

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: McGRAW-EDISON

Report Number: P651691

Luminaire Tested: **GALN-SA1A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2573.4 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

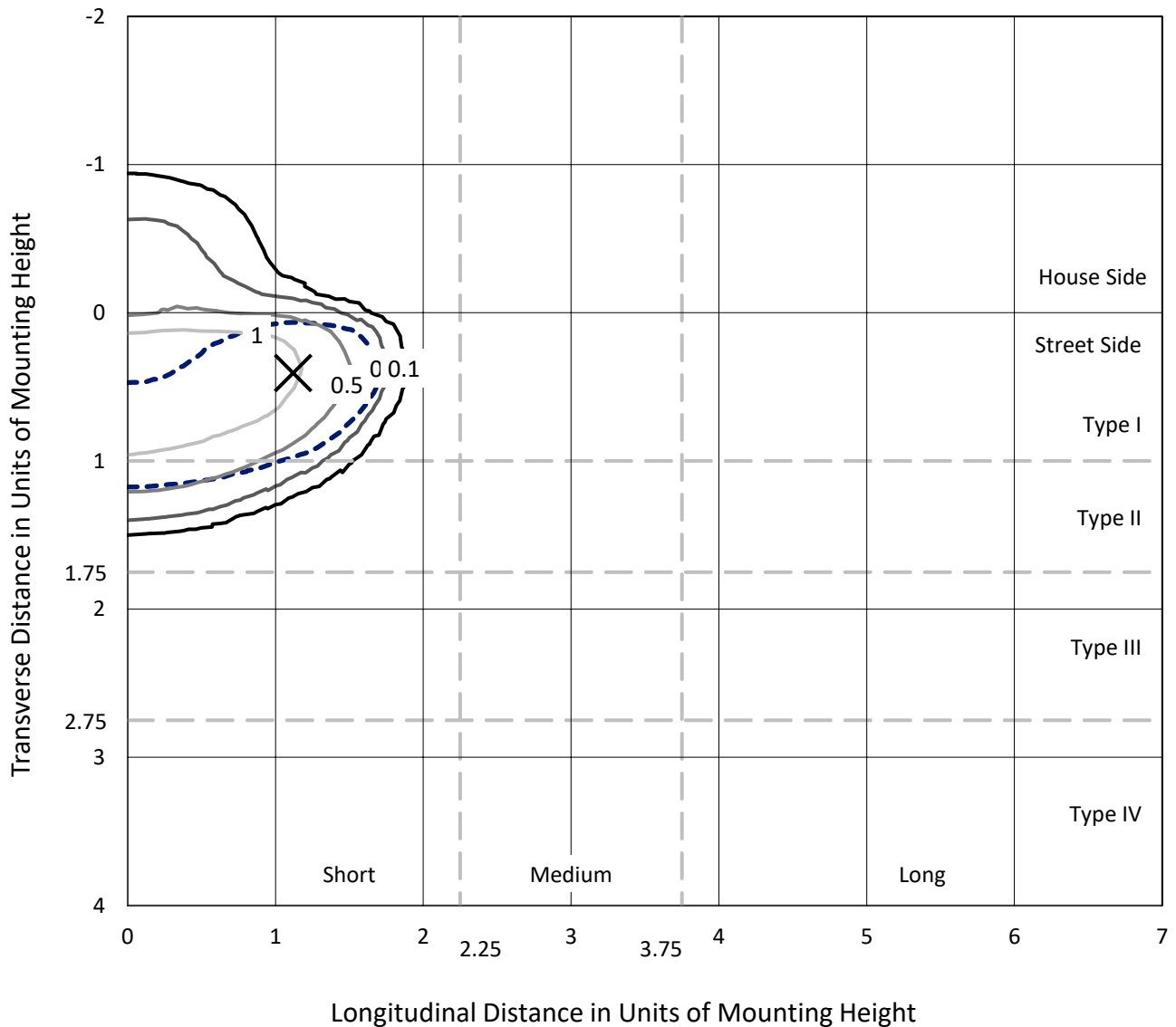
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

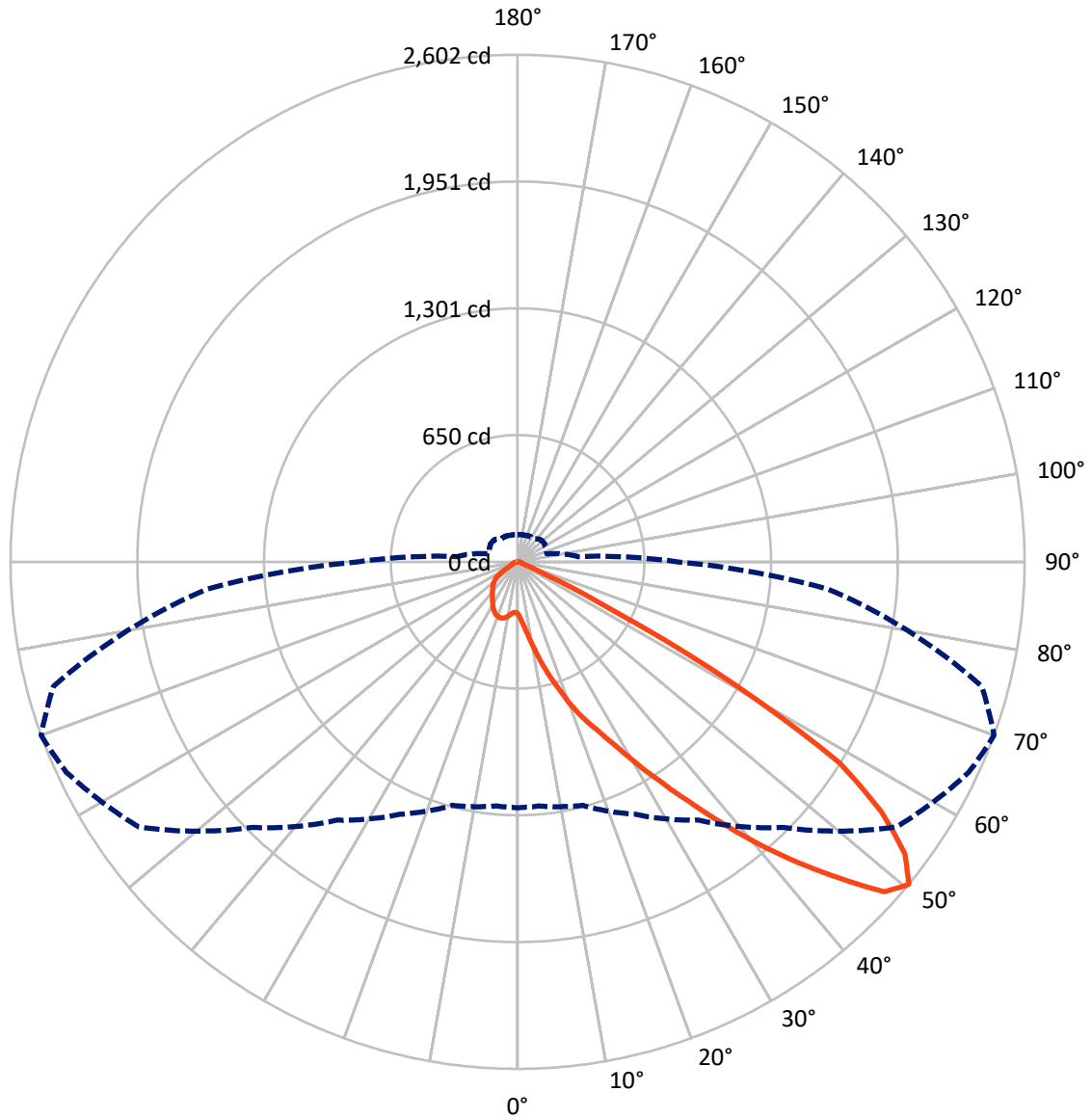
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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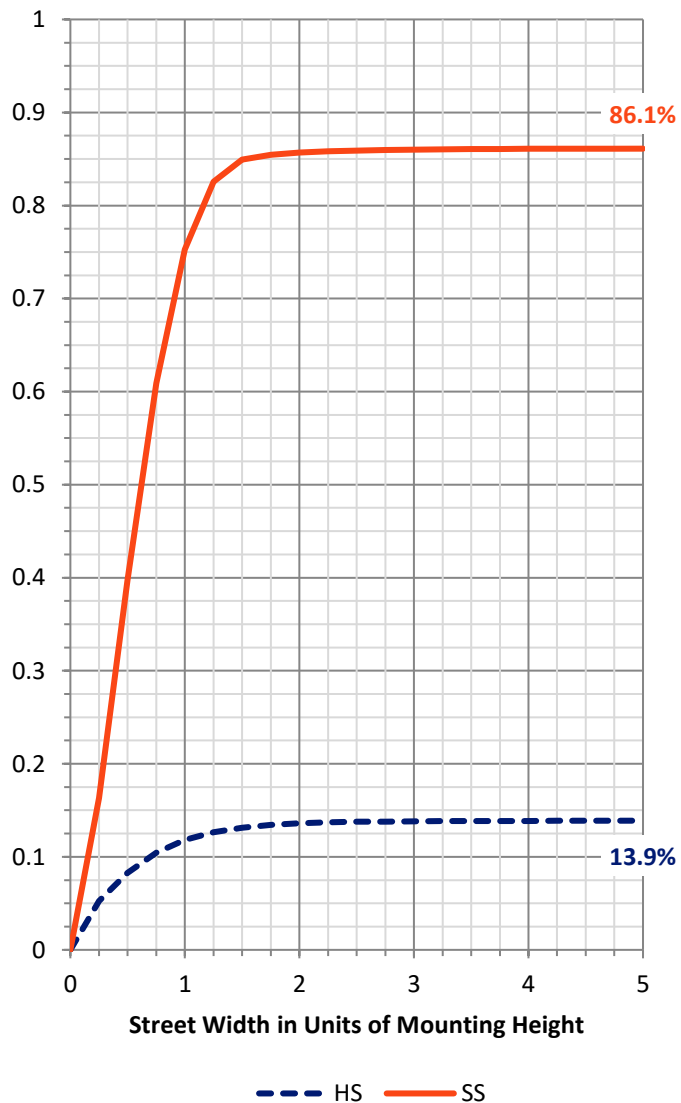
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	359.4	0.0	359.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	2214.0	0.0	2214.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	2573.4	0.0	2573.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.7	1.3
10°-20°	149.9	5.8
20°-30°	314.5	12.2
30°-40°	542.2	21.1
40°-50°	792.4	30.8
50°-60°	617.1	24.0
60°-70°	104.5	4.1
70°-80°	14.4	0.6
80°-90°	3.7	0.1
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°	2573.4	100.0
0°-180°	2573.4	100.0

**Coefficient of Utilization**

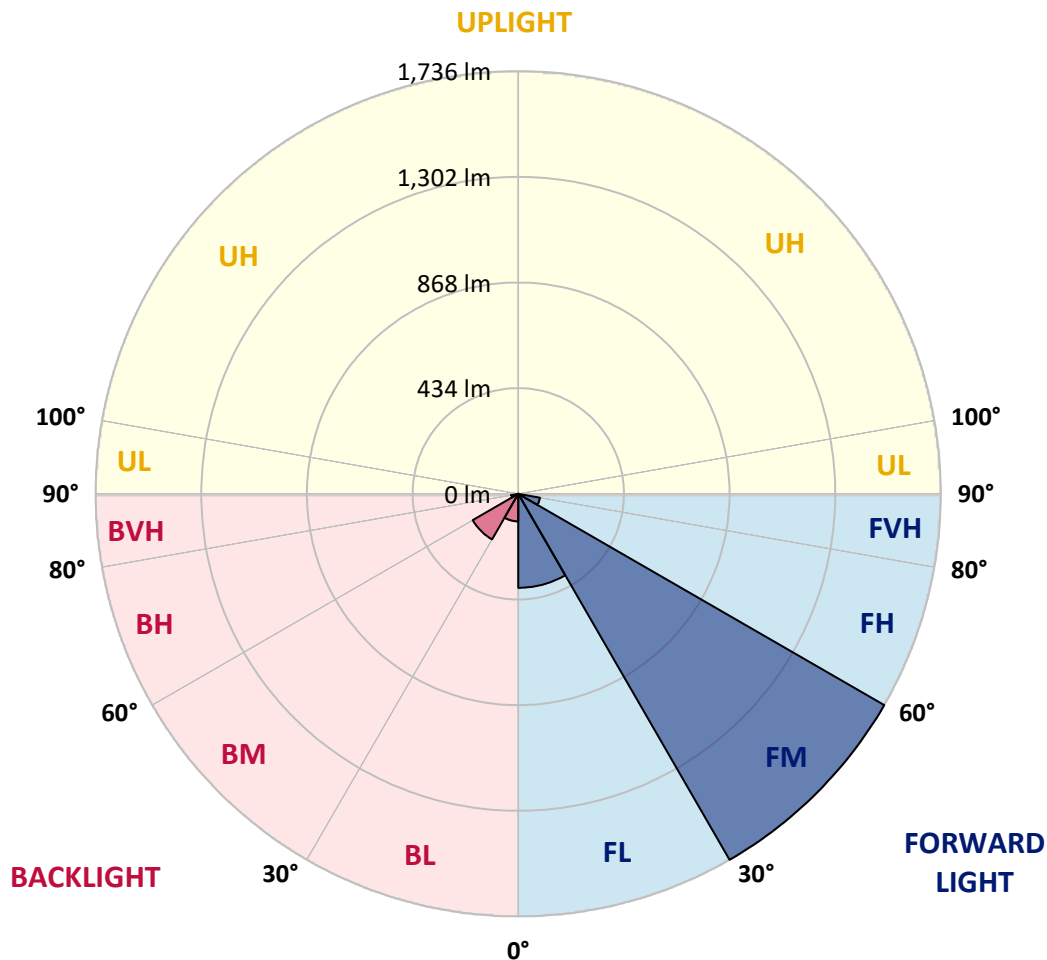


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.0	15.0			
FM (30°-60°)	1735.8	67.4			
FH (60°-80°)	90.5	3.5			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	113.1	4.4	B1/500		
BM (30°-60°)	215.9	8.4	B0/220		
BH (60°-80°)	28.4	1.1	B0/110		G0/110
BVH (80°-90°)	2.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6
2.5°	349.1	346.5	341.0	330.8	326.6	316.5	310.6	299.1	291.9	283.9	275.0
5°	491.6	478.5	470.5	459.1	425.6	404.9	370.6	341.4	327.9	313.1	292.8
7.5°	638.9	630.4	619.4	594.9	572.0	528.9	470.0	405.8	378.3	352.9	312.7
10°	760.8	737.1	735.8	717.6	692.6	641.0	570.4	490.4	441.3	404.1	341.0
12.5°	845.8	824.2	833.9	831.8	808.5	761.2	679.5	573.7	522.5	464.6	370.2
15°	923.2	914.3	911.4	908.9	899.5	864.4	791.2	675.3	601.2	531.4	403.3
17.5°	998.9	976.1	987.1	989.3	988.4	956.6	888.1	771.8	684.6	602.1	437.9
20°	1066.2	1068.3	1053.5	1050.6	1048.1	1046.8	979.9	867.4	787.0	676.2	483.2
22.5°	1152.6	1137.7	1150.8	1142.4	1125.9	1115.8	1064.5	952.0	875.8	765.4	529.3
25°	1254.5	1266.4	1235.5	1232.1	1213.9	1178.7	1132.7	1046.8	961.3	848.3	579.2
27.5°	1380.2	1359.5	1351.4	1332.8	1299.8	1285.0	1230.8	1144.5	1064.5	935.5	627.5
30°	1488.1	1482.6	1442.4	1420.4	1391.6	1391.2	1315.5	1277.0	1199.1	1072.2	693.9
32.5°	1576.1	1552.0	1537.2	1522.0	1498.7	1505.0	1441.1	1420.8	1342.6	1199.1	772.2
35°	1634.9	1617.6	1608.7	1585.4	1578.6	1607.0	1580.3	1571.8	1507.6	1377.6	864.0
37.5°	1653.5	1659.0	1657.4	1628.1	1642.6	1719.1	1753.4	1731.4	1697.6	1565.9	963.4
40°	1670.1	1673.8	1665.3	1699.7	1740.7	1827.8	1951.8	1915.5	1902.8	1756.8	1101.8
42.5°	1679.3	1676.4	1676.4	1735.6	1797.8	1973.0	2143.5	2119.3	2109.6	1959.9	1261.8
45°	1639.1	1610.3	1641.2	1721.6	1846.9	2044.5	2296.7	2330.1	2316.1	2201.5	1448.7
47.5°	1488.9	1506.7	1524.1	1631.5	1787.2	2022.4	2390.5	2504.4	2530.2	2404.5	1571.4
50°	1261.8	1257.9	1293.9	1429.3	1618.4	1927.7	2372.4	2554.7	2601.7	2465.5	1597.2
52.5°	917.7	945.6	984.6	1119.1	1343.4	1682.3	2137.6	2424.9	2487.5	2390.5	1580.3
55°	534.4	503.5	591.1	704.9	916.4	1268.9	1807.1	2149.4	2265.3	2254.3	1494.9
57.5°	214.1	207.3	237.3	319.8	478.1	786.6	1314.1	1766.1	1951.8	2064.7	1313.7
60°	93.9	91.8	107.9	130.4	195.4	362.6	718.9	1098.4	1292.2	1442.8	904.2
62.5°	67.7	66.9	74.8	82.9	103.3	157.9	302.1	442.5	551.7	666.4	404.9
65°	54.6	56.7	62.2	66.4	76.2	87.5	106.6	123.1	151.0	156.5	89.3
67.5°	44.4	46.1	51.2	55.8	57.5	47.3	49.1	43.1	43.1	38.5	30.9
70°	32.5	33.0	38.9	44.4	35.6	19.0	33.4	33.4	30.0	28.8	26.2
72.5°	24.1	24.6	29.2	27.5	14.0	11.9	24.6	27.1	24.6	23.3	21.2
75°	17.7	18.2	15.2	6.3	5.9	7.7	14.4	18.6	17.7	17.3	16.1
77.5°	3.4	2.5	2.1	2.9	4.2	6.3	9.3	11.4	11.9	12.7	11.9
80°	0.4	0.4	1.3	2.5	4.6	6.7	9.8	11.0	11.4	11.9	11.0
82.5°	0.0	0.4	1.3	2.5	4.6	6.3	8.5	9.8	10.6	11.0	10.6
85°	0.0	0.4	0.8	2.1	3.8	4.6	4.2	2.9	2.5	2.9	2.1
87.5°	0.0	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6
2.5°	270.0	268.3	262.3	256.0	250.4	253.1	250.4	248.3	249.2	248.3	247.5
5°	284.8	277.1	264.4	258.9	254.3	253.9	252.6	252.2	252.6	252.6	248.8
7.5°	298.7	286.4	272.9	267.0	261.5	261.9	258.9	258.9	258.5	256.4	255.6
10°	319.8	303.3	286.0	275.4	268.7	267.4	264.4	261.5	261.5	261.5	257.3
12.5°	343.1	322.4	298.7	286.4	278.4	272.1	267.4	266.6	261.9	261.0	258.9
15°	363.5	337.2	307.2	290.2	280.1	271.6	264.4	259.8	257.7	256.4	254.7
17.5°	383.3	349.9	311.8	290.2	279.2	269.5	261.9	257.7	252.6	253.5	250.0
20°	410.0	363.5	313.1	284.8	271.2	261.9	251.7	249.6	246.7	244.1	245.0
22.5°	435.8	373.2	309.3	278.0	258.5	247.5	242.5	239.9	238.7	236.5	233.5
25°	459.1	383.7	303.3	265.7	245.0	236.9	232.3	231.9	228.9	228.9	223.4
27.5°	482.7	387.5	293.3	251.3	233.1	228.5	226.4	225.6	224.2	221.3	217.5
30°	509.8	388.9	278.4	236.5	222.5	217.5	220.4	222.5	217.1	211.6	213.3
32.5°	532.3	385.9	260.6	222.5	215.0	212.4	218.3	220.4	214.1	208.1	205.2
35°	559.3	378.7	243.3	211.6	207.3	212.4	217.5	217.5	204.8	197.6	195.9
37.5°	600.4	370.6	227.2	202.3	199.3	209.8	216.6	212.0	192.1	183.2	181.1
40°	644.4	365.6	211.6	192.9	195.0	205.6	209.4	195.0	174.8	169.2	167.5
42.5°	708.3	355.4	197.6	184.9	191.2	199.7	199.7	173.9	166.3	163.3	162.9
45°	787.8	348.3	185.4	178.1	185.8	187.9	181.1	162.9	157.4	156.5	157.0
47.5°	826.8	334.3	172.7	170.1	175.6	176.0	158.3	154.0	149.4	148.1	147.3
50°	820.8	309.3	156.1	159.5	167.1	162.9	144.3	145.2	140.9	140.4	138.3
52.5°	779.4	270.0	139.6	147.7	156.1	143.9	132.9	132.0	132.0	126.5	124.4
55°	691.0	217.5	119.8	129.9	140.0	121.0	118.1	117.2	115.0	110.0	108.7
57.5°	547.1	159.5	90.2	101.1	118.9	102.9	102.4	98.6	93.1	89.3	89.3
60°	325.4	91.8	56.7	61.8	78.7	83.3	92.7	91.0	81.7	75.8	74.0
62.5°	148.5	47.3	36.0	36.8	42.3	54.2	72.7	84.2	71.1	60.9	60.0
65°	50.0	35.2	29.6	28.3	29.2	32.5	43.6	59.6	56.7	46.9	45.2
67.5°	30.4	31.3	27.9	25.8	25.8	25.4	25.0	27.1	33.4	32.5	33.0
70°	26.2	28.8	25.8	23.3	22.5	21.2	17.7	14.8	12.7	14.8	15.6
72.5°	21.2	22.9	22.0	19.8	17.7	16.1	12.7	9.8	7.2	6.3	6.3
75°	15.6	16.9	17.7	15.2	13.5	11.4	9.3	6.3	3.8	2.5	2.5
77.5°	11.4	12.7	13.1	11.9	10.2	8.1	5.9	4.2	2.1	0.8	0.8
80°	9.8	11.4	12.7	11.9	10.6	7.7	5.5	2.9	1.7	0.4	0.4
82.5°	9.3	11.4	12.7	11.4	10.2	7.2	5.5	3.4	1.3	0.4	0.4
85°	2.1	2.9	3.8	4.6	5.5	5.5	4.2	2.5	1.3	0.4	0.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	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)