8	0.3	0.0
80°	15.1	6.0	1.8	1.2	0.8	1.4	2.3	2.1	0.2	0.0	0.0
82.5°	5.0	2.1	0.8	0.6	0.2	0.5	1.1	0.6	0.0	0.0	0.0
85°	2.1	1.2	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.4	0.5	0.0	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)