

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: P451609

Luminaire Tested: **GALN-SA2C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8553 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

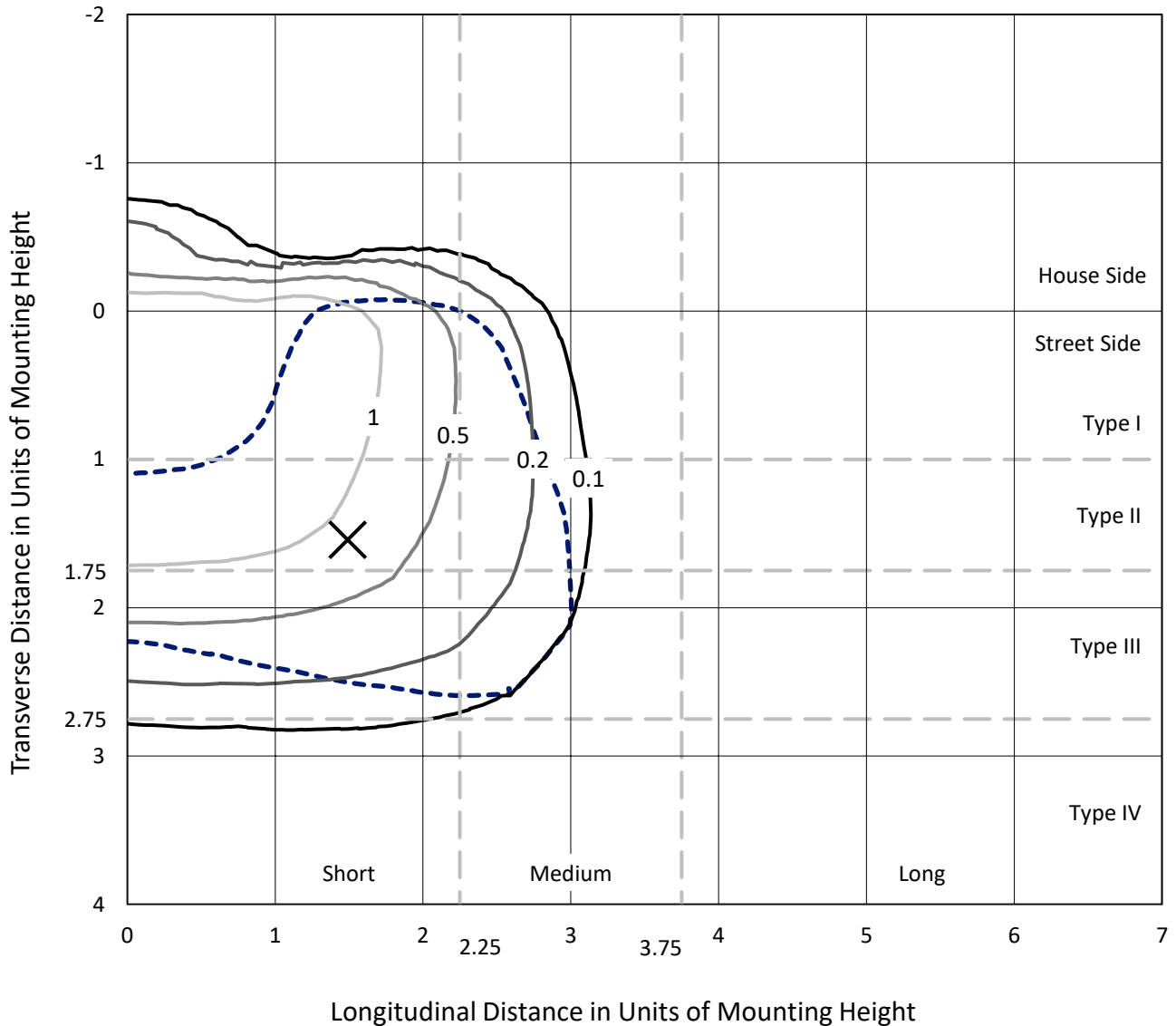
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451609
 CATALOG NUMBER: GALN-SA2C-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

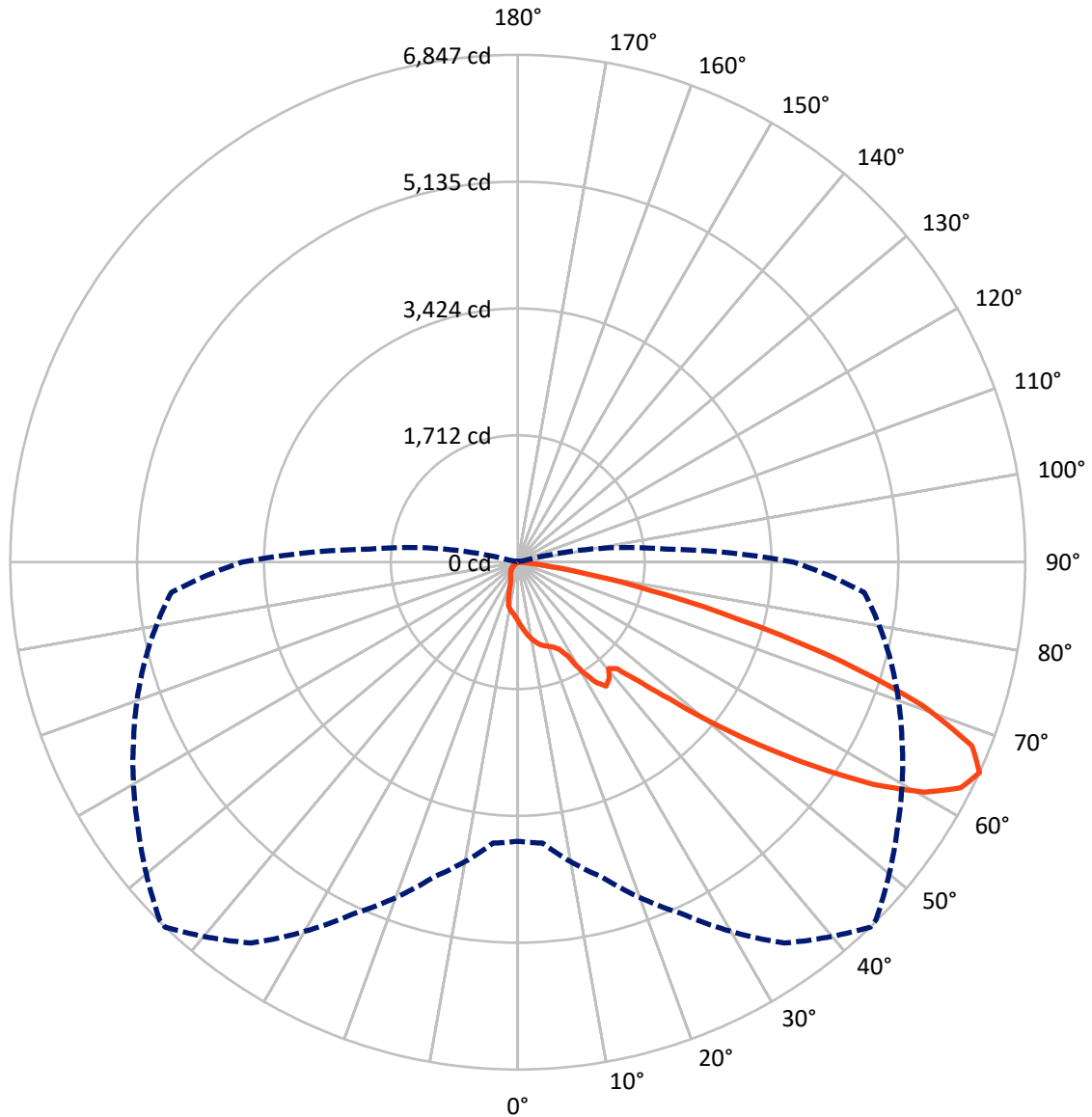
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

REPORT NUMBER: P451609
CATALOG NUMBER: GALN-SA2C-727-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P451609

CATALOG NUMBER: GALN-SA2C-727-U-T4W-HSS

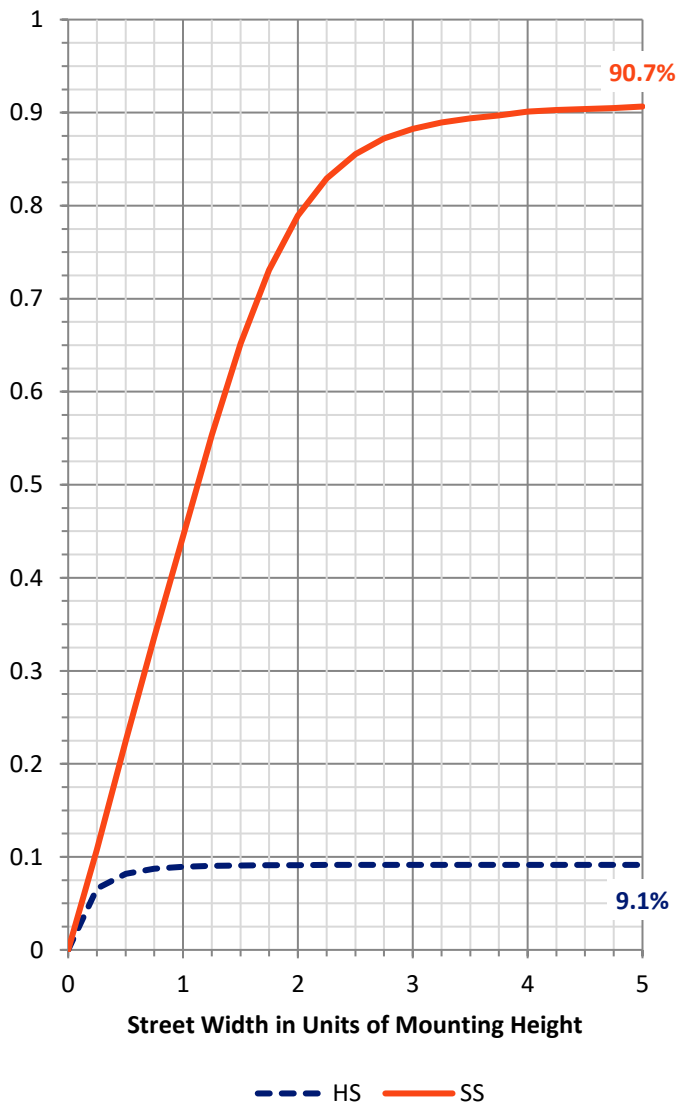
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	788.0	0.0	788.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	7765.0	0.0	7765.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	8553.0	0.0	8553.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	0.9
10°-20°	238.3	2.8
20°-30°	404.0	4.7
30°-40°	671.8	7.9
40°-50°	1173.0	13.7
50°-60°	2291.6	26.8
60°-70°	2658.8	31.1
70°-80°	968.2	11.3
80°-90°	68.2	0.8
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°	8553.0	100.0
0°-180°	8553.0	100.0



REPORT NUMBER: P451609

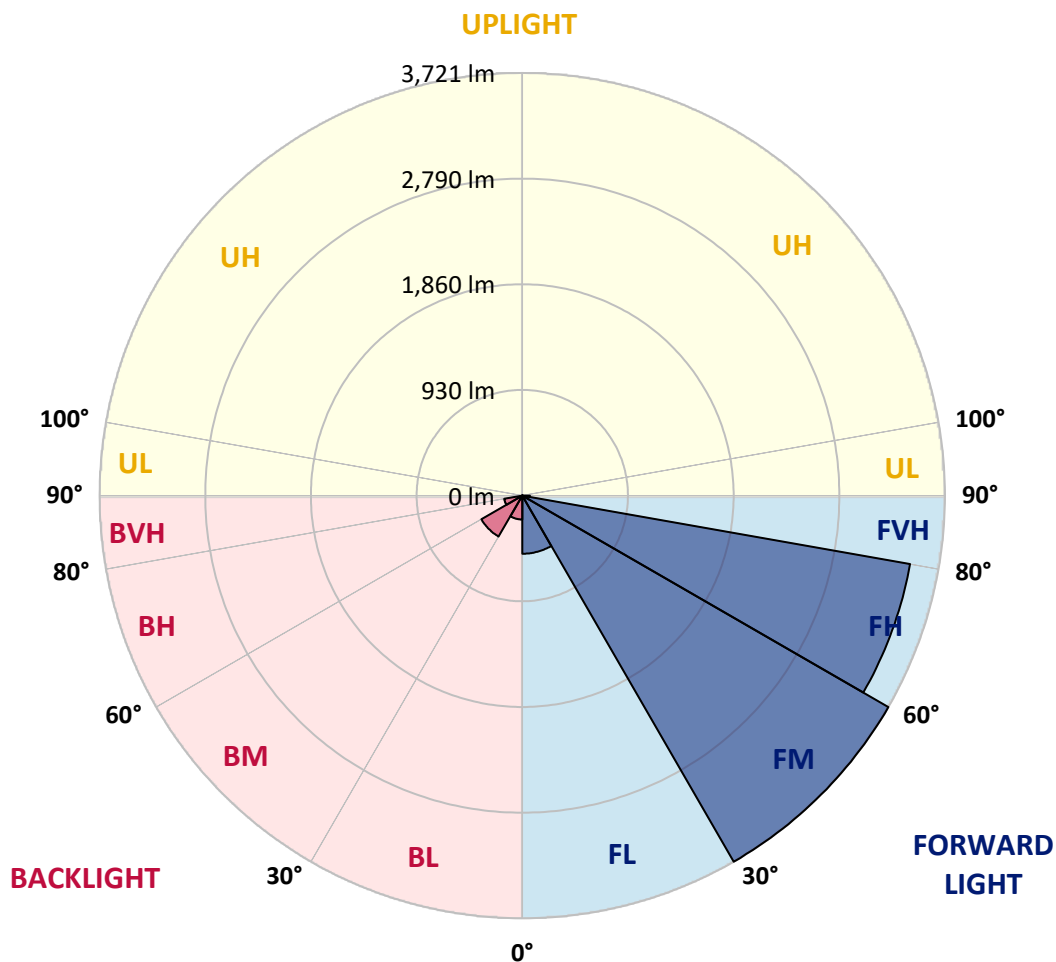
CATALOG NUMBER: GALN-SA2C-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.5	6.0			
FM (30°-60°)	3720.6	43.5			
FH (60°-80°)	3465.6	40.5			G2/5000
FVH (80°-90°)	67.3	0.8			G1/100
BL (0°-30°)	210.0	2.5	B1/500		
BM (30°-60°)	415.8	4.9	B1/1000		
BH (60°-80°)	161.4	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P451609

CATALOG NUMBER: GALN-SA2C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0
2.5°	896.0	892.1	890.1	879.7	871.8	862.0	862.0	849.6	835.2	819.6	805.2
5°	996.0	989.5	981.0	971.8	953.5	927.4	927.4	901.3	871.2	844.4	815.0
7.5°	1092.1	1086.2	1071.8	1054.2	1024.1	996.7	994.7	956.8	920.9	880.3	838.5
10°	1176.4	1171.8	1159.4	1125.4	1094.1	1058.1	1057.5	1015.0	973.1	923.5	871.8
12.5°	1235.2	1235.9	1219.5	1186.9	1146.3	1112.3	1109.7	1067.9	1024.1	970.5	907.1
15°	1277.0	1277.0	1260.1	1223.5	1186.9	1156.8	1154.2	1117.6	1072.5	1014.3	945.7
17.5°	1288.8	1292.7	1274.4	1241.8	1212.3	1186.2	1185.5	1154.8	1118.9	1062.7	984.9
20°	1284.2	1288.2	1273.8	1248.3	1228.0	1213.0	1211.0	1198.6	1165.3	1112.3	1026.7
22.5°	1274.4	1278.4	1267.9	1252.9	1243.1	1247.6	1244.4	1254.8	1237.2	1173.1	1076.4
25°	1276.4	1280.3	1272.5	1264.0	1272.5	1300.6	1309.1	1354.2	1338.5	1250.2	1130.0
27.5°	1337.8	1345.7	1334.6	1338.5	1368.5	1433.9	1450.2	1528.0	1458.7	1348.3	1213.7
30°	1474.4	1469.2	1448.3	1467.2	1571.8	1710.4	1705.8	1693.4	1584.9	1461.3	1313.0
32.5°	1598.6	1594.0	1592.7	1674.4	1863.9	1931.3	1928.0	1807.7	1697.9	1590.8	1411.0
35°	1648.9	1631.3	1627.4	1825.4	2142.4	2053.5	2033.2	1854.8	1835.2	1731.9	1511.0
37.5°	1800.5	1788.1	1727.3	1850.2	2031.2	2001.8	1986.2	1935.8	1981.6	1856.7	1624.1
40°	2112.9	2078.3	2023.4	1903.2	1873.7	1886.2	1901.8	2039.7	2154.8	2027.3	1775.1
42.5°	2501.2	2493.3	2391.4	2167.2	1946.9	1963.9	1984.2	2256.7	2403.8	2284.2	2021.4
45°	2967.1	2978.2	2831.2	2566.5	2277.6	2292.0	2321.4	2577.0	2741.0	2683.5	2409.0
47.5°	3390.6	3382.1	3332.5	3057.3	2790.7	2758.7	2806.4	2988.1	3207.6	3216.8	2890.0
50°	3816.8	3861.9	3788.0	3680.2	3482.1	3414.8	3397.2	3486.1	3820.7	3776.9	3467.8
52.5°	4429.1	4452.7	4314.1	4286.7	4331.8	4113.5	4095.8	4117.4	4416.7	4266.4	3900.4
55°	4814.1	4800.4	4748.7	4963.1	5141.5	4869.0	4846.8	4759.8	4911.5	4612.1	4316.7
57.5°	4935.6	4955.2	5075.5	5463.1	5885.3	5653.9	5613.4	5366.3	5268.3	4934.3	4699.7
60°	4881.4	4917.3	5176.8	5753.2	6338.8	6304.2	6269.5	5854.5	5524.5	5203.6	4968.3
62.5°	4495.1	4545.5	4960.5	5701.6	6492.4	6708.7	6665.6	6159.1	5695.1	5334.3	5015.4
65°	3767.1	3804.3	4400.4	5233.0	6274.1	6847.3	6831.6	6254.5	5721.9	5214.7	4693.2
67.5°	2685.5	2812.2	3364.5	4410.2	5628.4	6610.7	6637.5	6140.1	5470.3	4697.7	3886.7
70°	1688.1	1774.4	2170.5	3157.3	4512.1	5799.6	5887.9	5616.6	4747.4	3661.9	2601.8
72.5°	805.2	869.2	1151.6	1998.6	3184.8	4563.1	4633.0	4610.8	3671.0	2307.0	1342.4
75°	358.8	383.0	549.6	1020.2	2056.1	3067.1	3248.2	3278.2	2294.0	1128.7	522.2
77.5°	183.0	183.6	257.5	494.1	1026.7	1830.0	1865.9	1971.1	1243.7	497.4	181.7
80°	97.4	103.9	136.6	233.3	532.6	901.3	896.7	985.6	551.6	243.8	60.8
82.5°	43.8	48.4	77.1	122.2	260.1	341.8	368.6	403.2	236.6	155.5	26.8
85°	13.1	15.7	37.9	61.4	94.1	98.7	110.5	142.5	134.0	110.5	13.7
87.5°	2.0	2.0	15.7	17.0	13.7	17.6	18.3	20.3	43.1	40.5	7.2
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: P451609

CATALOG NUMBER: GALN-SA2C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0
2.5°	797.3	792.8	776.4	762.7	750.9	743.7	735.2	730.0	727.4	725.4	726.1
5°	800.6	789.5	761.4	739.2	722.2	703.9	691.5	684.3	681.0	675.8	675.8
7.5°	818.9	801.3	762.0	728.1	698.6	673.8	650.3	641.8	635.9	634.6	633.3
10°	845.0	822.8	769.2	722.2	680.4	646.4	613.0	583.6	560.7	547.0	545.1
12.5°	877.7	845.7	780.3	718.3	664.7	604.5	516.3	456.8	417.0	404.6	406.5
15°	907.8	873.1	791.5	715.0	635.9	501.3	401.3	333.3	313.1	311.1	311.7
17.5°	943.7	902.6	804.5	710.4	556.8	383.0	298.0	279.7	283.6	290.2	289.5
20°	981.0	933.9	820.2	683.0	444.4	288.2	263.4	265.3	271.2	277.1	278.4
22.5°	1020.9	969.9	838.5	617.0	339.2	251.0	249.7	252.3	258.2	264.7	266.0
25°	1075.8	1015.0	852.2	530.7	256.8	232.0	234.6	239.2	244.4	251.6	252.9
27.5°	1146.3	1075.8	859.4	418.3	222.2	215.0	215.7	222.2	228.7	235.3	235.3
30°	1237.8	1148.3	845.0	316.3	205.2	198.7	196.1	200.0	208.5	215.0	215.7
32.5°	1319.5	1216.9	807.1	241.8	192.8	183.6	177.1	177.8	181.0	185.0	185.6
35°	1401.2	1283.6	742.4	203.3	179.7	169.3	159.5	154.2	151.6	149.7	151.6
37.5°	1505.8	1366.6	656.2	185.0	168.6	155.5	141.8	130.7	121.6	115.7	117.0
40°	1640.4	1481.6	554.2	173.2	158.2	142.5	124.2	109.8	94.1	88.9	86.3
42.5°	1862.6	1656.1	447.0	163.4	147.7	128.8	105.9	86.3	71.9	66.7	68.0
45°	2213.6	1876.4	344.4	152.9	137.2	113.7	88.9	68.0	56.2	53.6	54.9
47.5°	2678.9	2161.3	265.3	141.2	124.2	97.4	69.9	53.6	46.4	45.7	45.1
50°	3116.8	2426.6	221.6	128.1	108.5	81.0	57.5	45.1	40.5	39.9	39.9
52.5°	3512.9	2616.8	180.4	113.1	91.5	66.7	48.4	39.9	35.9	34.0	34.0
55°	3865.1	2741.0	146.4	94.8	71.9	52.9	41.8	35.9	31.4	28.8	28.1
57.5°	4131.1	2756.0	109.8	75.8	53.6	41.2	35.9	31.4	26.1	22.9	21.6
60°	4244.8	2626.0	81.0	57.5	39.9	32.7	28.8	25.5	19.6	16.3	15.7
62.5°	4130.5	2373.1	60.1	43.8	30.7	24.2	20.3	19.0	13.7	9.8	9.1
65°	3720.7	2007.7	47.7	33.3	22.9	17.6	13.1	12.4	8.5	4.6	3.9
67.5°	2980.9	1572.5	37.9	24.8	16.3	11.8	8.5	7.8	4.6	1.3	1.3
70°	1938.4	1005.2	30.7	18.3	10.5	7.8	5.2	3.9	2.6	0.7	0.0
72.5°	958.8	469.9	24.8	14.4	7.2	3.9	2.0	1.3	2.0	0.0	0.0
75°	371.9	167.3	18.3	9.8	3.9	2.0	1.3	0.0	0.7	0.0	0.0
77.5°	123.5	55.6	11.1	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0
80°	45.7	21.6	5.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	18.3	8.5	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	5.2	2.6	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.9	2.6	2.0	1.3	0.7	0.0	0.0	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)