

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: P450207

Luminaire Tested: **GALN-SA1A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2893 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

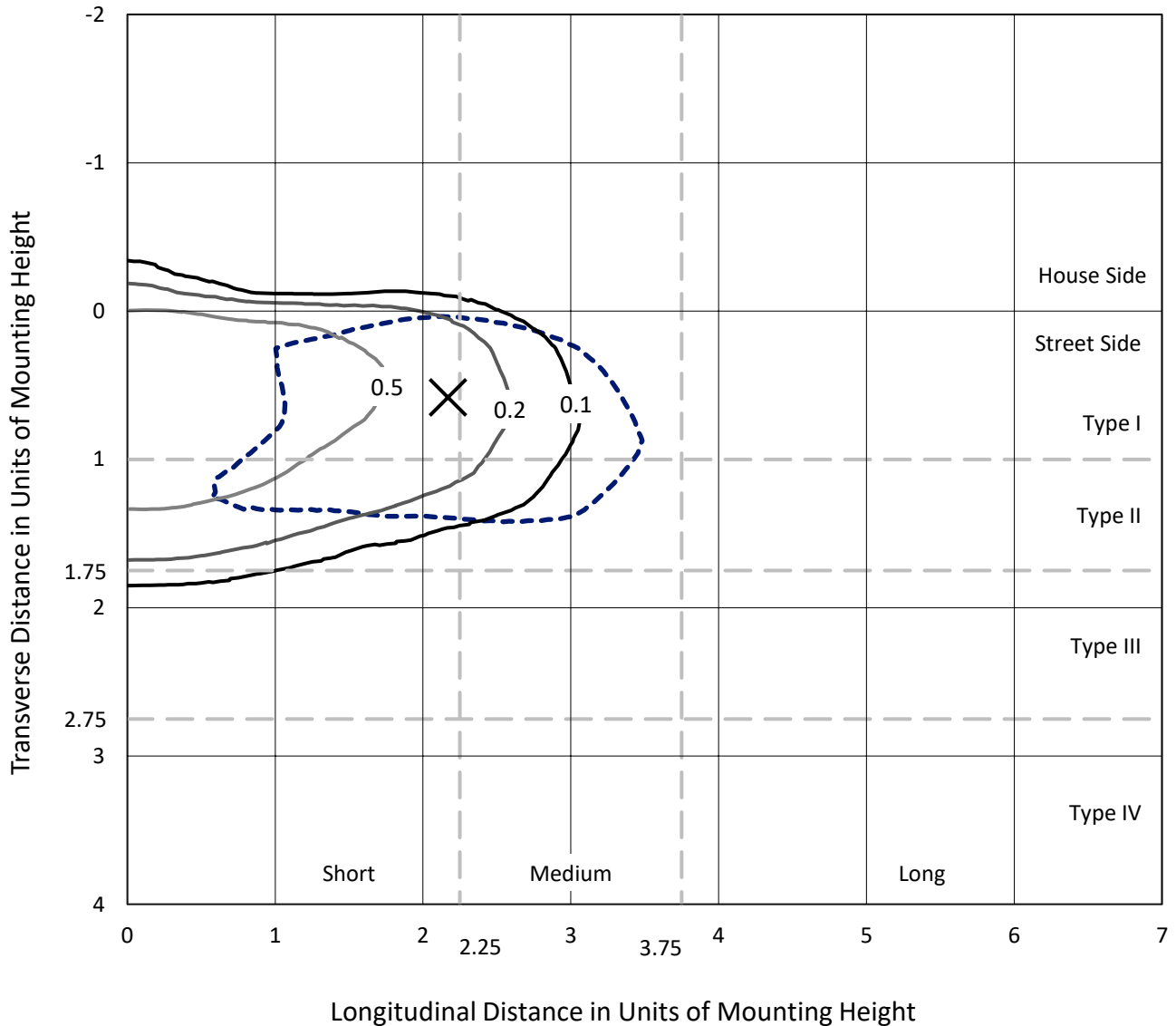
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450207
 CATALOG NUMBER: GALN-SA1A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

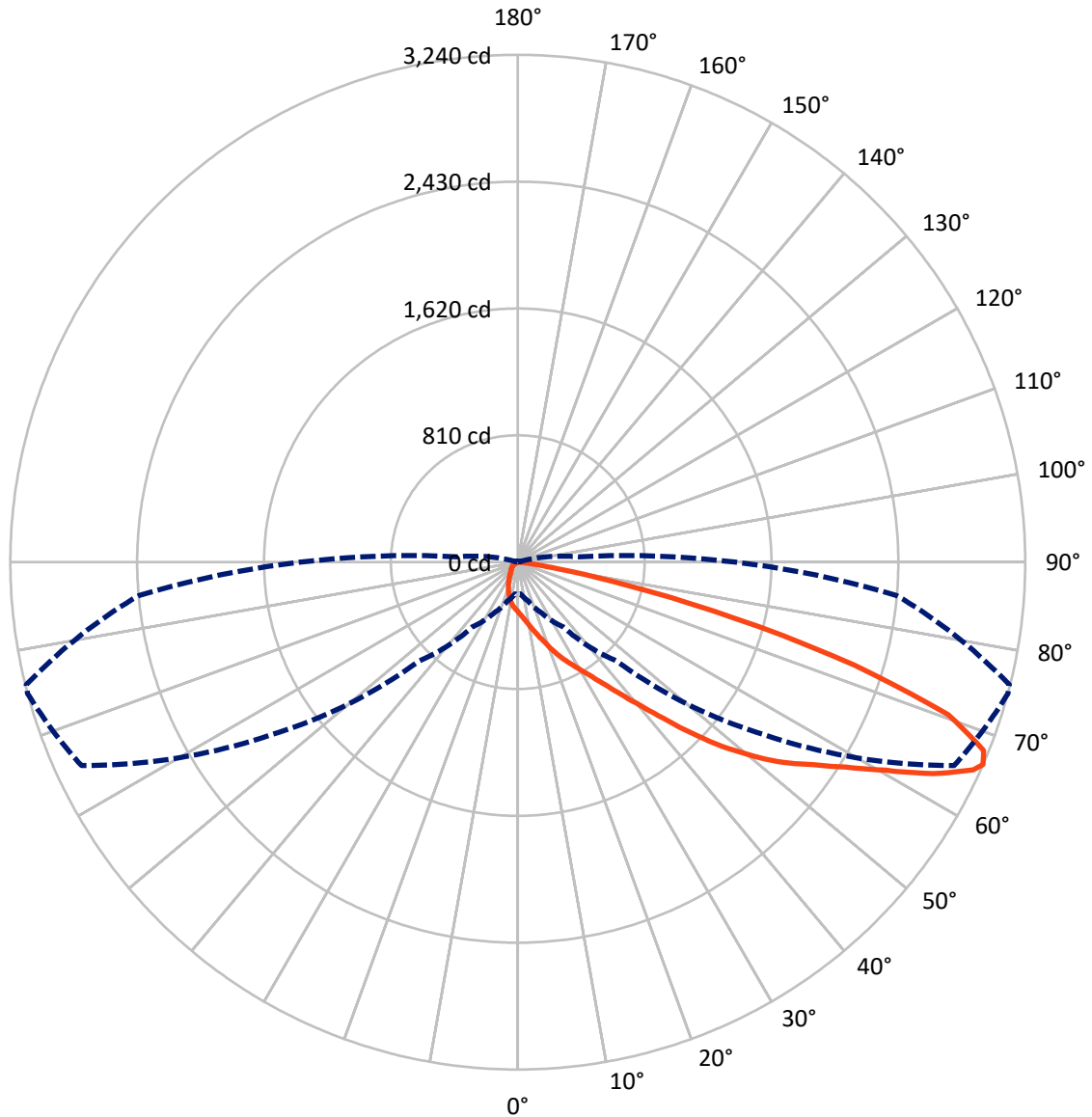
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - N/A

REPORT NUMBER: P450207
CATALOG NUMBER: GALN-SA1A-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P450207

CATALOG NUMBER: GALN-SA1A-727-U-T2-HSS

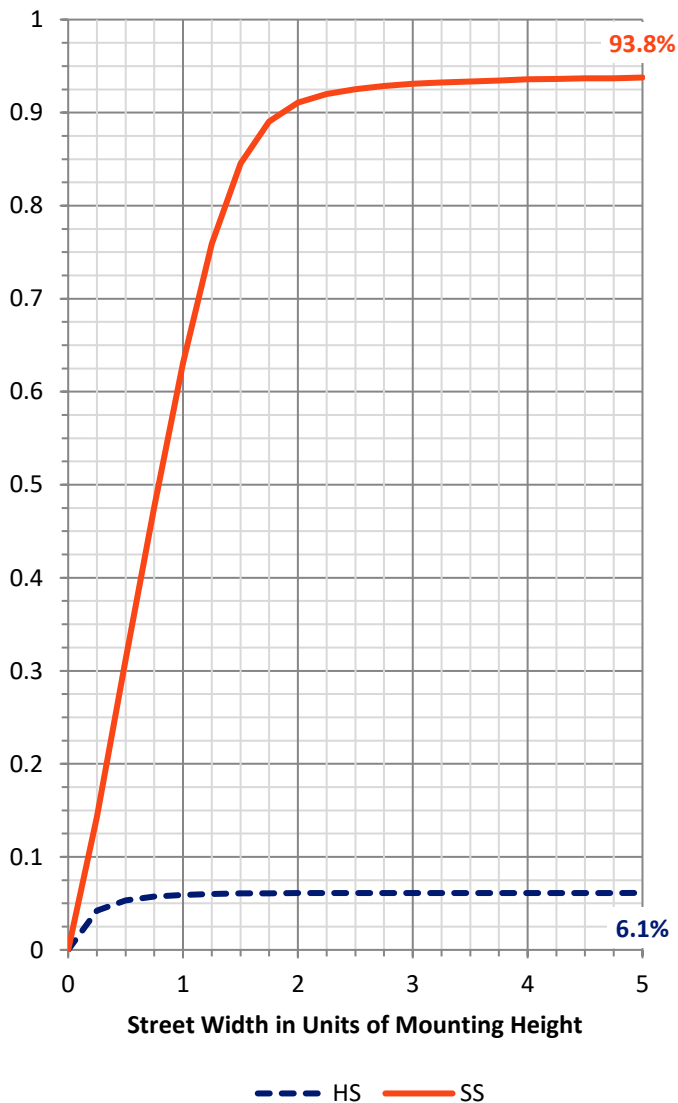
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	178.6	0.0	178.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2714.4	0.0	2714.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	2893.0	0.0	2893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.1
10°-20°	89.8	3.1
20°-30°	155.1	5.4
30°-40°	279.7	9.7
40°-50°	505.3	17.5
50°-60°	787.8	27.2
60°-70°	748.4	25.9
70°-80°	280.5	9.7
80°-90°	15.8	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°	2893.0	100.0
0°-180°	2893.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450207

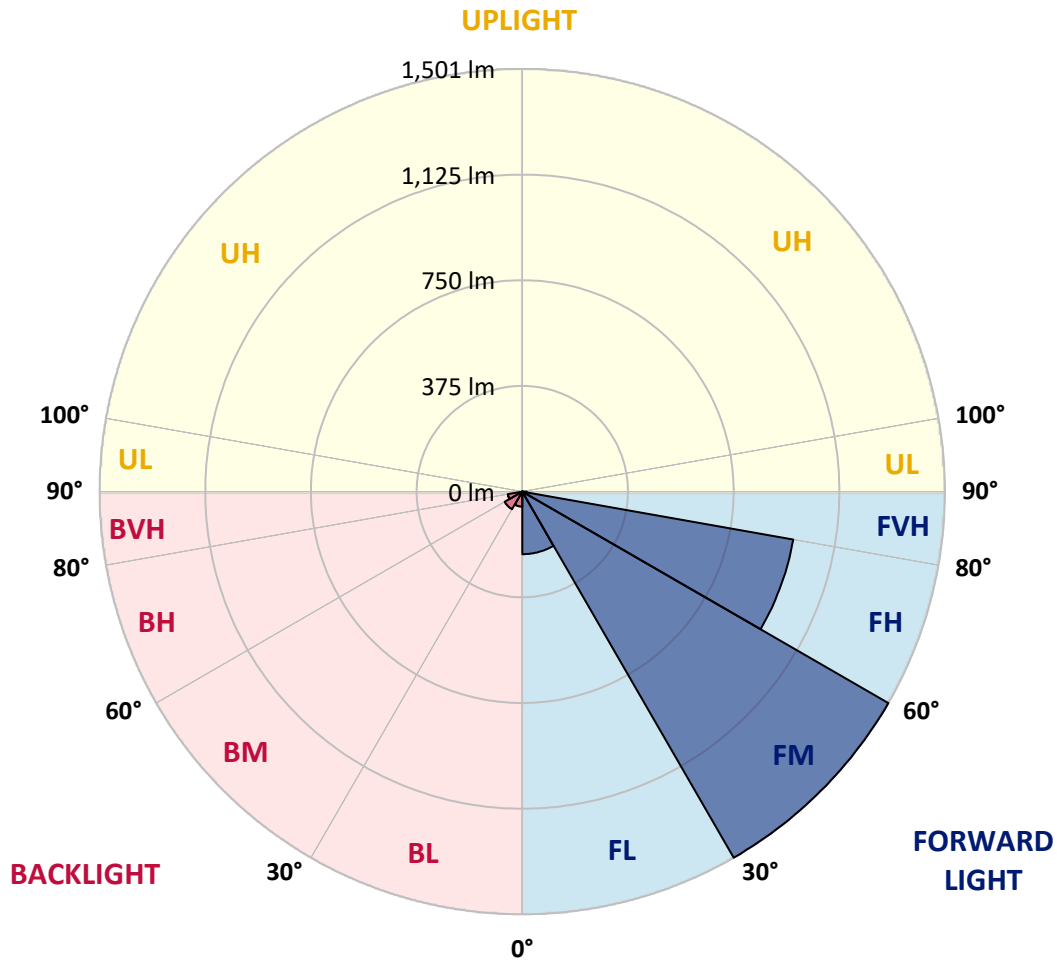
CATALOG NUMBER: GALN-SA1A-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.1	7.7			
FM (30°-60°)	1500.6	51.9			
FH (60°-80°)	976.7	33.8			G1/1800
FVH (80°-90°)	15.0	0.5			G1/100
BL (0°-30°)	53.3	1.8	B0/110		
BM (30°-60°)	72.3	2.5	B0/220		
BH (60°-80°)	52.2	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			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 II Short





REPORT NUMBER: P450207

CATALOG NUMBER: GALN-SA1A-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	378.0	373.3	374.8	372.6	367.7	360.4	354.0	344.8	335.6	334.1	323.9
5°	427.8	426.5	424.8	418.6	415.2	404.1	390.8	375.0	356.0	352.5	333.9
7.5°	461.8	461.2	462.1	458.8	455.8	445.8	431.7	410.1	380.6	378.6	347.6
10°	473.0	474.7	477.9	483.0	487.7	484.5	473.8	446.9	412.4	406.9	363.2
12.5°	466.5	468.5	476.2	489.9	505.0	513.8	509.5	489.9	446.2	441.7	380.8
15°	450.1	452.4	463.3	484.5	511.7	536.5	547.2	533.1	485.6	478.3	401.9
17.5°	425.7	429.1	444.7	472.7	510.0	552.8	582.9	578.2	527.5	520.7	425.0
20°	407.3	409.9	423.1	455.2	502.7	561.7	616.9	630.2	579.3	567.5	452.2
22.5°	419.5	420.3	424.8	444.1	489.6	564.1	646.9	684.3	634.3	623.8	480.4
25°	479.2	470.6	466.1	461.8	486.9	562.0	674.0	740.8	689.0	677.9	508.5
27.5°	573.3	569.4	546.8	516.4	510.6	564.7	692.0	794.3	740.6	728.6	535.9
30°	675.8	669.1	655.2	610.7	566.0	584.4	705.1	846.2	801.5	785.7	560.9
32.5°	769.9	774.2	753.4	707.6	655.9	626.3	722.0	902.9	871.5	851.8	590.0
35°	879.6	888.2	856.3	812.4	751.9	702.1	754.9	966.9	960.3	935.4	634.9
37.5°	991.1	996.2	976.7	915.1	860.6	798.3	816.9	1045.8	1069.6	1048.4	688.6
40°	1084.8	1091.8	1077.5	1022.7	964.5	909.8	907.0	1131.8	1199.6	1177.8	768.6
42.5°	1156.4	1161.8	1162.2	1123.5	1071.1	1046.3	1021.9	1241.6	1362.6	1337.4	861.4
45°	1246.9	1254.6	1250.1	1223.8	1184.7	1180.2	1167.5	1374.2	1557.7	1525.8	981.9
47.5°	1386.8	1391.9	1380.8	1349.8	1310.0	1317.1	1309.6	1522.9	1756.7	1729.3	1106.6
50°	1483.9	1492.5	1508.3	1520.7	1491.8	1465.7	1443.5	1661.7	1945.5	1920.9	1234.1
52.5°	1482.8	1497.0	1547.0	1609.5	1672.6	1664.7	1600.7	1815.1	2125.9	2095.5	1353.9
55°	1383.0	1410.3	1483.9	1594.7	1769.5	1856.6	1827.5	1992.6	2281.6	2261.1	1492.7
57.5°	1176.7	1193.4	1295.7	1450.5	1715.4	1946.8	2090.1	2233.3	2468.3	2458.7	1708.3
60°	791.5	799.0	930.5	1122.0	1460.4	1856.8	2282.7	2524.4	2698.3	2693.6	1960.1
62.5°	453.5	456.7	552.1	713.6	1039.2	1573.5	2298.9	2883.6	2974.0	2976.6	2251.4
65°	244.1	245.8	322.8	418.8	632.3	1121.5	2067.3	3080.4	3196.9	3201.9	2432.0
66°	210.7	202.6	256.9	357.0	503.1	892.7	1920.7	3073.3	3239.7	3234.4	2425.6
67.5°	160.2	167.5	205.1	274.5	372.9	634.7	1585.7	2936.6	3207.2	3190.5	2327.0
70°	114.7	117.7	146.1	195.7	253.9	348.3	1013.3	2439.0	2915.0	2892.5	2027.3
72.5°	74.0	77.2	103.5	141.6	183.5	190.2	567.3	1762.2	2247.4	2244.2	1526.7
75°	52.8	55.8	68.5	101.4	138.0	117.7	273.2	1187.6	1428.7	1419.1	944.4
77.5°	38.3	39.8	45.8	66.3	98.6	84.3	126.6	634.3	711.3	744.8	417.3
80°	22.0	23.3	31.9	40.4	66.7	57.5	60.5	254.6	262.5	249.9	130.5
82.5°	10.9	12.4	19.0	27.6	41.7	38.7	27.8	76.6	80.9	78.7	32.9
85°	2.6	3.2	10.7	18.2	20.3	17.3	13.5	22.5	27.8	27.2	12.6
87.5°	0.2	0.4	3.9	3.2	3.4	5.8	4.7	5.8	9.0	8.3	4.5
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: P450207
 CATALOG NUMBER: GALN-SA1A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	319.2	315.1	303.3	291.8	282.2	272.1	262.9	257.6	255.4	253.1	254.1
5°	323.7	313.8	290.1	269.5	249.4	232.3	218.6	209.8	205.6	204.9	203.9
7.5°	329.6	312.7	275.9	243.9	217.6	198.5	182.9	170.3	166.4	163.0	160.2
10°	336.9	310.8	258.4	216.9	188.9	164.9	144.4	129.4	121.7	119.6	121.1
12.5°	344.6	307.2	240.0	192.1	159.8	129.2	110.2	102.7	100.5	99.7	99.9
15°	352.3	302.7	220.8	168.1	127.3	103.1	94.3	92.4	91.6	91.1	90.7
17.5°	359.4	295.4	199.2	144.8	103.1	88.1	84.9	83.2	81.5	80.9	79.8
20°	367.7	287.1	179.7	118.7	87.3	79.8	75.9	72.7	70.2	68.5	68.2
22.5°	375.6	276.4	159.4	98.4	79.6	71.7	65.5	62.0	59.0	56.9	57.5
25°	379.9	263.3	141.2	85.8	72.5	63.5	56.7	52.4	49.2	48.1	47.9
27.5°	379.9	247.3	123.4	78.5	66.1	56.3	49.2	45.1	43.0	41.5	41.7
30°	376.9	229.5	107.0	72.9	60.5	49.8	43.2	39.6	37.9	36.8	36.6
32.5°	374.6	212.6	92.8	67.6	54.8	44.3	38.5	35.7	34.0	32.9	32.9
35°	378.2	198.1	81.9	62.2	49.4	40.0	34.9	32.3	30.6	29.7	29.5
37.5°	387.8	184.8	73.6	56.5	44.5	36.4	32.3	29.3	27.6	26.5	26.1
40°	411.6	177.3	67.4	51.1	39.8	33.4	29.3	26.5	24.4	23.3	23.1
42.5°	449.6	177.5	61.4	46.2	36.2	30.8	26.7	23.5	21.2	20.1	19.9
45°	507.0	185.7	56.7	41.5	32.9	28.0	24.0	20.5	18.4	17.3	17.3
47.5°	575.6	201.5	52.6	37.4	29.9	25.5	21.2	17.8	15.6	14.8	14.8
50°	650.1	222.0	48.6	33.2	27.4	22.7	18.2	15.4	13.7	13.0	13.0
52.5°	726.0	246.9	44.5	29.7	24.6	19.7	15.6	13.7	12.2	11.8	11.6
55°	825.7	278.5	40.2	26.1	21.6	16.9	13.9	12.0	10.3	9.6	9.4
57.5°	979.1	326.2	35.5	22.9	17.8	14.1	12.0	10.1	8.1	7.1	6.8
60°	1164.1	384.4	30.6	20.1	14.3	11.6	9.6	7.7	6.0	4.7	4.5
62.5°	1337.4	421.4	25.9	16.9	11.3	8.8	6.8	5.8	4.3	3.0	2.8
65°	1414.0	409.0	21.4	13.7	9.0	6.2	4.5	4.1	2.6	1.3	1.1
66°	1388.5	390.6	19.7	12.4	8.1	5.3	3.9	3.4	1.9	0.6	0.6
67.5°	1313.4	347.2	17.1	10.7	7.1	4.3	3.0	2.6	1.1	0.2	0.0
70°	1125.4	280.9	13.5	7.9	5.1	3.0	1.7	1.3	0.6	0.0	0.0
72.5°	864.4	209.2	10.7	6.0	3.6	1.7	0.9	0.4	0.6	0.0	0.0
75°	529.6	119.6	8.3	4.5	2.4	1.1	0.6	0.0	0.6	0.2	0.0
77.5°	235.1	53.7	5.6	3.0	1.7	0.9	0.4	0.0	0.4	0.2	0.0
80°	59.5	17.5	3.2	2.1	1.3	0.6	0.2	0.0	0.4	0.4	0.2
82.5°	16.3	6.4	2.4	1.7	1.1	0.6	0.2	0.0	0.4	0.4	0.4
85°	6.4	3.0	2.1	1.7	1.3	0.6	0.2	0.0	0.4	0.4	0.4
87.5°	3.0	2.1	2.1	1.9	1.5	0.6	0.2	0.0	0.4	0.2	0.4
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)