

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: P301921

Luminaire Tested: **GAA-AF-01-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-01-LED-U-SL4-7030-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2928.5 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
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: 28.75 FT

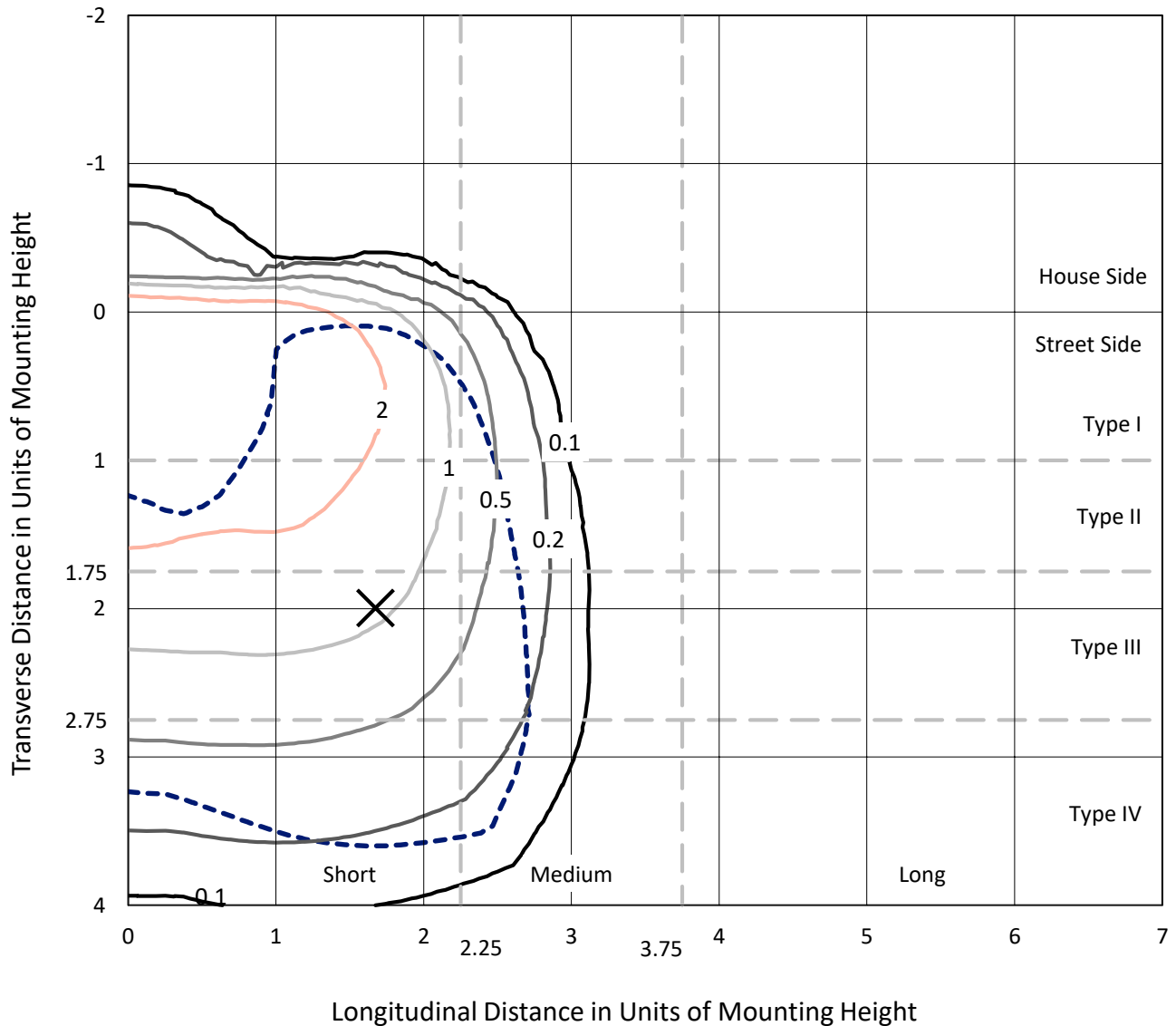


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

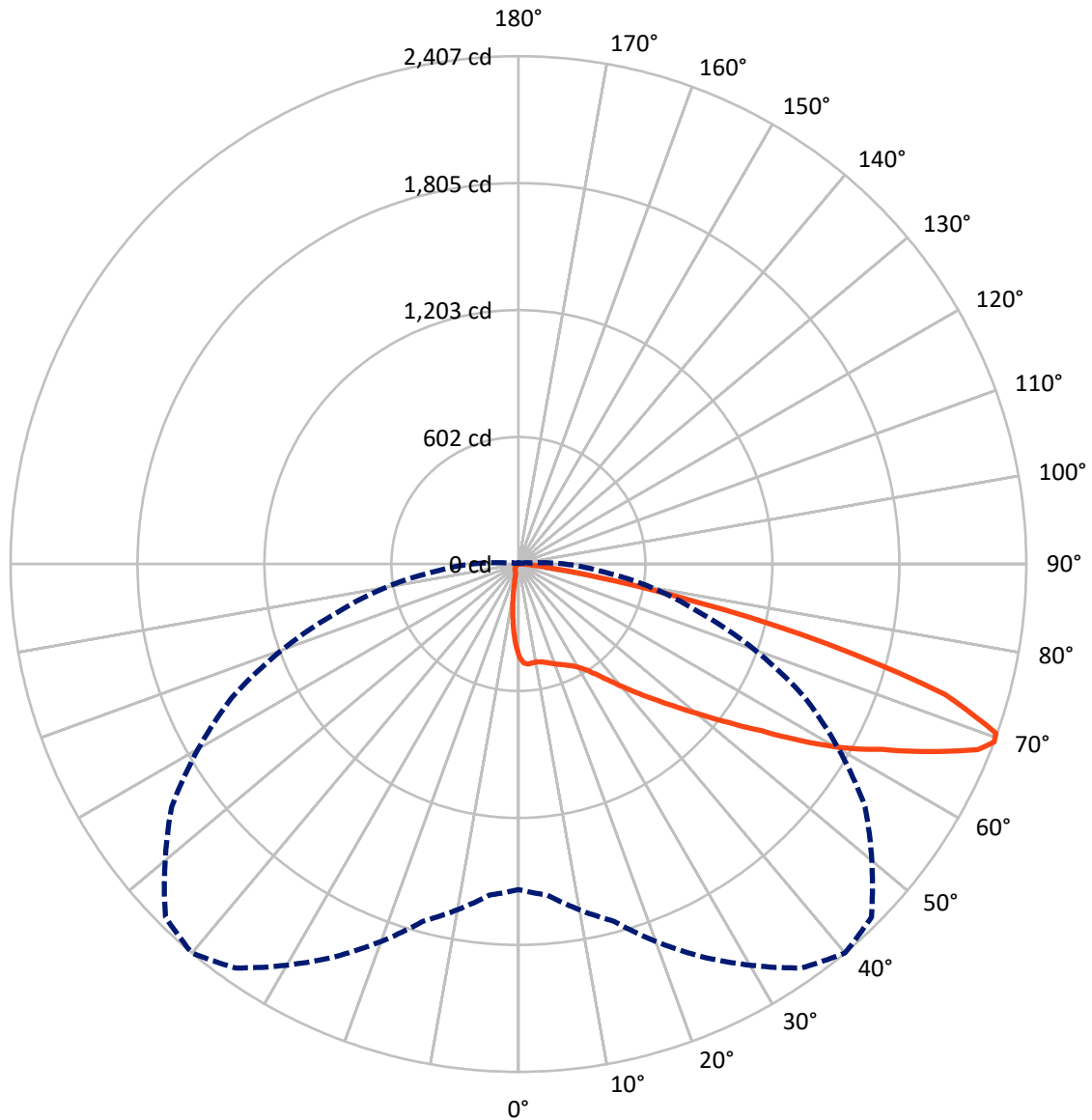


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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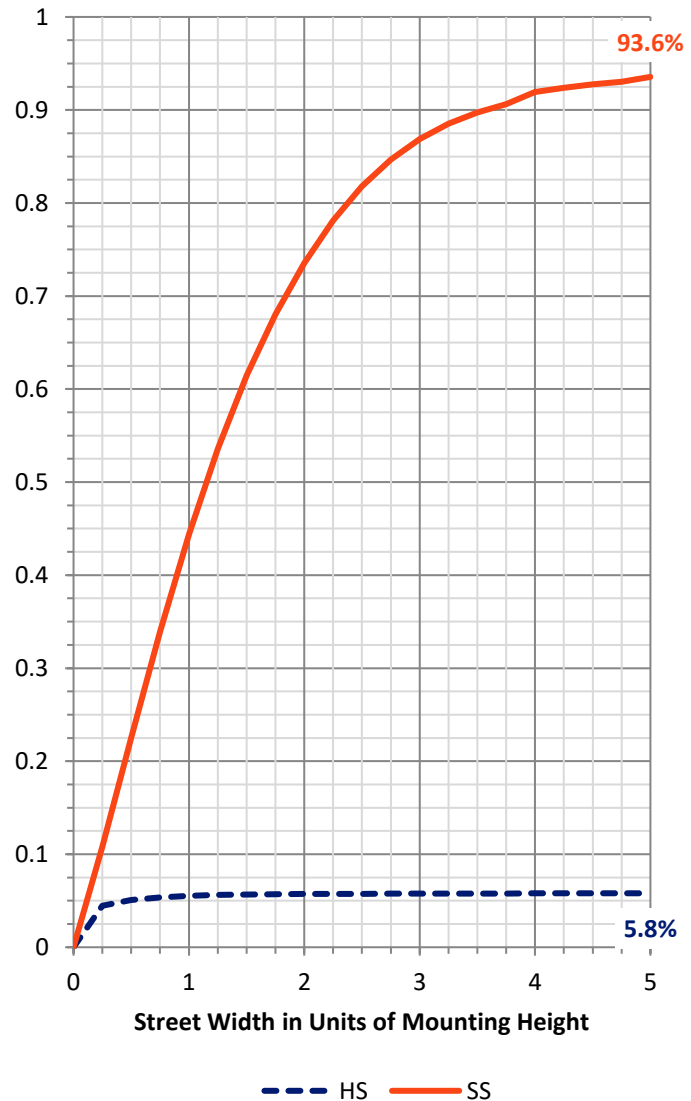
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	171.3	0.0	171.3
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	2757.2	0.0	2757.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	2928.5	0.0	2928.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.5	1.2
10°-20°	87.2	3.0
20°-30°	146.9	5.0
30°-40°	240.6	8.2
40°-50°	416.5	14.2
50°-60°	656.0	22.4
60°-70°	856.8	29.3
70°-80°	441.3	15.1
80°-90°	47.7	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°	2928.5	100.0
0°-180°	2928.5	100.0



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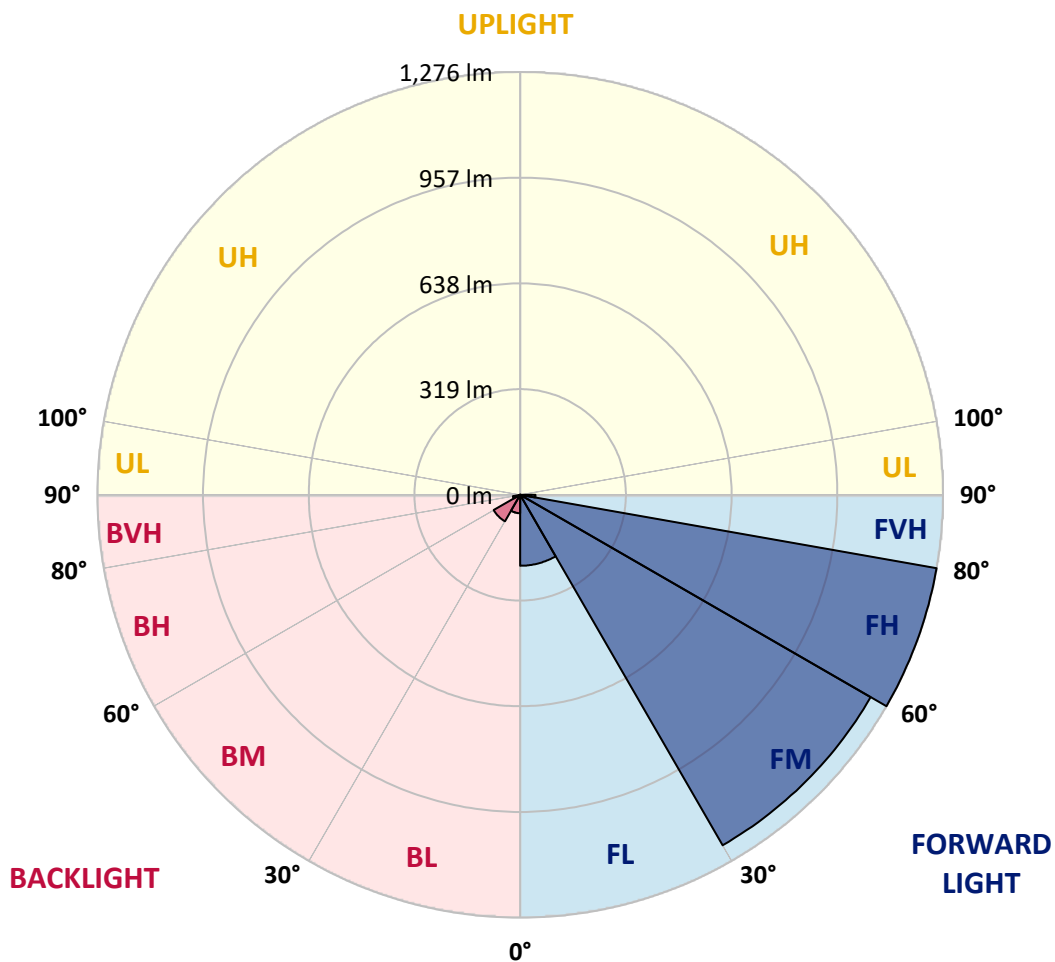
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.2	7.3			
FM	(30°-60°)	1221.0	41.7			
FH	(60°-80°)	1275.8	43.6			G1/1800
FVH	(80°-90°)	46.2	1.6			G1/100
BL	(0°-30°)	55.5	1.9	B0/110		
BM	(30°-60°)	92.1	3.1	B0/220		
BH	(60°-80°)	22.2	0.8	B0/110		G0/110
BVH	(80°-90°)	1.5	0.1			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°	40°	45°	55°	65°	75°	85°
0°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	480.4	477.8	476.2	474.1	471.5	469.3	468.4	461.9	455.8	447.5	437.9
5°	489.3	488.4	485.6	482.9	479.7	476.2	474.3	466.6	457.9	445.7	429.0
7.5°	490.2	489.1	485.6	481.8	477.5	473.3	470.0	462.3	454.3	441.9	421.5
10°	488.8	487.6	485.0	480.8	475.4	471.4	468.0	460.7	453.9	442.8	420.1
12.5°	487.2	486.0	484.8	482.7	478.0	475.2	472.4	465.4	459.3	449.9	425.2
15°	488.8	488.1	489.5	488.6	486.0	483.6	480.8	474.5	468.9	461.1	434.4
17.5°	495.4	495.4	499.8	500.3	497.9	494.4	490.4	484.1	479.4	472.7	445.4
20°	510.9	510.4	516.0	517.0	511.1	505.7	499.8	492.1	488.4	484.3	456.2
22.5°	537.6	535.2	538.5	537.4	525.7	517.4	510.1	500.6	498.7	496.8	468.2
25°	572.3	570.9	573.2	562.9	542.3	531.0	522.3	511.6	511.6	513.5	481.8
27.5°	622.7	617.4	609.8	591.6	560.8	546.3	536.9	525.6	528.5	535.7	499.8
30°	674.3	668.5	650.9	623.0	583.3	568.1	557.1	545.3	552.2	565.3	523.8
32.5°	725.2	718.7	693.8	658.6	615.5	600.4	589.7	576.6	588.3	610.3	559.0
35°	774.5	768.7	740.0	698.5	658.4	645.8	636.1	624.8	639.7	670.4	608.7
37.5°	829.9	823.7	788.6	743.6	710.5	701.5	694.3	683.0	709.1	754.1	677.9
40°	898.1	887.5	840.2	795.4	770.8	766.5	761.6	760.0	800.6	862.9	770.1
42.5°	976.2	958.7	894.3	850.0	837.1	840.2	839.0	846.0	915.2	998.1	882.4
45°	1054.3	1031.8	954.4	908.2	909.9	920.9	927.7	955.6	1058.6	1153.3	1003.2
47.5°	1120.5	1098.4	1012.1	971.1	992.0	1013.7	1032.1	1085.0	1206.1	1306.0	1097.2
50°	1177.2	1156.2	1073.3	1040.3	1087.4	1122.3	1152.2	1230.5	1364.7	1422.3	1163.0
52.5°	1223.5	1209.6	1136.7	1119.6	1196.3	1247.4	1291.3	1385.1	1505.2	1516.7	1214.3
55°	1268.7	1258.7	1204.9	1213.9	1324.3	1393.8	1449.5	1549.2	1626.2	1595.5	1263.5
57.5°	1320.6	1311.6	1282.6	1333.5	1492.5	1580.0	1640.7	1694.5	1732.7	1676.1	1309.8
60°	1373.6	1368.4	1369.1	1466.4	1685.7	1769.7	1803.1	1817.1	1837.3	1751.9	1312.4
62.5°	1424.2	1434.1	1467.9	1614.2	1870.6	1935.1	1952.0	1965.8	1942.1	1763.9	1212.6
65°	1509.8	1526.0	1606.7	1812.0	2074.0	2143.1	2160.5	2113.3	1958.6	1608.4	986.3
67.5°	1551.6	1581.2	1725.2	1996.5	2271.4	2348.1	2341.6	2122.8	1757.6	1226.5	632.9
69°	1542.9	1574.4	1752.6	2052.9	2336.9	2406.5	2365.5	2005.5	1497.4	888.5	388.6
70°	1508.4	1540.3	1738.5	2050.8	2345.3	2400.4	2321.2	1860.7	1266.1	649.7	243.0
72.5°	1259.6	1287.2	1543.4	1853.7	2160.5	2115.7	1941.9	1289.1	616.9	176.9	54.7
75°	775.4	790.7	1107.4	1396.5	1631.8	1516.7	1293.8	641.3	183.9	50.0	30.3
77.5°	409.6	416.6	606.3	823.1	1034.4	855.9	663.1	250.1	84.7	31.4	22.0
80°	242.1	247.4	326.5	376.4	447.6	373.9	265.1	153.6	60.7	19.7	19.5
82.5°	138.6	141.9	236.7	209.2	176.4	150.6	132.0	145.6	36.4	13.2	20.2
85°	50.9	51.6	133.2	159.2	104.9	62.4	65.5	120.6	9.8	8.4	15.9
87.5°	23.7	23.2	68.5	97.4	61.4	39.6	51.1	26.5	3.8	5.4	4.4
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°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	432.3	425.9	414.2	402.2	389.9	380.5	371.3	364.0	361.5	357.0	357.4
5°	419.1	407.2	382.8	358.0	332.2	311.0	290.9	274.7	266.9	258.9	258.9
7.5°	407.6	390.3	352.1	311.9	270.2	235.2	203.6	179.9	166.8	156.4	156.2
10°	403.2	379.8	326.5	268.8	210.8	163.0	125.5	101.5	89.1	81.1	80.7
12.5°	405.1	376.2	306.8	229.1	156.2	104.8	72.7	57.2	51.9	49.5	49.5
15°	410.7	375.1	287.1	190.2	110.3	65.5	48.3	44.1	43.8	43.8	43.8
17.5°	417.5	375.5	266.9	152.4	75.1	46.9	41.7	41.1	41.5	41.5	41.5
20°	424.5	375.7	245.1	117.3	53.0	40.8	39.2	39.0	39.4	39.4	39.6
22.5°	433.0	376.5	223.3	87.7	43.8	38.5	37.3	37.3	37.5	37.5	37.3
25°	442.8	378.3	200.6	65.0	39.9	37.0	35.9	35.7	35.9	35.7	35.6
27.5°	455.0	380.7	175.4	50.9	38.2	35.4	34.5	34.5	34.3	34.2	34.0
30°	470.3	383.5	146.9	43.2	36.4	34.0	33.1	32.9	32.8	32.4	32.4
32.5°	493.7	389.6	118.9	39.2	34.5	32.1	31.4	31.4	31.0	30.7	30.5
35°	529.6	401.6	93.8	36.8	32.4	30.0	29.1	29.1	28.8	28.6	28.4
37.5°	579.3	419.9	72.9	34.5	30.3	27.7	26.8	26.7	26.3	26.0	25.8
40°	645.3	442.6	57.4	32.4	28.2	25.5	24.8	24.4	23.7	23.2	23.2
42.5°	728.3	468.4	46.5	30.2	25.8	23.4	22.8	22.3	21.1	20.6	20.4
45°	815.1	491.6	39.4	27.5	23.4	21.3	20.9	20.0	18.5	18.0	18.0
47.5°	877.7	497.0	34.7	25.1	21.1	19.0	18.8	17.3	15.9	15.5	15.3
50°	916.7	486.3	30.9	22.7	19.0	16.9	16.4	14.5	13.6	13.2	13.1
52.5°	943.1	467.3	27.7	20.6	17.1	15.0	13.8	12.4	11.7	11.3	11.3
55°	964.2	440.5	24.6	18.7	15.5	13.4	11.7	10.6	9.9	9.6	9.6
57.5°	970.1	404.1	21.4	17.1	13.9	11.9	9.9	9.2	8.4	8.2	8.2
60°	927.0	338.4	19.0	15.2	12.6	10.3	8.7	7.8	7.0	6.8	6.6
62.5°	813.5	261.8	16.7	13.4	11.0	8.9	7.5	6.4	5.8	5.8	5.8
65°	620.6	175.5	14.6	11.7	9.6	7.5	6.4	5.2	4.9	4.9	5.1
67.5°	371.5	95.5	12.6	9.9	8.2	6.3	5.4	4.5	4.4	4.5	4.5
69°	217.7	56.1	11.3	8.9	7.1	5.6	4.7	4.0	4.4	4.5	4.5
70°	134.4	37.8	10.5	8.0	6.4	5.1	4.4	3.8	4.2	4.4	4.4
72.5°	37.5	19.5	8.4	6.3	5.2	4.2	3.5	3.5	4.0	4.2	4.2
75°	24.4	14.5	6.4	4.7	4.0	3.3	3.0	3.3	3.8	4.0	4.0
77.5°	20.2	11.9	5.2	3.8	3.3	3.1	2.8	3.0	3.5	3.7	3.7
80°	18.5	8.4	4.2	3.5	3.0	2.8	2.6	2.4	3.1	3.3	3.3
82.5°	17.6	6.6	3.7	3.1	2.8	2.4	2.3	2.4	2.8	3.0	3.1
85°	11.0	4.4	3.3	3.0	2.4	2.3	2.3	2.3	2.6	2.8	2.8
87.5°	4.0	3.5	3.0	2.4	2.1	2.1	2.1	2.1	2.3	2.6	2.6
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)