

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: P450354

Luminaire Tested: **GALN-SA1A-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2723 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

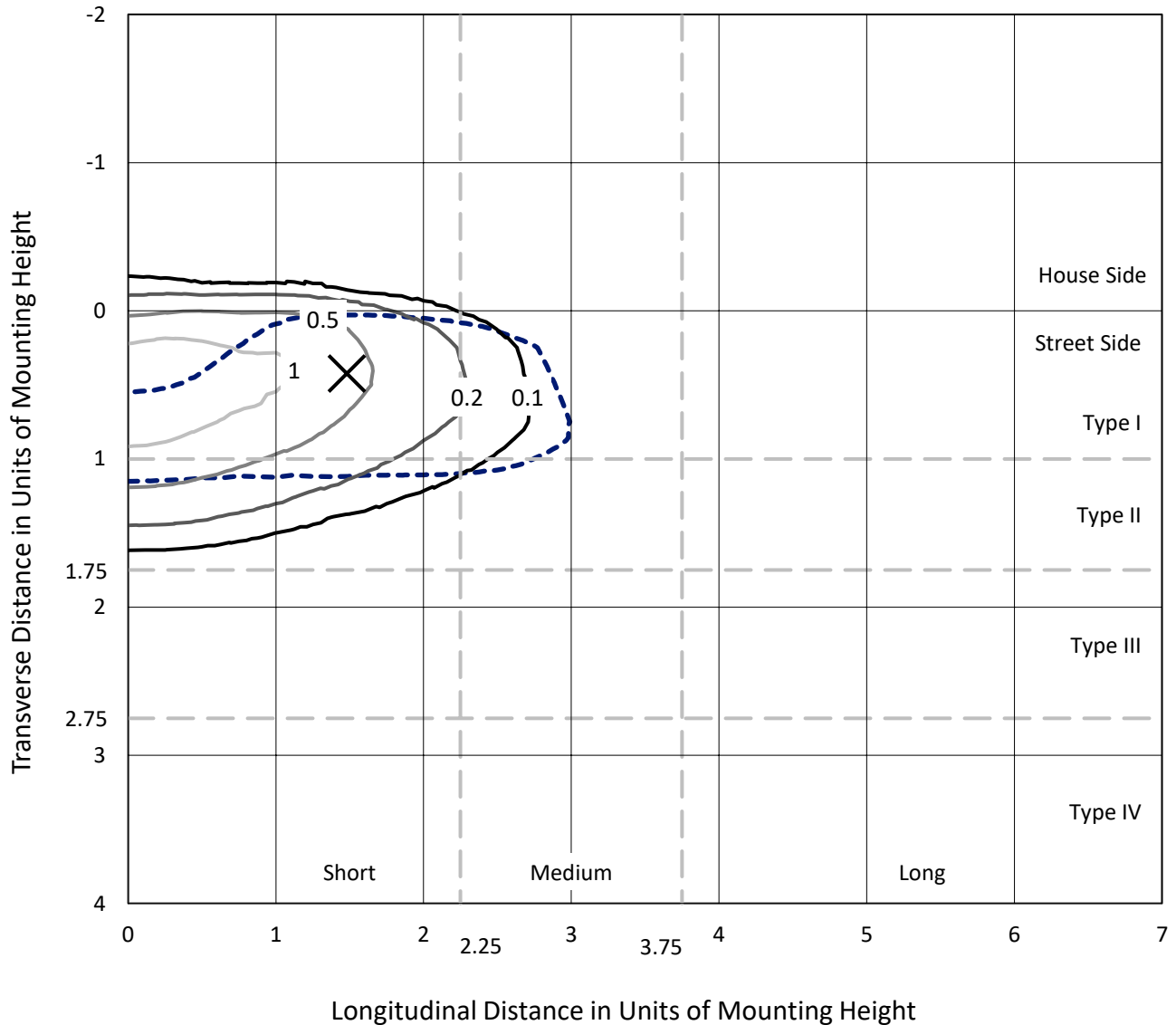
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450354
 CATALOG NUMBER: GALN-SA1A-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

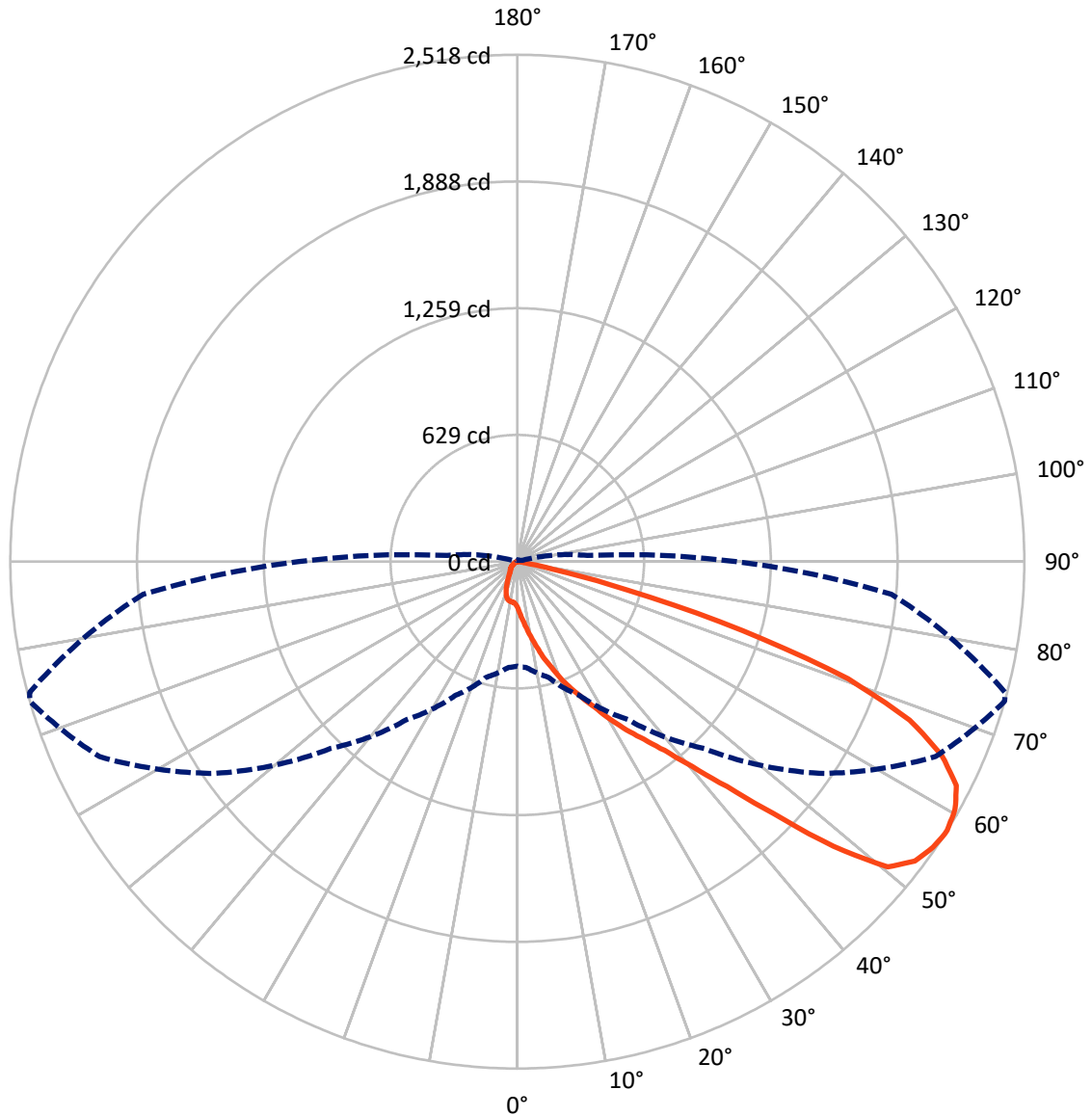
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P450354
CATALOG NUMBER: GALN-SA1A-827-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P450354

CATALOG NUMBER: GALN-SA1A-827-U-T2R-HSS

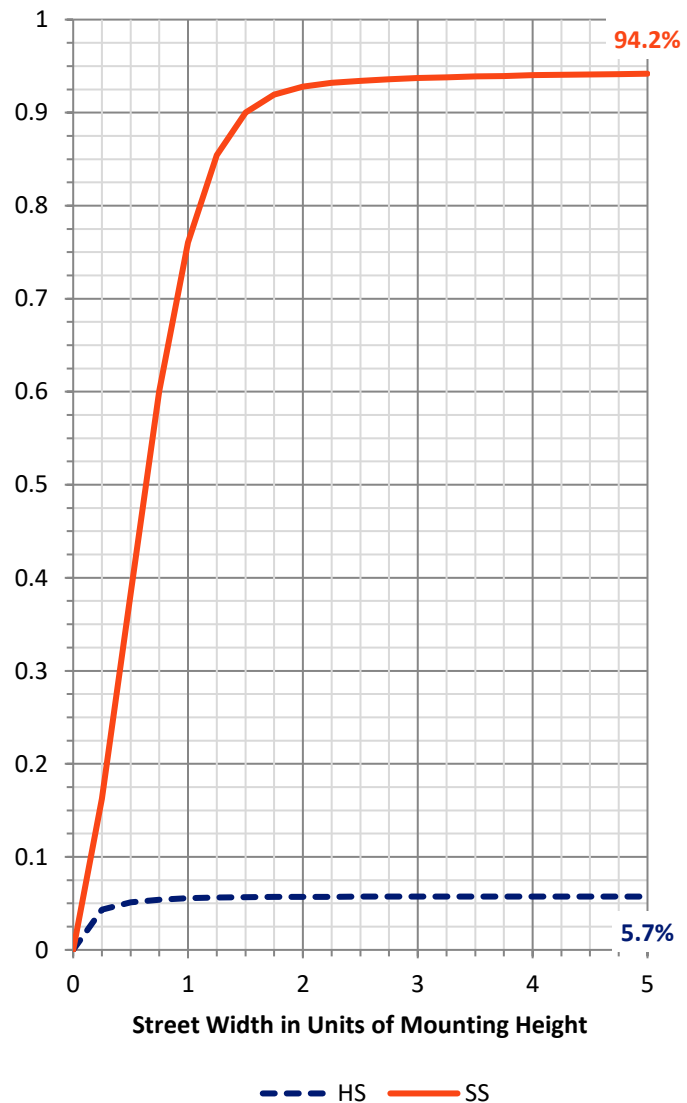
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.1	0.0	157.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	2566.0	0.0	2566.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	2723.0	0.0	2723.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.0
10°-20°	108.5	4.0
20°-30°	232.2	8.5
30°-40°	426.7	15.7
40°-50°	654.1	24.0
50°-60°	692.0	25.4
60°-70°	451.9	16.6
70°-80°	123.5	4.5
80°-90°	6.7	0.2
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°	2723.0	100.0
0°-180°	2723.0	100.0



REPORT NUMBER: P450354

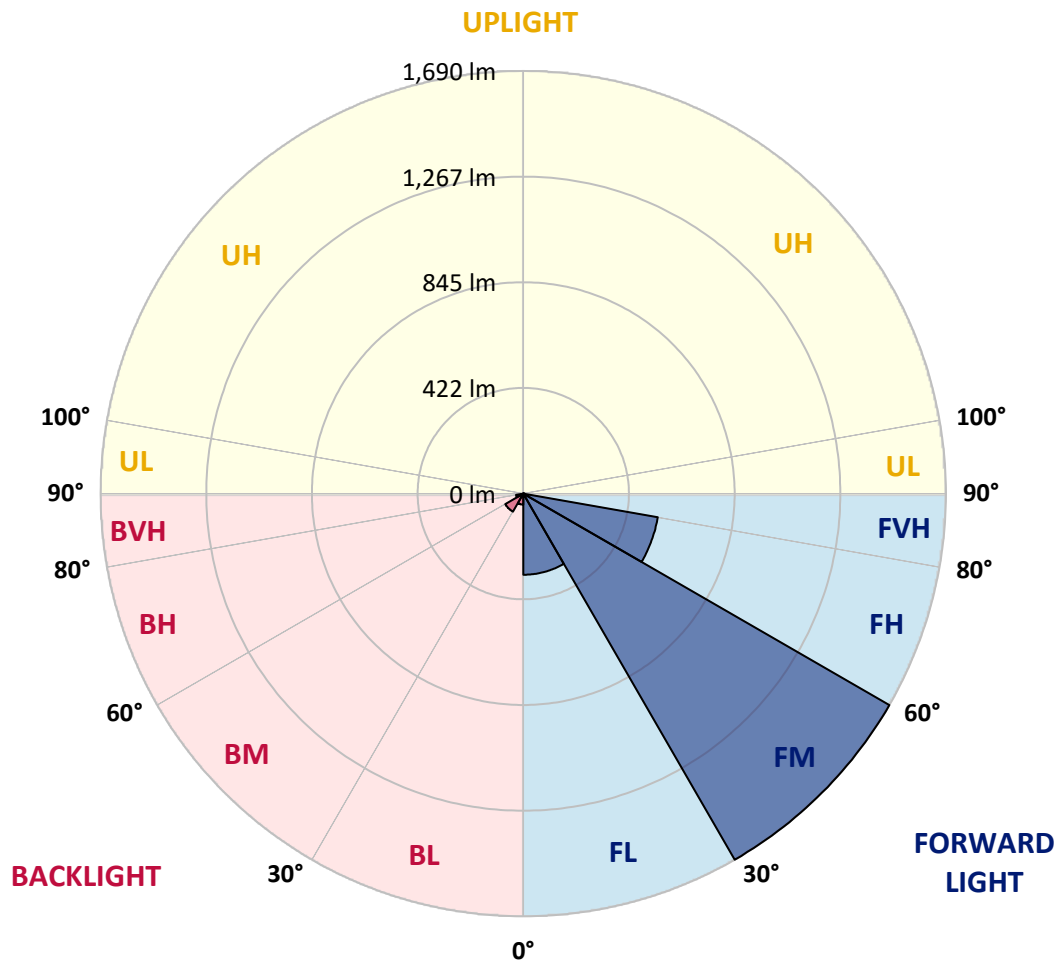
CATALOG NUMBER: GALN-SA1A-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.3	11.9			
FM (30°-60°)	1689.7	62.1			
FH (60°-80°)	545.9	20.0			G0/660
FVH (80°-90°)	6.1	0.2			G0/10
BL (0°-30°)	43.9	1.6	B0/110		
BM (30°-60°)	83.1	3.1	B0/220		
BH (60°-80°)	29.5	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	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-G0

Type II Short





REPORT NUMBER: P450354

CATALOG NUMBER: GALN-SA1A-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
2.5°	333.7	330.7	324.7	322.6	313.8	300.1	288.0	271.9	259.1	257.8	242.3
5°	446.9	440.1	437.3	423.8	402.5	382.6	348.4	322.4	292.5	290.3	259.3
7.5°	555.9	546.5	543.7	530.9	506.1	474.7	430.3	383.2	335.8	331.4	282.0
10°	634.9	636.2	631.1	622.7	602.5	570.6	515.9	451.4	383.9	378.5	307.6
12.5°	691.5	691.3	692.2	692.0	681.3	657.1	599.5	525.3	436.9	426.2	336.9
15°	728.3	728.9	731.7	741.5	742.6	727.6	679.6	596.0	498.4	485.0	368.7
17.5°	765.5	769.5	774.0	783.2	791.5	785.5	751.6	669.7	554.0	544.1	402.7
20°	827.0	832.5	829.8	835.5	839.8	840.4	814.2	737.7	621.5	604.8	441.6
22.5°	925.4	925.2	918.4	908.2	899.8	899.4	875.7	807.7	682.8	666.7	480.7
25°	1049.6	1050.2	1037.0	1008.1	987.0	961.3	934.0	869.0	748.4	728.5	521.9
27.5°	1192.1	1188.6	1168.6	1128.8	1087.0	1043.0	1003.7	940.2	818.0	801.5	569.1
30°	1320.2	1318.8	1295.5	1246.8	1191.9	1147.8	1090.8	1029.5	908.1	887.8	621.9
32.5°	1439.4	1441.2	1408.9	1358.5	1305.5	1254.5	1194.4	1114.9	996.4	967.7	679.4
35°	1532.4	1534.3	1500.8	1458.9	1404.4	1362.1	1304.7	1205.9	1083.6	1059.4	745.6
37.5°	1582.0	1584.5	1565.1	1533.5	1499.5	1478.3	1424.9	1323.0	1189.7	1175.0	823.8
40°	1591.4	1594.3	1585.8	1577.3	1575.5	1590.7	1575.1	1461.0	1336.7	1313.8	940.4
42.5°	1563.2	1567.0	1570.8	1589.6	1627.9	1683.8	1738.1	1648.2	1526.0	1495.2	1082.9
45°	1489.2	1488.8	1503.6	1552.3	1638.3	1757.5	1908.4	1882.7	1784.0	1747.3	1284.2
47.5°	1362.5	1360.6	1392.7	1462.1	1596.0	1771.0	2047.4	2167.3	2113.2	2079.3	1500.6
50°	1169.4	1178.6	1229.2	1326.0	1490.9	1730.0	2090.2	2354.0	2383.3	2347.4	1675.5
52.5°	943.2	942.8	1022.2	1153.6	1335.2	1639.8	2060.3	2387.8	2471.1	2443.7	1761.6
55°	698.1	702.9	785.5	918.0	1133.1	1475.1	1962.8	2353.0	2504.6	2485.2	1818.4
57°	519.3	527.9	594.1	734.3	957.1	1312.1	1832.8	2290.8	2517.7	2507.2	1865.6
57.5°	484.7	485.0	549.5	677.0	905.6	1249.5	1795.6	2264.9	2517.4	2511.5	1873.3
60°	298.4	307.8	352.3	457.6	662.9	975.2	1546.1	2115.8	2497.8	2506.3	1906.2
62.5°	178.6	182.6	211.5	275.8	427.3	711.8	1265.3	1925.0	2446.9	2472.6	1903.9
65°	114.9	115.8	129.0	166.9	267.2	481.1	975.0	1672.9	2315.1	2362.4	1829.5
67.5°	88.7	90.2	95.5	109.6	154.9	299.7	689.6	1403.8	2101.9	2163.0	1649.0
70°	78.8	79.5	81.4	85.9	102.5	169.2	429.0	1096.6	1743.0	1760.3	1290.5
72.5°	64.3	66.4	72.2	73.7	81.2	105.7	238.8	736.0	1171.1	1175.4	721.9
75°	49.8	50.2	58.8	63.2	68.4	72.8	106.6	371.1	562.5	532.4	278.2
77.5°	37.2	38.9	42.9	48.3	55.8	52.1	47.8	139.9	174.7	171.5	80.8
80°	23.9	24.8	29.9	36.3	43.4	34.0	26.9	41.0	38.4	39.5	19.4
82.5°	12.0	12.2	19.2	29.5	27.6	17.1	16.9	16.7	14.3	14.1	9.0
85°	1.3	2.8	12.4	16.9	12.4	5.6	7.9	7.7	7.5	7.7	5.3
87.5°	0.2	0.2	2.1	2.4	1.7	1.9	2.3	2.4	3.0	2.8	2.3
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: P450354
 CATALOG NUMBER: GALN-SA1A-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
2.5°	234.8	227.3	213.4	200.0	190.1	183.7	175.4	172.4	168.1	167.5	165.4
5°	245.0	230.7	206.4	187.3	171.8	160.2	150.0	141.6	134.8	133.3	134.0
7.5°	259.4	238.2	204.4	178.2	156.8	136.9	120.7	110.7	103.6	101.0	101.3
10°	275.8	248.2	204.0	168.6	135.9	111.5	93.8	85.0	80.8	79.3	77.6
12.5°	295.2	259.6	203.0	153.8	113.0	88.9	76.3	71.1	67.1	66.0	66.0
15°	317.0	271.9	198.5	135.4	91.7	73.5	65.0	60.9	59.6	58.5	58.5
17.5°	339.7	283.9	189.1	112.6	76.1	63.0	57.7	55.3	53.4	52.1	52.1
20°	365.7	295.7	174.1	92.5	64.3	56.2	52.1	49.3	47.8	46.6	46.2
22.5°	390.3	305.3	154.9	76.0	56.0	50.6	46.8	43.8	42.3	41.7	41.7
25°	415.9	311.1	131.8	62.8	51.1	45.9	41.7	39.3	38.0	37.6	37.4
27.5°	440.7	314.5	111.5	54.9	46.6	41.5	37.6	35.7	34.4	34.0	34.2
30°	470.8	315.1	91.7	49.3	42.7	37.4	33.8	32.1	31.4	31.0	30.8
32.5°	501.2	314.3	77.1	45.9	38.9	33.8	30.8	29.5	29.0	28.4	28.4
35°	535.4	310.4	65.6	42.5	35.3	30.8	28.2	27.1	26.3	25.8	25.6
37.5°	577.9	308.3	59.0	38.7	32.1	28.0	25.6	24.4	23.9	23.1	22.9
40°	644.9	317.5	57.0	35.3	29.0	25.4	23.1	21.8	21.1	20.3	20.1
42.5°	728.3	333.7	53.6	32.0	26.1	22.9	20.7	19.2	17.9	16.9	16.5
45°	836.4	354.9	48.3	28.4	23.7	20.3	18.2	16.4	14.7	13.9	13.7
47.5°	949.8	375.4	43.6	25.6	21.1	18.0	15.8	13.7	12.2	11.7	11.5
50°	1019.4	379.6	40.6	22.4	18.4	15.6	13.3	11.5	10.5	10.0	10.0
52.5°	1051.1	373.0	36.5	19.6	16.0	13.7	11.5	10.0	9.4	9.0	8.8
55°	1073.3	362.8	31.0	16.9	13.7	11.7	10.2	9.0	8.3	7.9	7.7
57°	1086.3	349.1	26.9	14.9	11.8	10.2	9.0	8.1	7.3	6.6	6.6
57.5°	1086.8	343.9	25.8	14.7	11.3	9.8	8.8	7.9	7.0	6.2	6.0
60°	1070.1	307.8	20.7	12.4	9.0	8.3	7.3	6.2	4.9	4.1	3.9
62.5°	1016.3	261.9	17.1	10.5	7.3	6.4	5.3	4.7	3.4	2.4	2.4
65°	934.9	212.4	14.7	8.5	6.0	4.7	3.6	3.4	2.1	1.1	0.9
67.5°	817.2	165.4	12.4	7.0	5.1	3.4	2.4	2.3	1.1	0.4	0.0
70°	622.7	112.8	10.3	5.6	3.8	2.4	1.7	1.3	0.8	0.2	0.0
72.5°	358.9	62.0	8.6	4.3	2.8	1.9	1.3	0.8	0.8	0.0	0.0
75°	128.2	26.7	6.6	3.2	2.3	1.5	0.9	0.4	0.6	0.2	0.0
77.5°	40.8	14.3	4.3	2.4	1.9	1.1	0.8	0.4	0.4	0.2	0.0
80°	12.0	7.5	2.6	2.1	1.3	0.9	0.6	0.2	0.4	0.2	0.0
82.5°	6.6	3.8	2.1	1.5	1.3	0.8	0.6	0.2	0.2	0.2	0.0
85°	3.4	2.3	1.7	1.5	1.3	0.8	0.6	0.2	0.0	0.2	0.2
87.5°	1.9	1.7	1.7	1.5	1.3	0.9	0.6	0.2	0.0	0.0	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)