

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: P450589

Luminaire Tested: **GALN-SA1B-827-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4197 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

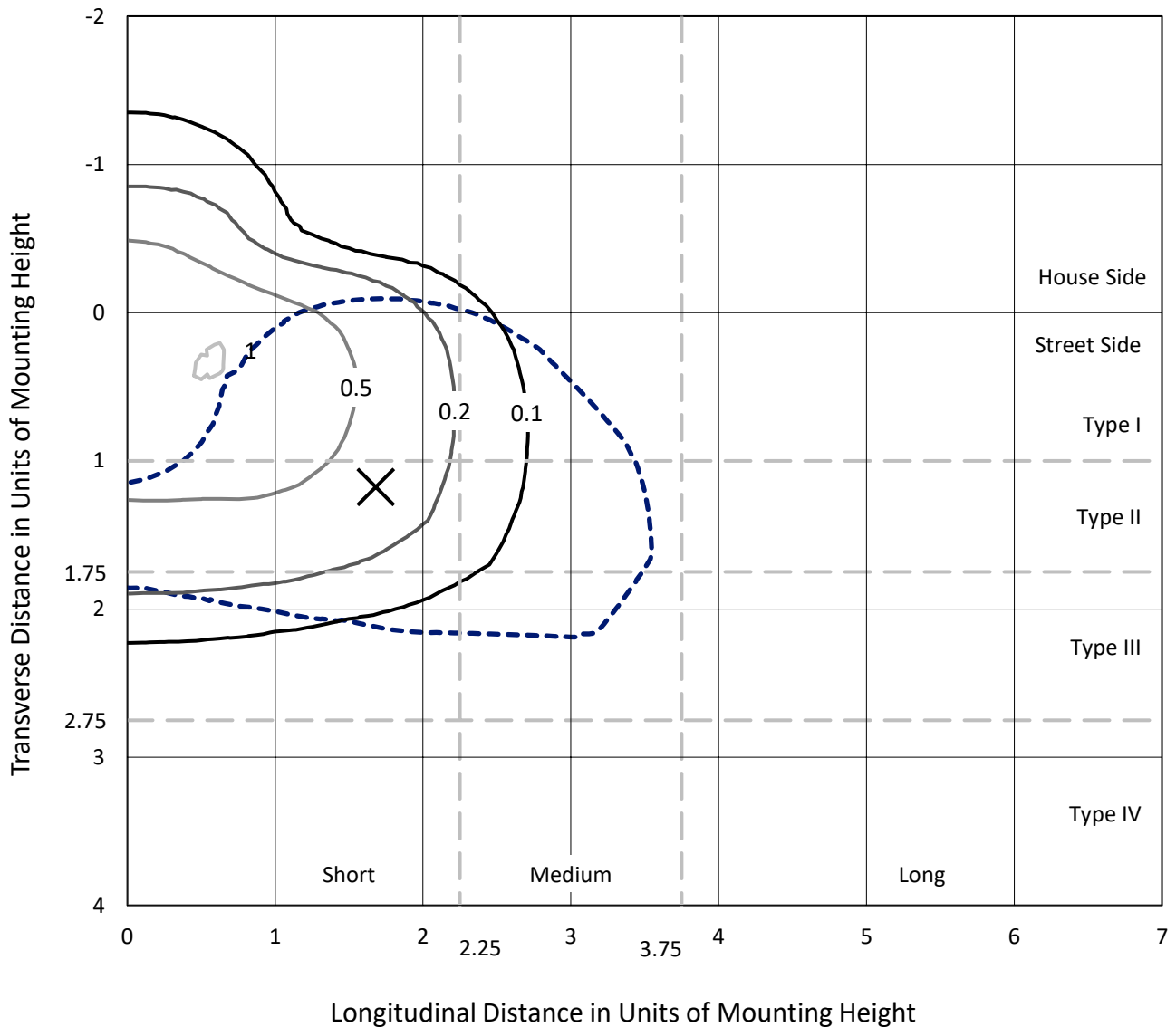
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450589  
 CATALOG NUMBER: GALN-SA1B-827-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

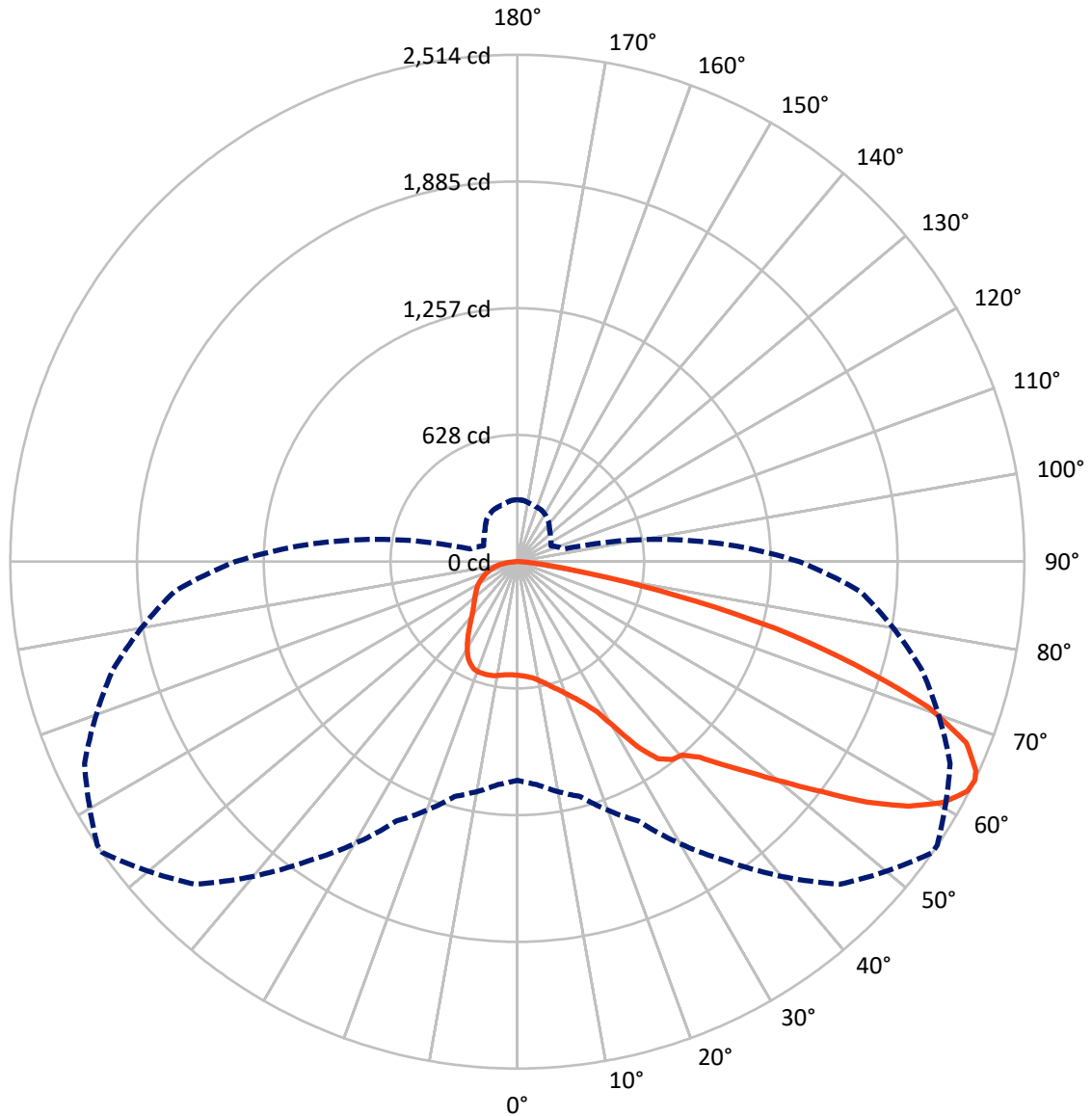
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

REPORT NUMBER: P450589  
CATALOG NUMBER: GALN-SA1B-827-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P450589

CATALOG NUMBER: GALN-SA1B-827-U-T3

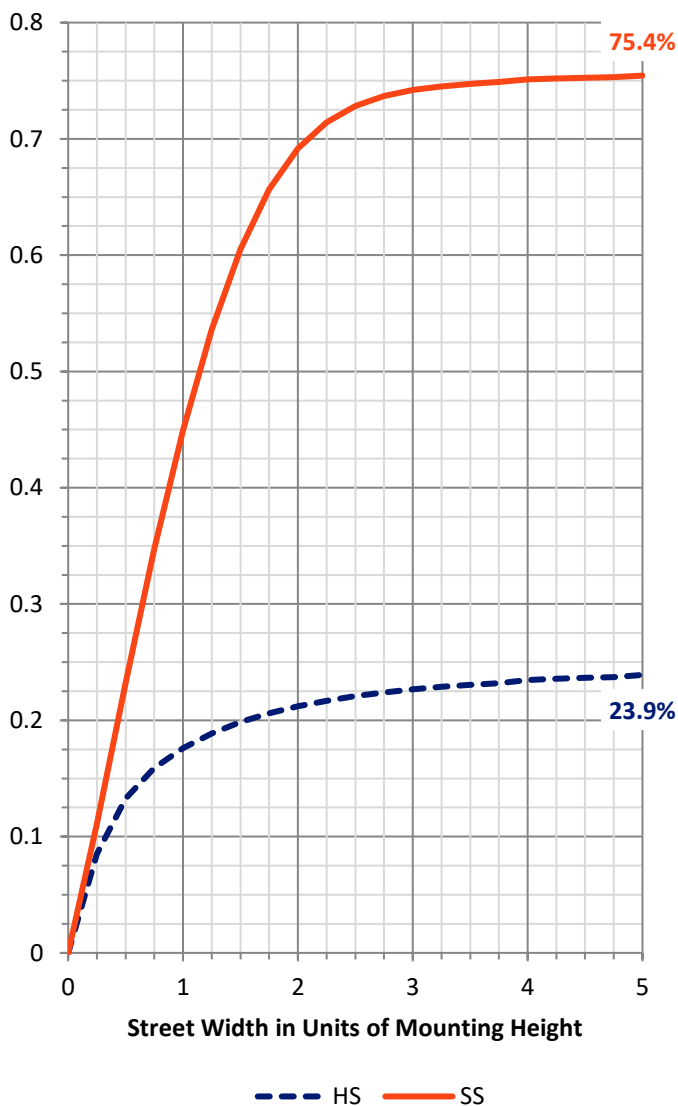
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1019.5	0.0	1019.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	3177.5	0.0	3177.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	4197.0	0.0	4197.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	1.3
10°-20°	172.8	4.1
20°-30°	307.7	7.3
30°-40°	473.4	11.3
40°-50°	671.1	16.0
50°-60°	971.4	23.1
60°-70°	1005.3	24.0
70°-80°	470.8	11.2
80°-90°	69.7	1.7
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°	4197.0	100.0
0°-180°	4197.0	100.0



REPORT NUMBER: P450589

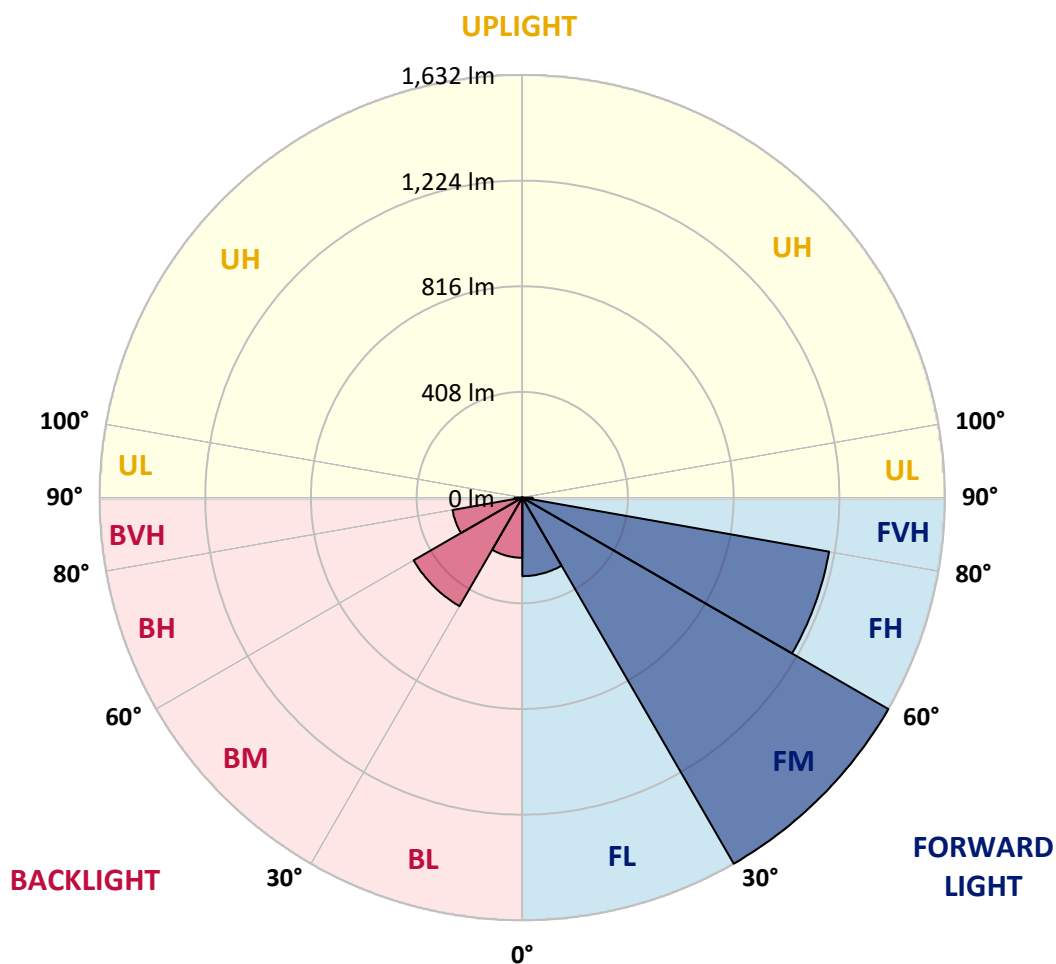
CATALOG NUMBER: GALN-SA1B-827-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.1	7.2			
FM (30°-60°)	1631.9	38.9			
FH (60°-80°)	1202.6	28.7			G1/1800
FVH (80°-90°)	39.9	1.0			G1/100
BL (0°-30°)	232.2	5.5	B1/500		
BM (30°-60°)	484.0	11.5	B1/1000		
BH (60°-80°)	273.5	6.5	B1/500		G1/500
BVH (80°-90°)	29.8	0.7			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 III Short





REPORT NUMBER: P450589

CATALOG NUMBER: GALN-SA1B-827-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1
2.5°	569.4	569.2	569.9	569.2	569.7	568.0	567.3	567.8	567.1	565.9	563.8
5°	576.4	576.2	576.4	575.5	576.0	575.0	573.4	573.9	572.7	570.1	567.1
7.5°	588.4	587.4	587.4	587.2	586.3	584.9	583.7	583.2	582.1	578.8	574.1
10°	603.8	603.8	604.1	602.2	603.3	600.8	599.6	599.4	595.4	591.2	584.6
12.5°	624.2	625.3	624.6	623.7	623.2	622.3	618.3	619.3	614.8	607.6	599.6
15°	649.4	651.3	650.1	649.7	648.5	645.0	643.4	642.7	636.8	626.3	615.7
17.5°	682.9	680.6	679.6	678.4	673.5	671.0	668.2	667.7	662.5	650.1	633.8
20°	712.1	715.4	713.5	712.4	707.5	702.5	700.4	699.7	695.3	681.7	655.5
22.5°	747.0	747.7	748.4	745.6	743.3	739.5	735.8	734.6	733.0	718.9	686.9
25°	784.2	787.0	784.7	781.9	779.0	778.8	782.3	781.9	781.1	767.6	728.5
27.5°	844.8	847.4	848.1	845.0	834.3	835.2	843.1	845.7	856.5	834.0	782.1
30°	878.9	881.5	887.4	898.8	915.9	930.9	950.1	955.9	966.2	923.9	845.7
32.5°	900.0	900.9	911.5	932.7	984.0	1039.9	1092.1	1094.2	1100.7	1041.3	904.0
35°	933.2	933.9	942.3	965.7	1025.9	1119.0	1199.7	1202.3	1196.9	1077.8	931.1
37.5°	974.2	976.0	981.4	1000.8	1072.6	1185.2	1244.4	1242.5	1194.8	1106.8	979.1
40°	1033.8	1033.8	1027.5	1053.7	1122.0	1223.1	1260.0	1256.8	1244.1	1190.8	1052.1
42.5°	1086.5	1085.5	1100.5	1118.3	1183.8	1281.6	1325.8	1331.2	1352.0	1296.3	1135.1
45°	1155.0	1159.2	1167.6	1199.9	1288.8	1381.5	1438.5	1443.7	1473.2	1420.5	1232.2
47.5°	1224.2	1225.6	1252.1	1295.1	1418.9	1516.9	1563.7	1572.1	1599.0	1565.8	1336.8
50°	1273.4	1286.7	1329.1	1396.9	1552.9	1682.1	1718.6	1728.6	1776.1	1724.0	1458.7
52.5°	1325.3	1338.4	1390.1	1493.5	1706.9	1851.0	1895.9	1902.7	1952.1	1884.0	1583.4
55°	1369.8	1381.9	1440.6	1579.1	1829.5	2023.4	2104.8	2096.9	2120.5	2007.3	1679.5
57.5°	1377.0	1386.8	1460.8	1633.9	1921.6	2171.3	2288.0	2292.7	2265.3	2099.4	1758.8
60°	1320.9	1341.0	1425.9	1628.0	1963.1	2274.2	2424.6	2427.9	2350.2	2146.7	1790.4
62.5°	1221.4	1219.3	1322.0	1534.0	1905.0	2297.6	2505.1	2501.6	2383.5	2124.0	1759.8
64°	1084.1	1109.4	1205.3	1418.4	1811.5	2261.6	2513.5	2511.7	2367.5	2076.7	1707.6
65°	1000.4	999.0	1093.7	1323.9	1718.3	2207.3	2498.6	2496.0	2334.3	2034.4	1667.1
67.5°	722.2	725.5	819.0	1021.6	1396.9	1995.1	2401.0	2391.4	2203.3	1894.0	1513.2
70°	437.5	439.4	512.8	677.7	1002.7	1612.8	2164.2	2164.7	2002.8	1684.4	1287.9
72.5°	230.4	235.4	264.8	384.8	609.0	1131.6	1755.8	1797.4	1719.5	1437.6	1017.4
75°	128.2	128.9	149.7	189.7	310.7	633.3	1319.7	1331.6	1361.3	1157.1	752.4
77.5°	97.8	99.2	105.7	122.6	169.1	293.6	798.7	858.6	959.4	815.8	429.3
80°	79.3	80.7	86.3	96.4	112.5	139.2	371.0	403.3	513.5	362.2	167.5
82.5°	61.8	60.8	68.1	74.6	81.9	82.3	152.3	168.4	209.1	155.8	72.5
85°	45.9	45.9	51.7	50.3	52.9	48.2	67.1	74.2	83.8	66.2	33.7
87.5°	18.2	20.1	33.9	30.4	23.6	18.9	24.8	26.2	29.0	26.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450589  
 CATALOG NUMBER: GALN-SA1B-827-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1
2.5°	564.0	564.7	563.1	561.9	561.5	560.8	560.1	560.3	561.2	562.2	561.9
5°	566.9	567.1	564.3	562.9	561.9	561.0	561.0	561.7	563.6	565.0	565.0
7.5°	573.9	573.9	569.9	567.3	565.9	564.3	563.8	564.0	565.5	567.3	567.6
10°	584.9	583.9	578.8	574.8	572.2	568.3	564.7	562.9	563.6	564.7	564.7
12.5°	598.2	595.6	589.1	583.7	577.4	569.9	562.6	558.9	558.7	559.8	559.4
15°	612.5	609.7	600.5	590.7	579.7	568.7	560.1	554.7	550.5	549.3	551.9
17.5°	629.1	623.2	610.6	597.0	580.7	566.4	552.8	541.8	534.3	532.2	532.9
20°	649.2	641.5	624.4	603.1	580.0	558.0	536.9	522.2	510.0	506.3	506.7
22.5°	677.0	663.7	638.7	606.2	574.1	542.1	512.8	493.6	478.9	473.0	476.6
25°	708.6	694.1	652.2	605.5	558.9	516.6	484.3	459.2	445.9	437.2	439.1
27.5°	752.1	726.4	666.7	599.1	537.1	485.4	448.0	424.4	412.2	407.8	409.9
30°	807.8	768.3	682.4	582.1	502.8	446.1	411.5	396.1	388.8	383.2	385.1
32.5°	848.1	797.8	685.9	553.3	465.6	410.3	386.7	375.3	367.3	361.9	363.1
35°	876.8	822.8	684.3	518.0	426.7	380.9	367.1	357.7	344.8	333.1	331.0
37.5°	915.4	854.1	672.4	479.4	388.4	361.0	351.2	333.8	315.4	299.7	299.0
40°	974.6	890.9	646.9	434.0	355.6	346.2	334.3	311.9	292.0	279.3	278.4
42.5°	1035.7	924.8	612.2	386.2	328.7	330.8	316.3	294.1	281.9	273.7	272.8
45°	1110.3	961.5	574.8	344.8	308.8	316.3	300.6	287.8	280.5	275.1	273.7
47.5°	1191.0	999.2	532.7	307.6	292.0	303.0	294.1	288.2	284.2	280.5	278.9
50°	1278.1	1041.3	493.2	277.7	276.8	289.2	293.4	291.3	288.9	287.8	286.4
52.5°	1373.5	1084.3	459.9	256.6	263.4	279.3	293.6	295.2	295.2	294.5	293.6
55°	1438.1	1114.3	426.3	239.6	249.9	271.4	293.1	299.5	301.8	300.9	299.9
57.5°	1485.8	1130.7	383.9	224.8	238.4	263.7	290.6	299.9	302.3	303.4	303.0
60°	1495.6	1115.5	328.5	209.4	226.0	252.4	281.2	292.9	295.9	303.2	303.9
62.5°	1451.4	1068.7	273.3	194.2	210.8	235.4	268.6	284.9	291.0	302.3	303.4
64°	1397.1	1016.3	242.6	184.6	201.0	225.8	262.3	282.8	290.8	305.8	306.7
65°	1357.4	978.1	223.4	178.5	194.6	219.4	258.7	283.5	292.9	311.1	312.6
67.5°	1210.9	846.9	184.8	164.2	179.7	208.7	259.4	289.4	292.4	313.3	313.0
70°	1002.0	674.2	154.9	151.1	165.2	200.0	256.6	280.0	280.3	294.1	290.8
72.5°	750.3	498.3	134.3	137.6	149.0	179.4	242.4	267.4	263.4	265.3	262.0
75°	515.4	329.6	115.6	123.1	132.2	158.6	222.2	242.8	236.5	234.2	231.8
77.5°	275.1	182.2	96.2	108.8	114.9	137.1	193.9	213.8	207.3	198.2	195.1
80°	111.4	85.9	77.4	90.1	93.6	110.4	161.4	173.8	168.9	153.0	147.9
82.5°	55.9	51.5	60.8	70.9	71.1	78.8	120.0	131.7	120.7	101.3	96.9
85°	29.2	30.2	41.9	49.8	44.0	42.6	72.1	79.8	73.2	63.6	57.3
87.5°	10.5	12.2	22.0	21.8	15.4	8.2	15.9	7.7	4.2	2.6	3.3
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)