

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: P651697

Luminaire Tested: **GALN-SA1A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
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-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3317.7 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

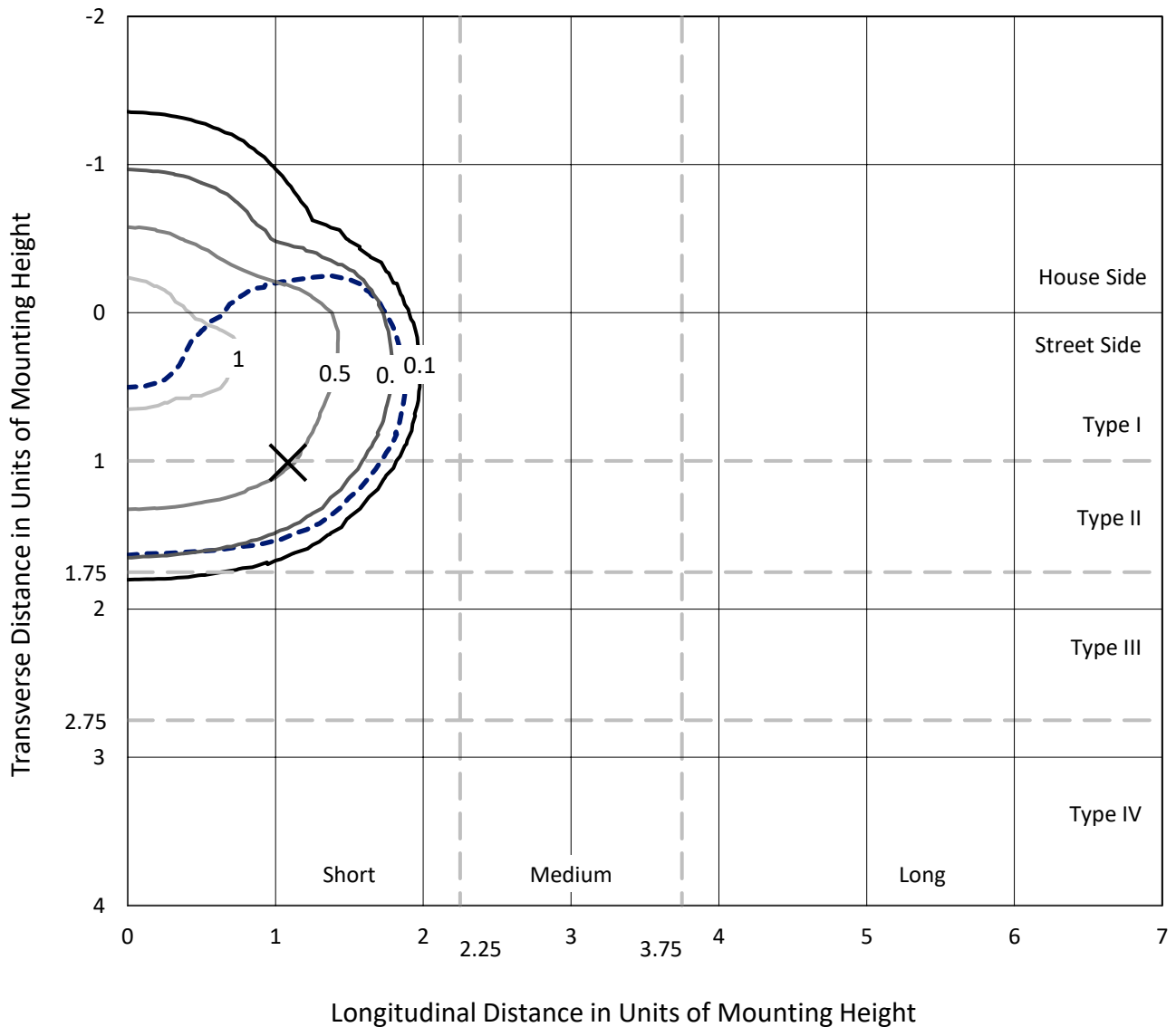
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

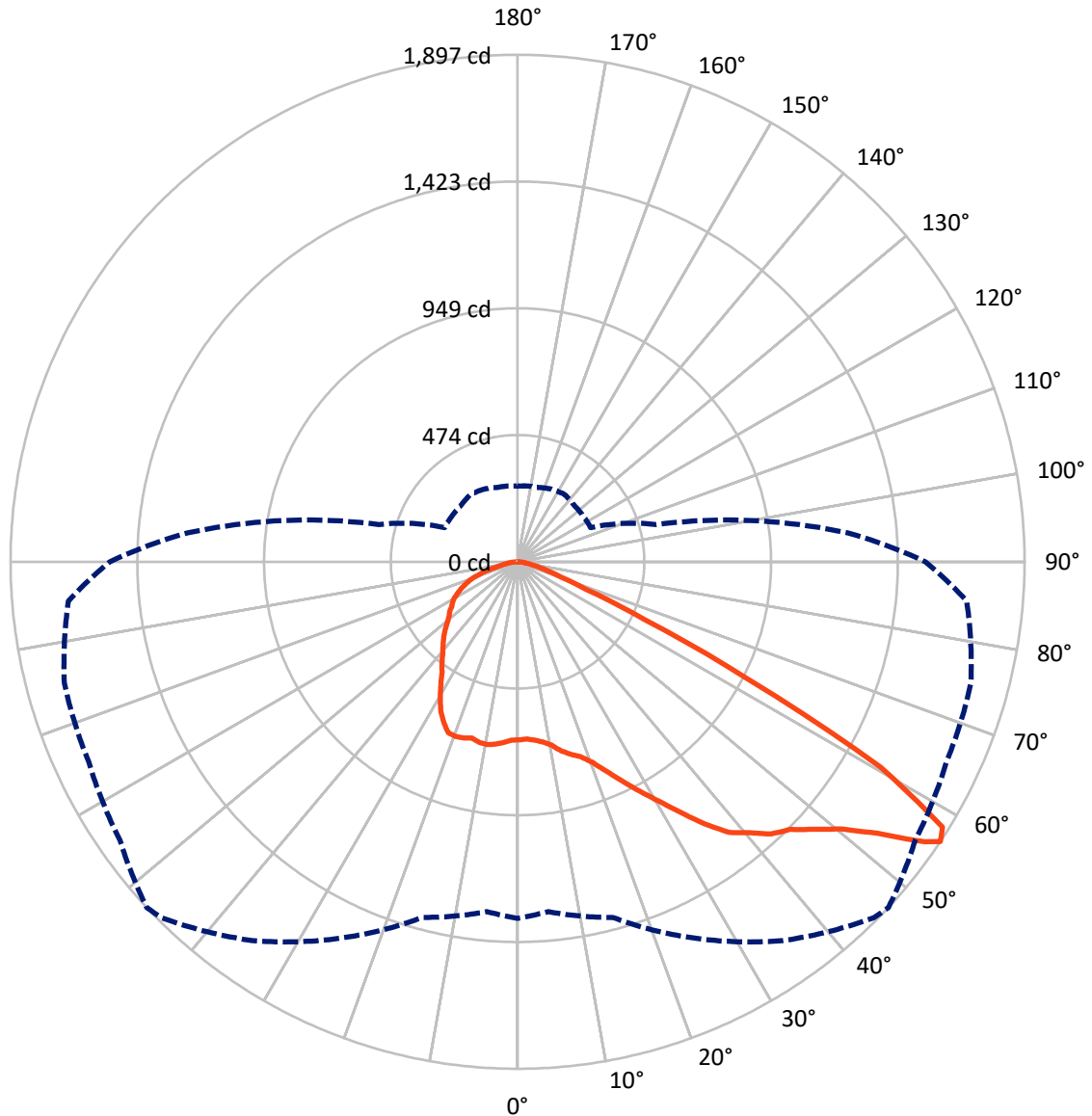
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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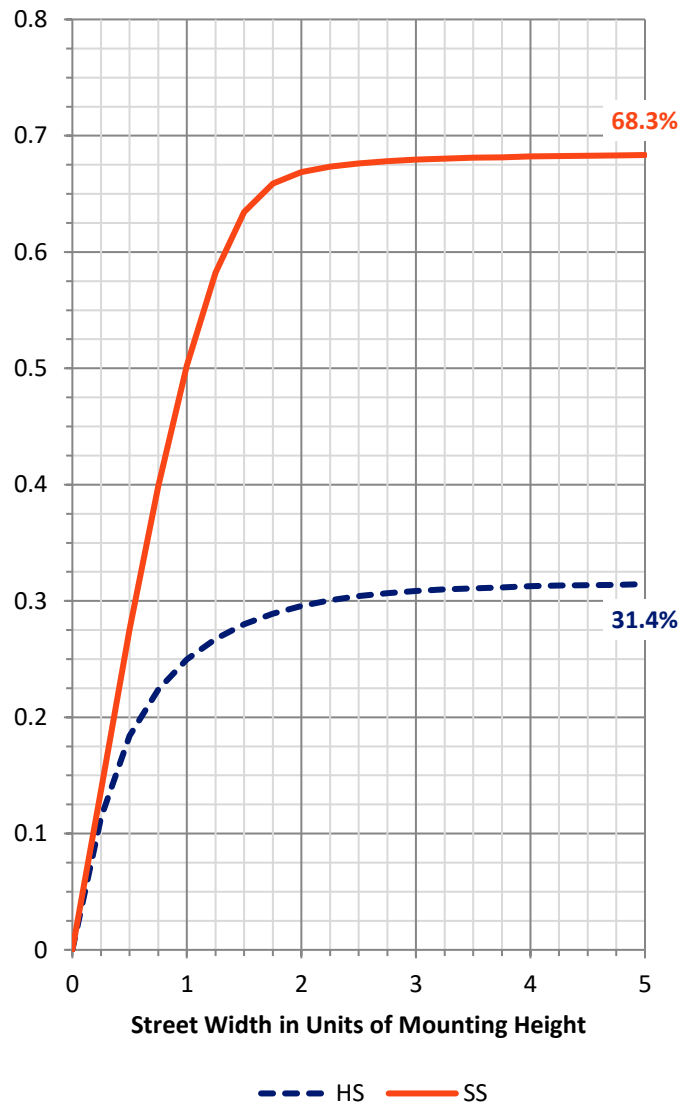
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1051.3	0.0	1051.3
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	2266.4	0.0	2266.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	3317.7	0.0	3317.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	2.0
10°-20°	204.8	6.2
20°-30°	362.1	10.9
30°-40°	543.9	16.4
40°-50°	746.4	22.5
50°-60°	889.2	26.8
60°-70°	380.5	11.5
70°-80°	107.7	3.2
80°-90°	18.1	0.5
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°	3317.7	100.0
0°-180°	3317.7	100.0

**Coefficient of Utilization**

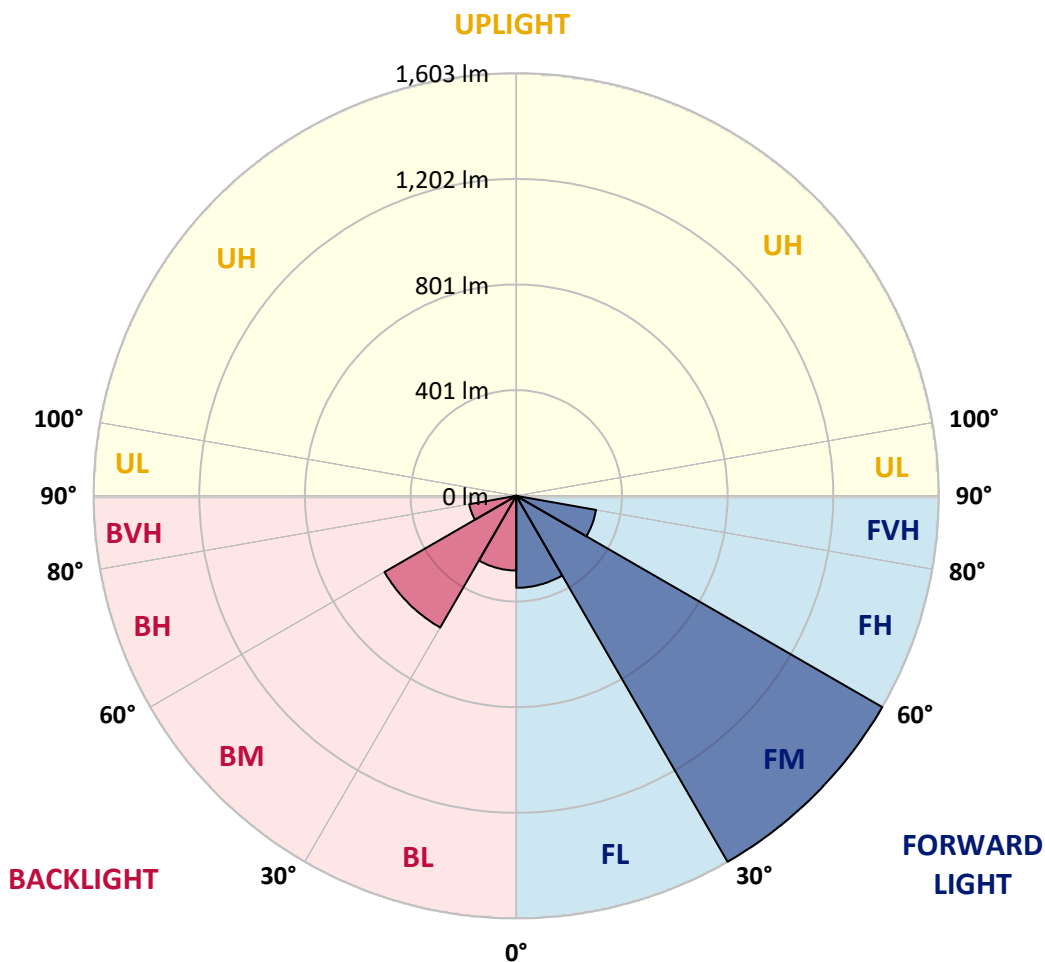


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.8	10.5			
FM (30°-60°)	1602.5	48.3			
FH (60°-80°)	307.3	9.3			G0/660
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	283.1	8.5	B1/500		
BM (30°-60°)	577.0	17.4	B1/1000		
BH (60°-80°)	180.9	5.5	B1/500		G1/500
BVH (80°-90°)	10.4	0.3			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°	47°	55°	65°	75°	85°
0°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	663.9	662.6	661.8	668.5	666.0	666.4	663.9	666.4	668.1	664.3	669.9
5°	662.6	666.4	663.0	665.1	670.7	668.9	670.7	675.7	674.5	673.2	671.5
7.5°	674.5	674.9	677.4	678.3	679.9	678.3	680.8	685.5	684.2	677.0	677.8
10°	691.4	692.2	692.6	697.4	700.3	700.7	697.8	693.5	693.1	702.8	696.0
12.5°	710.9	708.7	713.8	715.5	718.9	722.7	726.5	717.6	723.2	723.6	715.5
15°	739.2	741.3	735.4	735.4	736.7	737.1	747.6	743.4	742.6	738.0	741.3
17.5°	781.5	767.2	766.7	760.8	759.9	763.3	767.2	770.5	782.0	772.6	754.5
20°	812.4	815.8	803.5	796.3	797.6	805.3	801.4	816.6	824.7	809.5	791.7
22.5°	867.0	855.5	858.6	842.4	843.7	851.8	851.3	867.0	871.6	847.6	821.7
25°	903.8	900.9	903.4	890.7	892.4	898.7	908.9	934.7	927.1	900.5	840.7
27.5°	957.6	951.6	949.5	944.9	943.2	960.1	971.9	999.4	994.0	955.0	874.6
30°	1012.6	1008.8	1010.9	991.8	998.6	1034.6	1038.0	1075.6	1073.0	1004.5	912.2
32.5°	1050.7	1052.8	1056.5	1046.0	1076.1	1104.8	1116.3	1159.0	1161.1	1089.6	985.1
35°	1112.0	1104.8	1106.9	1119.2	1133.2	1185.6	1204.2	1232.6	1250.4	1178.8	1054.9
37.5°	1150.5	1158.1	1149.2	1168.7	1205.1	1268.1	1285.0	1314.2	1332.9	1266.9	1150.1
40°	1210.6	1198.3	1204.6	1218.6	1255.9	1337.9	1333.3	1363.3	1369.2	1341.7	1239.0
42.5°	1275.3	1269.4	1260.5	1292.3	1323.6	1383.2	1392.5	1378.6	1408.6	1415.0	1365.9
45°	1352.7	1360.0	1361.2	1362.1	1389.6	1441.6	1428.9	1416.7	1451.3	1497.5	1444.6
47.5°	1424.7	1401.9	1418.3	1441.2	1480.2	1480.6	1495.4	1466.1	1503.0	1544.0	1515.7
50°	1448.8	1437.8	1459.8	1503.0	1563.1	1569.4	1571.1	1529.6	1548.7	1581.2	1540.2
52.5°	1439.5	1435.7	1491.9	1558.8	1646.8	1679.0	1687.5	1636.2	1646.8	1632.0	1594.4
55°	1395.1	1406.5	1463.2	1599.4	1734.4	1833.9	1849.9	1785.2	1717.9	1729.3	1687.9
56°	1334.2	1314.2	1377.7	1553.3	1730.6	1884.2	1897.3	1816.5	1770.8	1756.0	1687.0
57.5°	1131.9	1106.1	1189.4	1397.6	1634.6	1865.2	1874.9	1829.6	1761.9	1731.9	1563.9
60°	662.6	675.3	781.1	963.9	1260.9	1529.2	1561.8	1594.8	1549.5	1415.0	1164.0
62.5°	319.9	311.8	387.6	552.6	768.4	976.1	966.5	1059.1	1109.9	1005.3	734.9
65°	167.5	166.7	211.6	301.7	422.3	512.8	521.8	571.6	641.4	517.9	373.2
67.5°	123.1	126.5	148.9	212.0	271.6	277.2	275.8	300.8	307.6	260.2	229.3
70°	96.5	98.1	114.6	161.2	202.3	181.1	177.3	180.2	200.2	208.6	198.5
72.5°	69.8	71.5	85.4	108.7	126.5	123.5	126.1	142.6	167.1	176.0	165.4
75°	46.5	47.9	55.4	66.4	74.9	80.8	85.4	104.5	127.3	132.5	127.3
77.5°	32.1	33.4	38.5	46.9	47.9	51.6	53.3	62.2	76.2	82.5	79.1
80°	18.2	18.2	20.8	24.1	29.6	34.7	35.6	42.7	49.1	53.3	54.2
82.5°	8.5	8.9	11.0	14.8	19.4	24.1	25.0	29.6	34.3	38.5	39.8
85°	4.2	4.6	6.3	8.9	11.9	14.4	14.0	14.4	15.2	14.4	14.8
87.5°	1.3	1.3	1.7	2.1	1.7	2.1	2.1	2.5	2.9	3.4	3.8
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°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	670.3	671.5	663.0	671.1	668.1	667.7	673.6	672.8	674.9	674.1	668.9
5°	670.7	667.7	676.6	668.5	672.4	680.4	674.9	687.6	681.2	685.5	676.2
7.5°	683.8	684.7	683.0	686.3	684.7	688.4	685.5	688.4	683.4	683.8	692.2
10°	695.2	692.6	695.6	691.4	694.3	693.1	686.3	684.2	685.9	683.8	689.3
12.5°	716.4	711.7	709.6	704.5	701.1	688.4	677.8	672.0	679.9	681.2	678.7
15°	738.0	738.4	728.6	717.2	696.0	677.0	679.5	681.6	681.6	685.1	678.7
17.5°	751.5	751.5	742.6	719.7	698.2	687.2	684.7	677.8	672.0	671.1	670.7
20°	775.1	768.0	747.6	719.3	697.4	692.2	673.2	657.2	644.9	640.6	640.2
22.5°	802.2	784.1	755.7	720.1	696.0	688.9	653.3	629.2	607.2	597.9	599.1
25°	827.2	798.0	760.3	716.4	691.4	656.7	617.0	583.5	560.6	553.0	549.3
27.5°	844.5	812.8	760.3	719.7	674.1	620.7	580.1	537.4	517.5	512.4	513.3
30°	867.8	831.5	773.5	712.6	639.3	574.2	525.5	497.6	485.8	481.6	484.5
32.5°	922.4	880.1	791.7	695.2	598.3	527.6	488.3	472.6	455.3	446.8	443.9
35°	981.7	926.3	809.5	666.0	552.2	485.3	460.8	446.4	425.6	416.4	418.1
37.5°	1065.5	985.5	810.7	617.8	502.2	461.6	439.2	416.8	399.9	385.5	381.2
40°	1178.4	1066.3	807.8	567.0	462.0	433.7	417.2	389.3	370.2	360.1	362.2
42.5°	1277.9	1161.1	795.5	509.5	425.6	414.7	396.0	368.5	349.9	339.3	338.5
45°	1361.7	1230.9	772.2	460.4	395.2	393.5	372.0	350.8	336.0	326.2	330.4
47.5°	1439.0	1287.2	737.1	411.2	367.3	370.6	349.9	336.8	327.5	318.7	318.2
50°	1467.0	1286.3	706.2	370.6	344.9	343.1	342.3	328.3	318.7	311.0	314.4
52.5°	1513.5	1300.7	672.8	342.7	324.5	325.0	327.9	317.8	306.8	302.1	306.4
55°	1580.4	1302.8	599.1	310.2	307.6	310.6	310.6	303.8	294.5	290.7	288.5
56°	1525.8	1239.8	537.4	301.7	299.1	299.1	307.2	299.6	288.1	285.2	282.7
57.5°	1407.3	1086.2	449.8	291.6	287.7	293.7	297.9	289.8	279.3	275.0	277.6
60°	970.7	734.9	338.1	269.5	269.5	279.3	282.7	270.8	266.2	265.8	262.3
62.5°	566.6	428.2	264.5	249.6	250.5	258.5	261.0	254.3	248.3	255.6	258.9
65°	300.4	255.6	226.8	228.5	228.9	235.2	246.2	245.8	245.4	247.5	247.9
67.5°	217.5	212.4	206.0	204.4	205.2	209.9	220.8	229.3	228.9	223.9	220.0
70°	193.8	186.6	182.8	183.3	179.8	185.4	194.2	199.7	190.0	184.1	181.5
72.5°	161.2	159.1	156.6	157.0	150.2	148.9	138.8	138.8	136.2	134.6	137.5
75°	123.1	122.3	123.5	121.4	114.2	106.6	100.7	95.2	86.7	83.3	81.7
77.5°	77.9	80.4	83.3	78.7	75.8	70.2	64.3	58.8	52.1	48.3	48.3
80°	52.9	55.0	57.1	56.3	52.9	47.9	43.1	37.3	32.5	29.6	29.2
82.5°	40.2	41.9	44.8	41.5	38.1	33.9	30.0	25.8	21.6	18.2	18.2
85°	14.4	16.5	18.2	19.8	21.2	21.6	18.6	15.2	12.3	9.8	9.3
87.5°	3.8	4.2	4.6	4.2	4.2	4.2	4.6	4.2	3.8	2.9	2.9
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)