

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: P647734

Luminaire Tested: **GALN-SA1A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3692.6 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

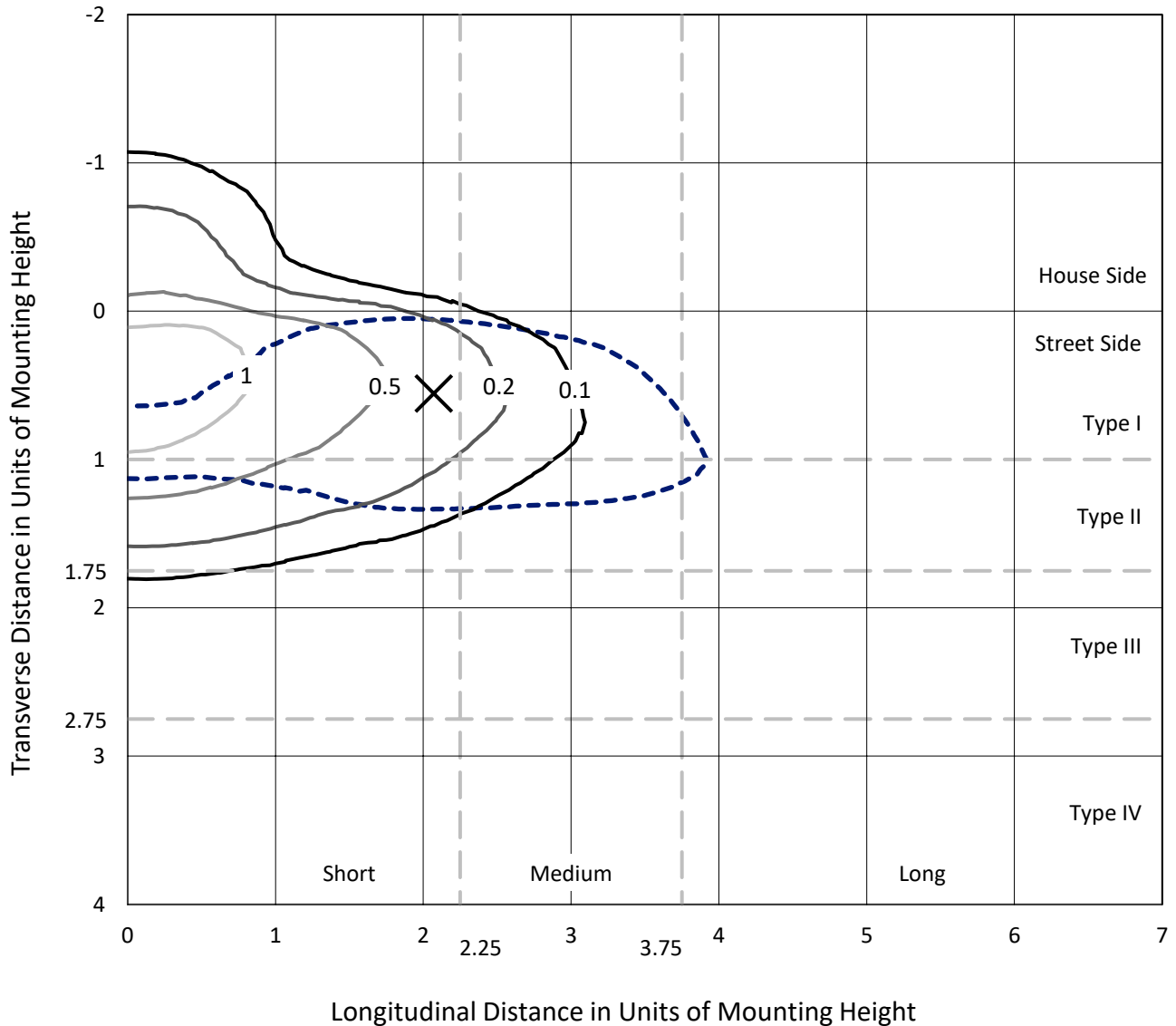
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

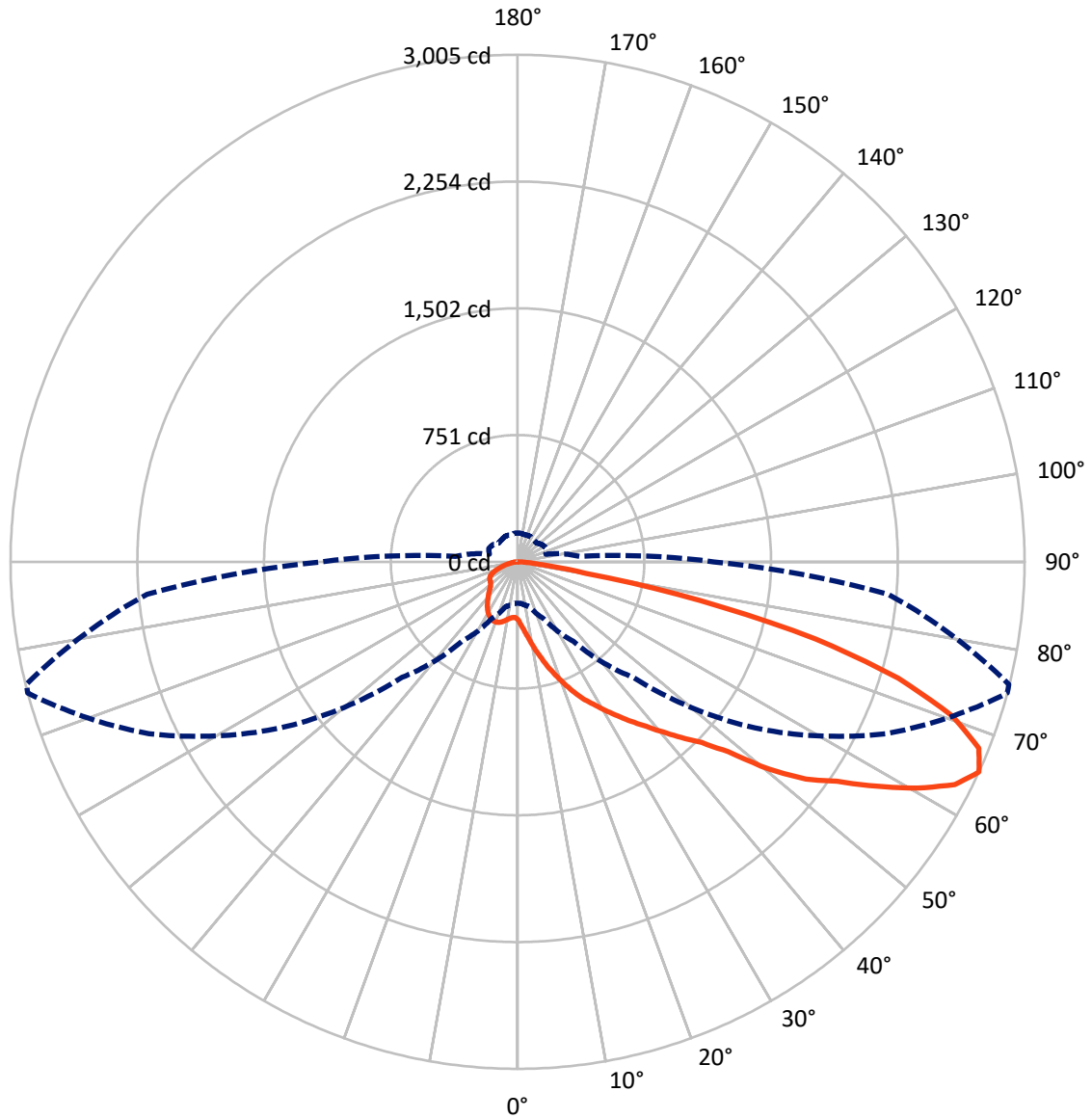
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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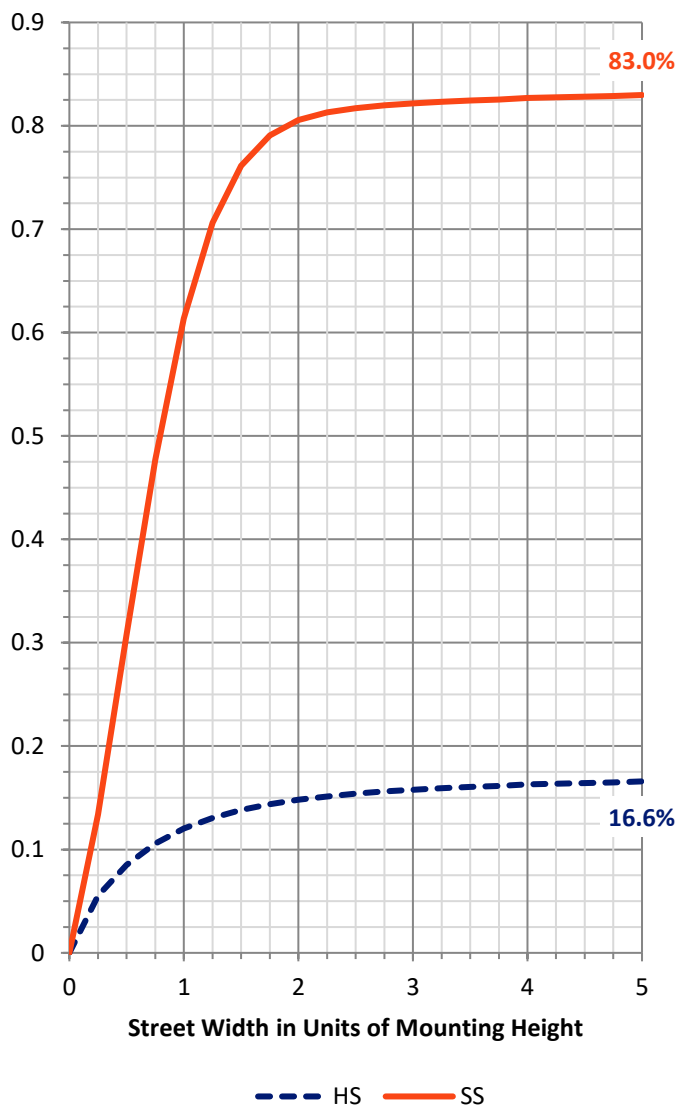
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	620.8	0.0	620.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	3071.8	0.0	3071.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	3692.6	0.0	3692.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	1.1
10°-20°	163.3	4.4
20°-30°	315.4	8.5
30°-40°	512.3	13.9
40°-50°	704.7	19.1
50°-60°	832.0	22.5
60°-70°	729.0	19.7
70°-80°	348.0	9.4
80°-90°	46.3	1.3
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°	3692.6	100.0
0°-180°	3692.6	100.0

**Coefficient of Utilization**

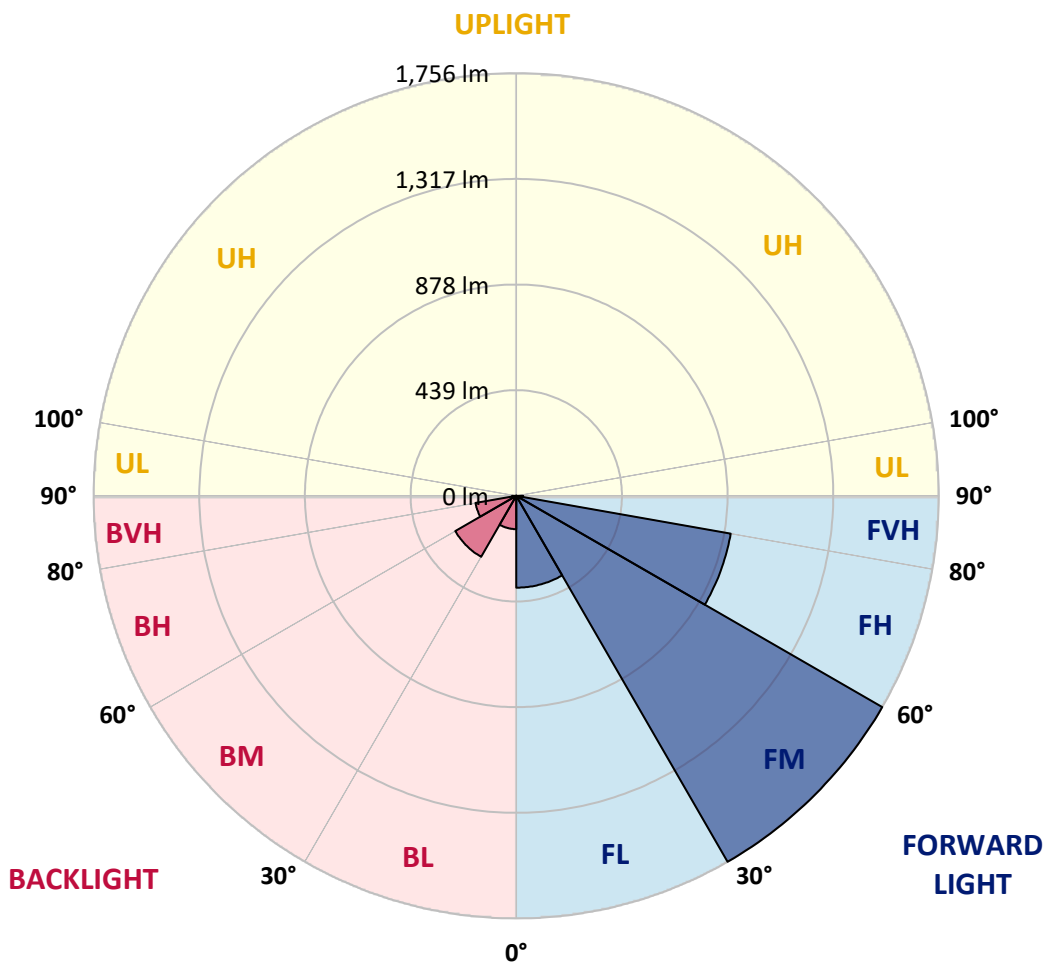


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.8	10.3			
FM (30°-60°)	1756.3	47.6			
FH (60°-80°)	904.9	24.5			G1/1800
FVH (80°-90°)	28.9	0.8			G1/100
BL (0°-30°)	138.6	3.8	B1/500		
BM (30°-60°)	292.7	7.9	B1/1000		
BH (60°-80°)	172.1	4.7	B1/500		G1/500
BVH (80°-90°)	17.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1
2.5°	455.9	452.9	449.7	440.8	431.4	420.8	405.6	391.0	371.5	370.9	356.5
5°	582.2	580.2	566.0	557.8	536.0	506.9	482.3	444.0	408.6	404.3	376.3
7.5°	698.4	690.6	685.2	670.3	648.7	611.4	563.8	512.2	452.9	447.2	400.7
10°	785.9	785.1	782.3	769.5	753.2	716.2	663.4	589.2	509.0	497.9	430.4
12.5°	851.4	852.0	851.6	851.4	839.8	808.4	751.1	673.0	565.6	557.8	464.6
15°	894.5	900.5	902.9	912.9	913.9	892.9	843.6	753.9	629.5	617.9	501.5
17.5°	922.9	925.9	937.2	954.2	968.0	964.2	920.3	828.8	694.8	675.3	539.8
20°	950.2	955.3	964.0	987.2	1011.6	1022.8	992.1	905.5	759.5	747.1	582.0
22.5°	1006.9	1014.2	1017.3	1029.1	1049.9	1069.7	1055.7	979.0	830.4	813.5	626.9
25°	1102.8	1110.6	1102.2	1099.4	1106.2	1116.0	1113.0	1048.3	897.3	873.3	669.4
27.5°	1227.7	1228.8	1212.3	1196.7	1179.9	1174.9	1165.7	1109.8	955.3	935.4	712.0
30°	1362.0	1357.2	1329.9	1301.7	1273.2	1245.2	1218.7	1169.1	1020.1	997.0	753.9
32.5°	1486.5	1483.9	1453.7	1409.8	1361.7	1335.3	1281.8	1229.0	1089.4	1067.2	796.9
35°	1579.9	1583.7	1550.4	1502.6	1450.1	1426.6	1359.1	1291.9	1161.0	1136.8	843.8
37.5°	1646.2	1644.1	1614.7	1573.3	1527.2	1506.7	1449.5	1360.5	1238.2	1214.9	895.0
40°	1669.8	1668.6	1646.7	1616.5	1587.3	1580.1	1544.0	1434.7	1326.5	1299.2	956.7
42.5°	1654.8	1657.4	1643.0	1634.7	1629.3	1634.5	1638.0	1531.8	1422.9	1397.8	1023.7
45°	1608.7	1607.3	1605.3	1618.7	1649.2	1683.4	1730.9	1623.6	1527.6	1507.6	1113.4
47.5°	1526.4	1536.4	1541.4	1578.4	1644.9	1726.0	1837.9	1746.5	1679.6	1662.2	1250.2
50°	1411.2	1419.3	1448.9	1514.8	1613.9	1742.1	1942.4	1947.6	1933.1	1900.5	1398.8
52.5°	1231.3	1243.8	1304.9	1425.6	1550.2	1735.5	2005.7	2120.1	2139.1	2114.6	1545.3
55°	1030.1	1047.5	1112.0	1270.4	1462.5	1699.4	2049.3	2220.0	2295.9	2273.3	1686.2
57.5°	833.0	851.4	917.8	1071.1	1309.5	1619.7	2078.0	2331.3	2509.4	2479.9	1861.7
60°	624.3	643.5	700.4	858.4	1091.6	1463.9	2058.6	2427.8	2722.7	2710.1	2037.3
62.5°	402.8	424.0	473.5	604.2	839.0	1251.0	1954.6	2481.2	2907.4	2892.2	2165.5
65°	245.3	247.7	275.0	375.1	574.3	968.6	1716.9	2410.5	3004.7	3000.1	2204.5
67.5°	158.6	162.4	174.8	224.7	344.3	672.8	1372.8	2177.1	2947.8	2946.2	2123.8
70°	134.0	135.2	140.8	151.6	200.1	408.0	964.0	1805.2	2731.7	2731.7	1929.8
72.5°	119.8	121.4	123.4	126.8	142.8	231.1	575.2	1405.3	2358.6	2374.2	1642.6
75°	108.8	108.4	109.5	110.2	121.8	151.0	297.5	1039.3	1824.6	1793.4	1189.5
77.5°	93.1	93.7	93.1	95.8	107.6	114.9	151.0	697.4	1105.8	1065.3	597.0
80°	76.5	77.5	78.5	80.1	91.9	87.3	90.7	317.8	409.0	400.3	184.5
82.5°	57.5	58.9	60.4	64.3	72.3	57.7	57.3	135.8	147.6	135.2	67.9
85°	23.3	27.4	41.4	45.3	45.5	31.6	35.2	56.7	60.3	58.9	26.6
87.5°	5.4	6.4	13.4	20.2	18.6	11.8	13.0	18.4	21.1	19.4	9.0
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°	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1	343.1
2.5°	349.9	342.9	330.9	321.7	315.1	309.2	305.6	303.4	302.6	302.4	302.6
5°	361.7	349.3	330.3	318.3	311.6	307.9	305.6	305.4	305.6	305.8	305.2
7.5°	378.0	360.1	335.3	324.1	319.1	316.3	315.2	314.8	315.1	314.8	314.8
10°	399.6	375.1	345.1	333.5	329.3	326.0	324.5	323.5	322.7	321.9	321.5
12.5°	423.4	391.7	355.7	344.5	338.5	333.5	329.9	327.3	325.5	323.7	323.3
15°	450.1	409.4	367.5	351.9	343.3	335.9	329.6	325.5	322.3	319.6	319.5
17.5°	475.5	426.0	375.5	355.3	342.7	332.3	324.1	318.3	314.2	310.9	310.5
20°	502.7	441.8	379.1	353.1	336.7	324.1	313.3	306.2	301.6	297.9	297.2
22.5°	530.2	455.2	378.7	346.1	326.3	311.5	300.0	292.6	287.2	283.4	282.0
25°	556.4	466.0	373.7	334.9	311.9	296.4	284.8	278.0	273.2	268.6	268.6
27.5°	580.0	472.5	364.3	321.3	297.0	280.8	271.6	265.4	261.0	258.0	256.2
30°	603.3	475.5	351.5	304.0	281.4	267.6	260.2	256.6	252.6	249.2	248.8
32.5°	624.1	474.9	335.5	287.2	266.6	256.7	253.8	251.0	246.7	241.9	240.8
35°	644.3	470.9	316.5	268.8	254.2	250.3	251.2	247.2	239.5	233.6	232.6
37.5°	666.3	463.7	295.7	253.8	243.7	247.3	249.4	240.5	228.1	218.7	216.5
40°	691.8	455.5	274.0	238.7	235.5	244.5	244.5	228.3	211.3	205.5	203.9
42.5°	721.6	448.7	256.0	226.1	228.7	237.7	236.7	212.1	205.1	202.1	201.3
45°	768.9	446.2	237.3	215.1	223.2	229.7	221.5	206.5	202.5	200.1	199.3
47.5°	843.6	449.1	220.9	206.9	216.7	221.7	204.5	202.7	199.9	196.5	196.1
50°	912.9	446.5	209.3	202.3	211.1	212.1	197.5	198.1	196.5	192.7	191.9
52.5°	969.6	438.2	201.9	199.9	206.3	195.3	190.9	193.1	192.5	187.7	186.9
55°	1031.9	433.2	198.3	199.9	203.1	180.6	184.6	187.8	187.1	183.7	183.5
57.5°	1107.4	434.3	195.7	200.5	199.9	173.3	178.4	182.3	182.0	181.0	181.0
60°	1184.7	434.6	191.7	200.3	196.1	167.4	172.0	177.4	177.8	178.4	178.4
62.5°	1210.4	417.2	183.8	196.7	187.7	161.8	166.1	173.4	173.0	174.7	174.8
65°	1162.4	368.9	172.3	188.5	176.9	157.9	161.5	168.3	166.1	170.2	171.0
67.5°	1058.1	305.2	154.3	173.7	164.8	153.6	158.4	161.1	157.0	165.2	165.4
70°	914.5	238.3	131.4	152.6	151.2	149.2	156.1	152.0	146.4	156.4	154.4
72.5°	764.7	182.0	104.9	124.8	133.0	142.6	151.8	140.4	132.6	135.6	132.0
75°	574.4	134.6	84.3	97.7	110.8	133.2	148.0	126.4	114.4	111.6	110.8
77.5°	292.8	87.9	63.1	73.1	83.2	120.3	142.8	109.9	94.7	90.4	88.3
80°	104.5	54.7	44.5	50.5	56.1	103.5	124.8	90.9	73.5	72.7	73.5
82.5°	48.5	35.2	29.8	33.0	33.3	69.1	95.1	67.9	55.9	85.0	71.7
85°	20.8	17.6	16.8	16.4	15.2	30.9	53.5	36.5	56.8	25.4	23.4
87.5°	6.2	7.0	6.2	4.6	3.4	3.4	5.4	2.0	1.4	1.0	1.0
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)