

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: P321865

Luminaire Tested: **GAN-SA1A-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321865  
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-SA1A-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA 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: 3160 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

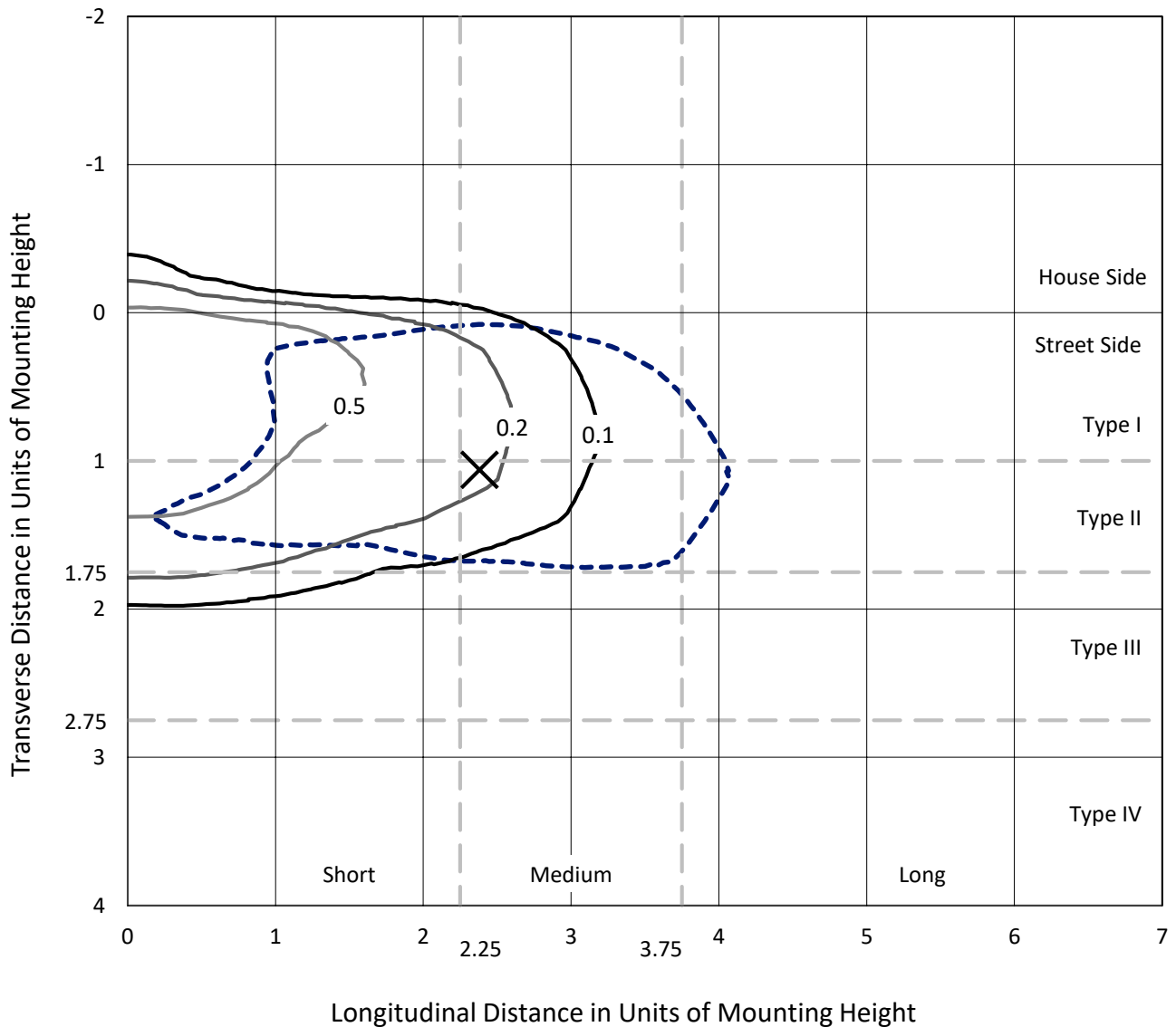
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

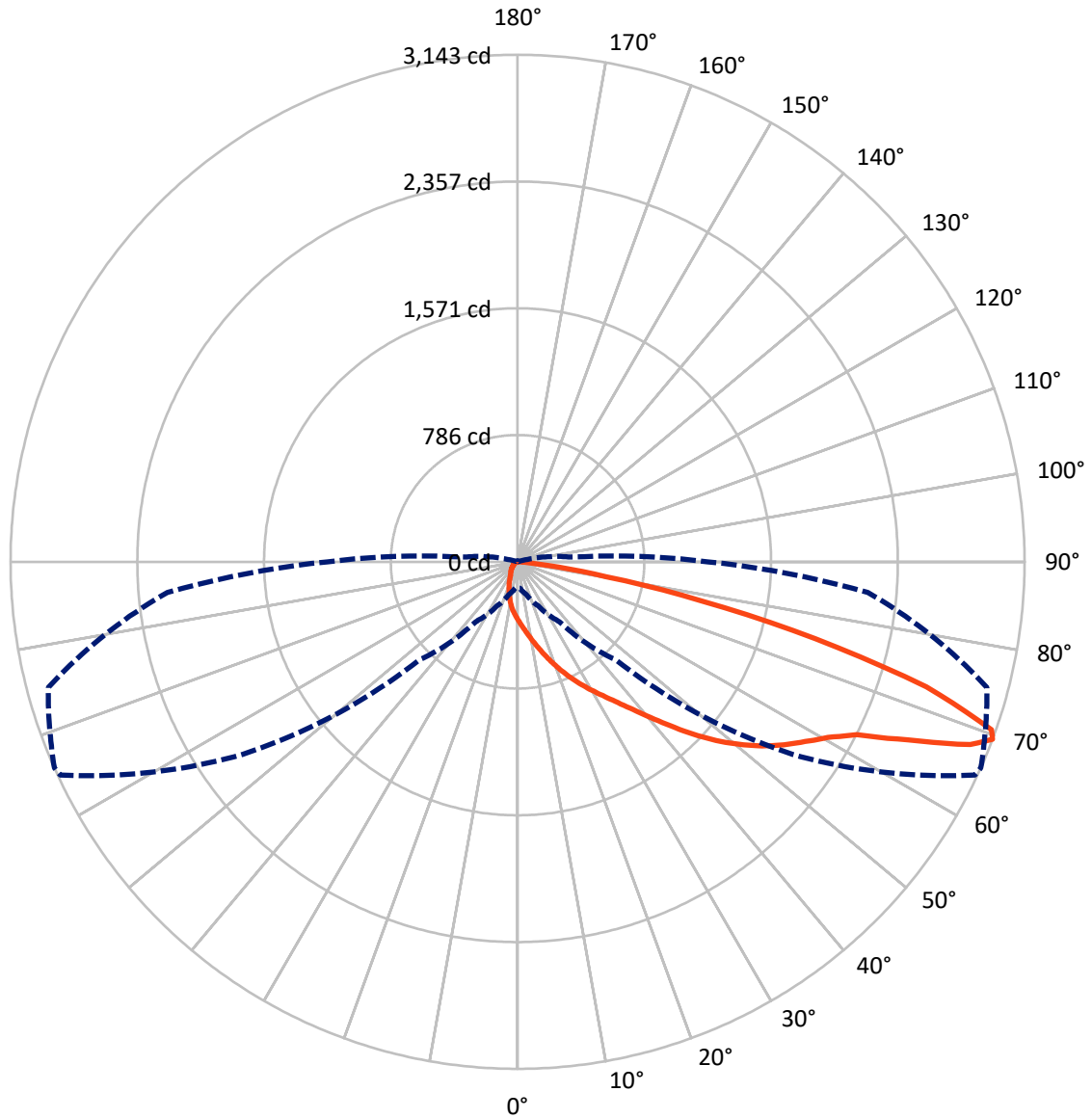
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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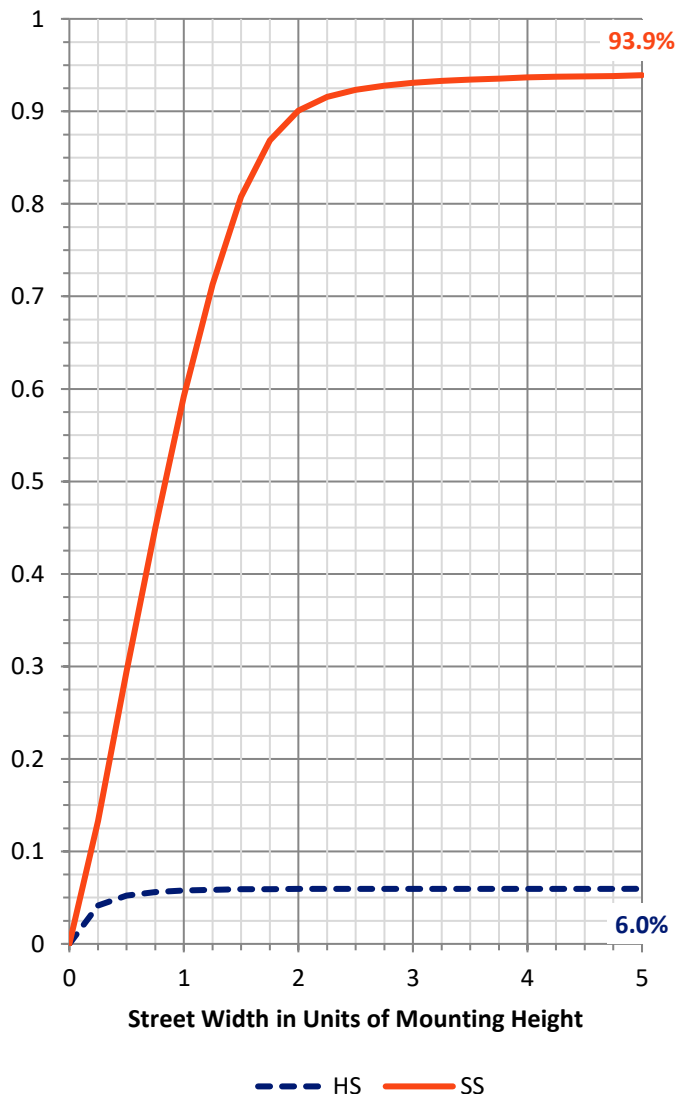
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	189.6	0.0	189.6
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	2970.5	0.0	2970.5
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	3160.0	0.0	3160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.8	1.1
10°-20°	103.5	3.3
20°-30°	180.2	5.7
30°-40°	316.1	10.0
40°-50°	529.1	16.7
50°-60°	777.7	24.6
60°-70°	798.5	25.3
70°-80°	394.2	12.5
80°-90°	26.1	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°	3160.0	100.0
0°-180°	3160.0	100.0

**Coefficient of Utilization**

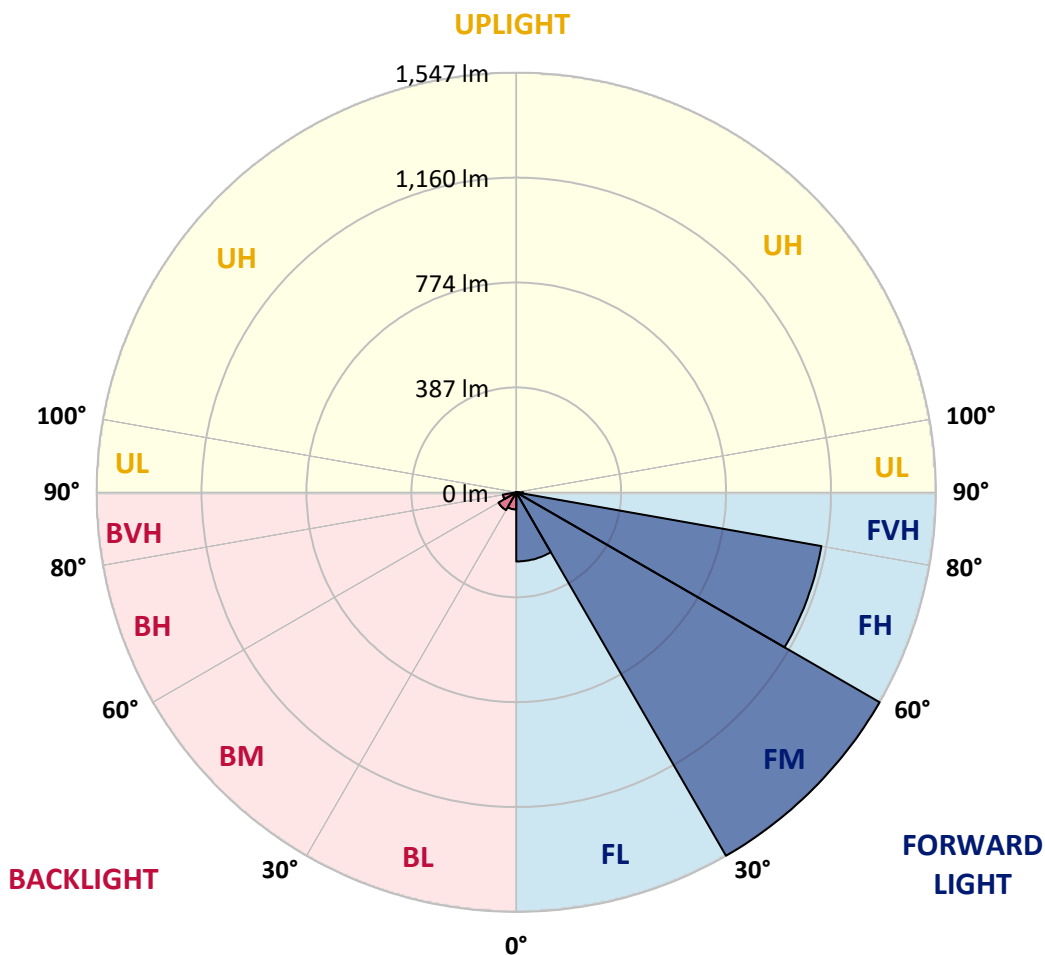


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.0	8.1			
FM (30°-60°)	1547.3	49.0			
FH (60°-80°)	1142.7	36.2			G1/1800
FVH (80°-90°)	25.4	0.8			G1/100
BL (0°-30°)	63.4	2.0	B0/110		
BM (30°-60°)	75.6	2.4	B0/220		
BH (60°-80°)	50.0	1.6	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
2.5°	423.3	421.5	420.7	417.4	411.7	407.3	398.9	389.2	387.4	377.9	366.4
5°	478.2	476.7	475.6	471.0	465.1	454.2	438.9	420.7	417.3	399.2	376.1
7.5°	516.5	519.2	519.2	516.2	508.8	500.6	481.8	457.0	452.7	425.1	389.2
10°	538.8	542.1	544.7	547.2	546.2	542.9	525.2	497.3	492.0	455.4	404.3
12.5°	540.9	544.2	551.4	562.1	572.4	580.0	568.8	541.8	535.8	490.5	422.4
15°	529.2	532.7	543.8	564.5	589.6	611.5	615.1	591.2	585.1	532.4	444.9
17.5°	508.8	511.1	527.0	555.6	595.0	635.2	656.9	644.2	638.5	580.3	469.9
20°	493.6	495.3	509.3	540.0	591.7	650.0	696.6	700.5	694.5	631.6	497.1
22.5°	519.6	522.6	523.1	537.6	582.7	657.4	731.4	755.9	751.4	686.1	523.8
25°	590.6	594.1	582.7	573.6	590.3	660.7	761.3	812.6	809.0	744.8	550.7
27.5°	684.4	688.0	673.3	646.4	630.4	673.2	787.8	870.2	870.1	806.9	579.7
30°	776.6	780.2	765.2	738.3	701.4	708.4	810.8	930.6	931.5	871.0	610.4
32.5°	873.2	877.7	862.3	827.8	789.2	769.4	843.1	991.2	996.3	945.3	645.1
35°	983.1	983.7	961.9	925.8	881.3	850.9	894.8	1059.2	1071.3	1037.3	689.1
37.5°	1090.9	1095.2	1077.4	1020.3	979.5	945.0	971.8	1144.1	1161.4	1149.7	746.6
40°	1170.7	1179.9	1177.3	1115.8	1077.1	1052.4	1067.4	1245.2	1267.1	1280.6	819.0
42.5°	1220.8	1227.7	1239.5	1202.4	1167.3	1171.3	1180.3	1362.8	1389.8	1429.8	902.3
45°	1278.3	1281.6	1291.4	1275.0	1251.3	1292.1	1300.1	1495.4	1523.7	1590.2	994.8
47.5°	1348.6	1356.4	1359.1	1344.1	1333.3	1399.0	1415.5	1615.9	1655.7	1762.1	1092.7
50°	1438.0	1440.1	1444.8	1435.0	1424.2	1490.9	1519.1	1742.4	1778.6	1934.5	1189.2
52.5°	1525.5	1533.0	1549.2	1543.1	1538.7	1569.1	1611.4	1856.5	1896.9	2078.3	1285.5
55°	1550.7	1557.2	1613.2	1651.5	1686.9	1665.4	1699.6	1958.7	2002.4	2206.8	1378.3
57.5°	1450.0	1463.1	1560.0	1659.7	1806.6	1815.2	1820.9	2063.6	2102.8	2305.2	1474.8
60°	1195.5	1198.0	1357.1	1528.1	1786.8	1945.9	1998.0	2176.3	2209.2	2397.0	1590.4
62.5°	760.4	786.3	960.9	1202.2	1577.3	1927.0	2212.2	2346.8	2358.8	2507.0	1756.1
65°	362.2	379.0	504.8	742.8	1142.5	1684.9	2360.0	2655.3	2660.7	2725.1	1977.4
67.5°	200.5	208.6	268.5	399.8	667.9	1191.6	2300.3	3020.6	3025.7	2947.8	2171.7
69°	156.8	163.7	210.9	301.4	452.8	856.4	2081.6	3127.6	3142.8	3011.6	2178.6
70°	133.1	139.9	181.6	254.6	364.1	661.8	1852.9	3101.0	3117.1	3005.6	2127.1
72.5°	81.5	85.4	121.0	179.2	244.0	332.9	1142.6	2622.5	2649.7	2757.0	1828.1
75°	54.9	57.0	75.6	123.7	174.6	171.4	593.6	1848.5	1907.4	2144.7	1350.2
77.5°	39.3	41.3	50.7	80.0	122.3	113.2	268.8	1148.8	1161.4	1286.3	736.3
80°	22.4	24.2	35.9	47.6	83.0	75.5	106.9	548.7	555.0	551.6	245.8
82.5°	11.7	13.2	19.7	31.4	53.3	49.4	44.4	183.7	184.6	153.5	53.9
85°	2.3	2.7	9.8	21.5	27.5	21.5	18.2	43.1	44.0	38.9	13.4
87.5°	0.0	0.2	3.9	4.8	5.4	5.6	5.9	8.4	9.0	12.2	3.6
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°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
2.5°	361.3	355.9	345.5	333.5	324.2	315.0	307.8	300.3	297.6	296.3	296.1
5°	364.9	353.5	331.6	309.0	290.6	273.2	260.7	248.9	243.3	240.7	239.7
7.5°	370.9	352.6	317.3	282.9	256.4	234.6	217.3	204.4	198.0	195.3	194.2
10°	377.9	351.4	300.6	255.3	221.4	198.9	181.8	169.0	161.9	158.9	157.4
12.5°	386.2	349.3	281.4	227.4	191.5	169.0	148.3	132.5	124.4	121.0	119.3
15°	396.4	347.2	261.3	201.1	165.3	137.8	115.1	104.5	102.8	102.2	102.4
17.5°	406.4	343.9	239.4	175.2	137.6	107.6	96.1	95.5	95.8	95.8	95.8
20°	415.5	336.4	215.5	152.9	111.4	90.8	88.4	87.4	86.6	86.0	85.3
22.5°	422.5	326.3	192.6	130.9	91.0	83.2	79.4	76.1	73.4	71.6	70.7
25°	427.3	312.9	171.6	109.7	81.8	75.6	68.9	63.3	59.1	56.6	55.5
27.5°	430.9	298.5	152.8	91.9	75.5	66.9	58.1	51.5	47.1	44.9	44.0
30°	433.5	282.2	136.3	80.7	68.4	57.8	48.3	41.9	38.7	37.5	36.9
32.5°	435.9	264.0	120.7	75.5	61.8	49.4	40.5	35.6	33.6	32.1	31.7
35°	441.9	247.2	105.8	69.9	55.1	42.2	34.8	31.2	29.3	28.4	28.1
37.5°	456.1	234.7	91.6	64.2	48.3	36.5	30.5	27.9	26.1	25.2	24.9
40°	479.1	228.4	79.5	58.1	41.7	32.1	27.6	25.2	23.3	21.9	21.6
42.5°	512.9	229.3	71.1	51.9	36.5	28.7	24.9	22.1	20.0	18.8	18.5
45°	553.8	235.9	65.3	45.9	32.1	26.0	21.9	18.9	17.0	15.9	15.6
47.5°	598.3	246.6	60.5	40.5	28.7	23.4	18.9	15.8	14.1	13.2	13.1
50°	645.1	257.0	55.5	35.3	25.7	20.9	15.9	13.1	11.7	11.0	10.7
52.5°	692.5	269.0	51.0	30.5	23.1	17.9	13.2	10.7	9.6	9.0	8.7
55°	743.6	278.0	46.7	26.7	20.6	15.2	11.0	8.9	8.0	7.2	7.1
57.5°	803.6	291.9	42.2	23.1	17.6	12.6	9.0	7.1	6.3	5.6	5.4
60°	884.6	308.3	37.4	20.4	14.4	10.4	7.4	5.7	4.8	4.2	4.1
62.5°	991.5	326.4	31.4	17.9	11.7	8.4	5.9	4.5	3.5	2.7	2.7
65°	1127.0	356.0	25.7	15.0	9.6	6.9	4.5	3.3	2.0	1.2	1.2
67.5°	1206.1	361.1	20.7	12.3	7.8	5.9	3.8	2.3	0.6	0.2	0.0
69°	1180.8	331.6	17.6	10.5	6.8	5.6	3.5	1.7	0.3	0.0	0.0
70°	1133.0	303.2	15.5	9.3	6.2	5.3	3.3	1.2	0.3	0.0	0.0
72.5°	936.3	215.8	11.7	6.9	4.5	4.7	3.0	0.8	0.3	0.0	0.0
75°	682.0	131.2	8.4	4.8	2.9	3.5	2.1	0.3	0.2	0.0	0.0
77.5°	379.4	61.8	5.3	2.7	1.8	2.1	1.1	0.0	0.0	0.0	0.0
80°	123.2	16.8	2.4	1.5	1.1	1.2	0.5	0.0	0.0	0.0	0.0
82.5°	22.8	4.8	1.4	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.6	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)