

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: P528163

Luminaire Tested: **GALN-SA3B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9396 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

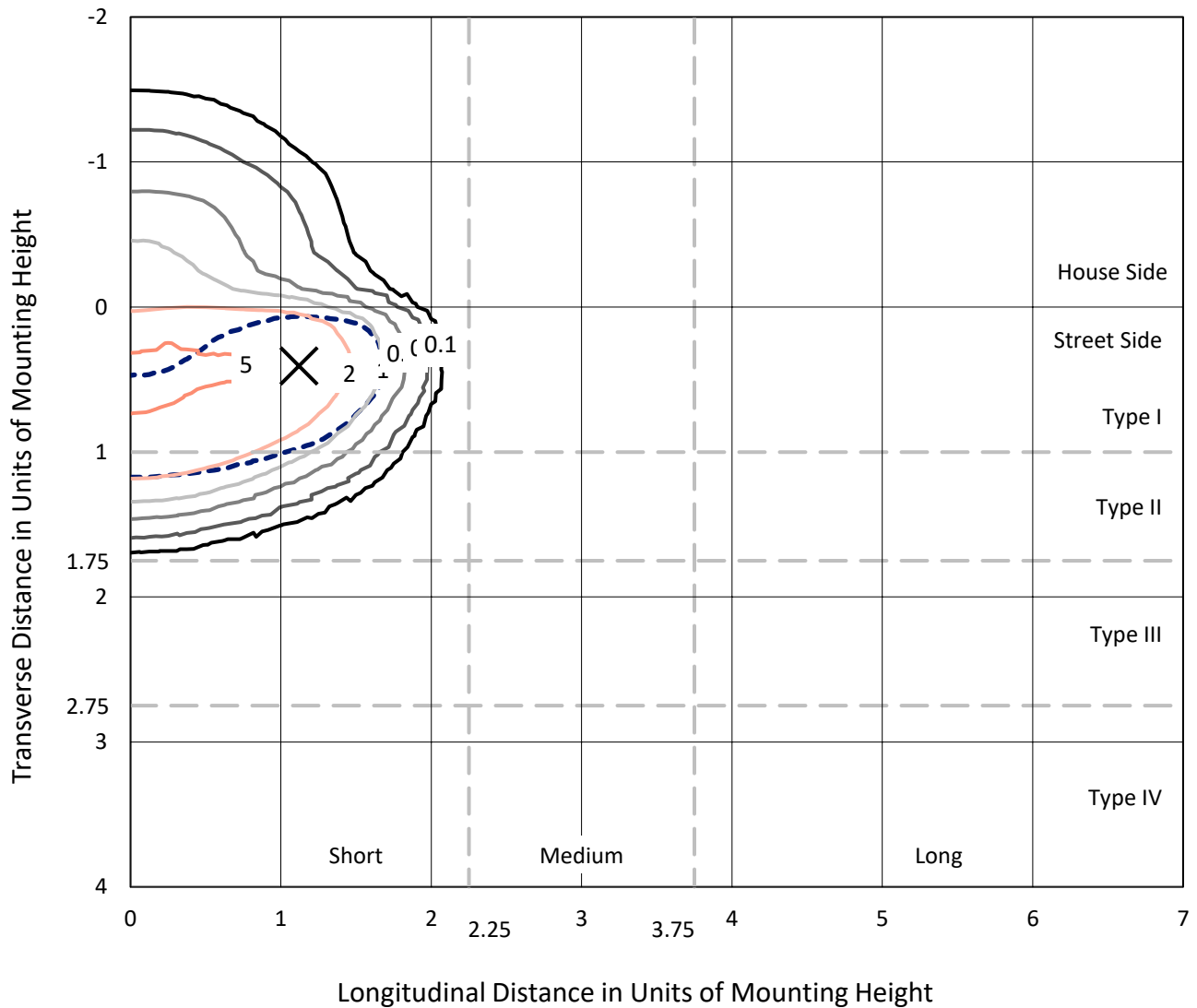
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528163
 CATALOG NUMBER: GALN-SA3B-727-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

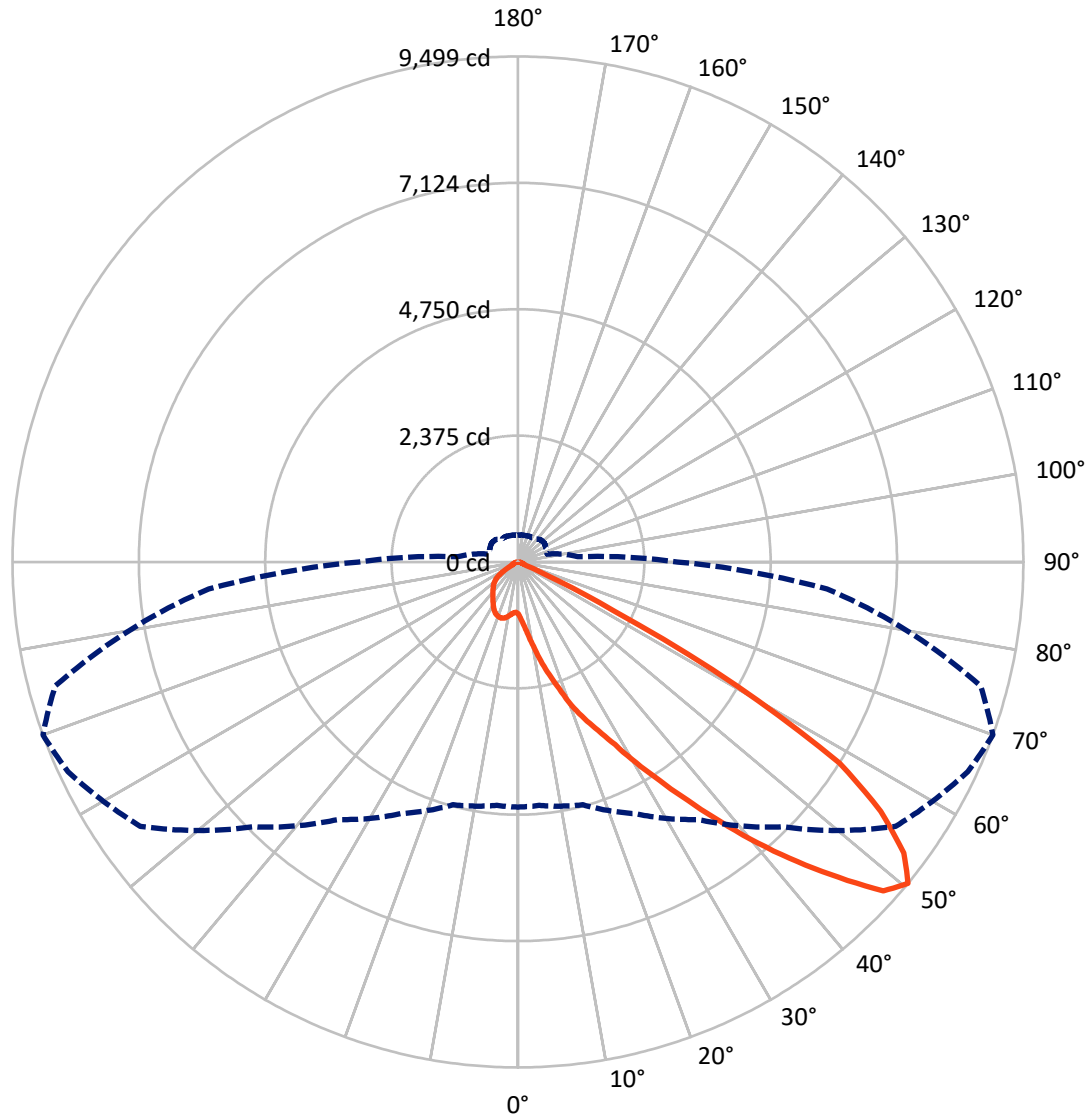
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type I - Short - N/A

REPORT NUMBER: P528163
CATALOG NUMBER: GALN-SA3B-727-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P528163

CATALOG NUMBER: GALN-SA3B-727-U-T2R-GRSBK

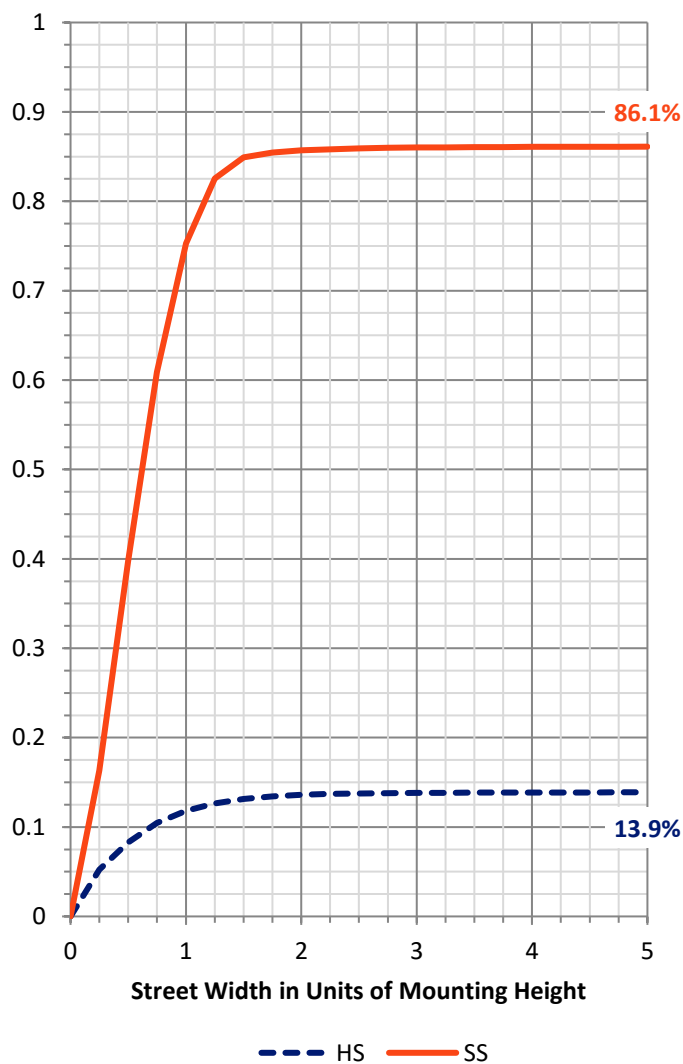
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1312.2	0.0	1312.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8083.8	0.0	8083.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	9396.0	0.0	9396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.3
10°-20°	547.4	5.8
20°-30°	1148.4	12.2
30°-40°	1979.5	21.1
40°-50°	2893.1	30.8
50°-60°	2253.2	24.0
60°-70°	381.8	4.1
70°-80°	52.4	0.6
80°-90°	13.6	0.1
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°	9396.0	100.0
0°-180°	9396.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528163

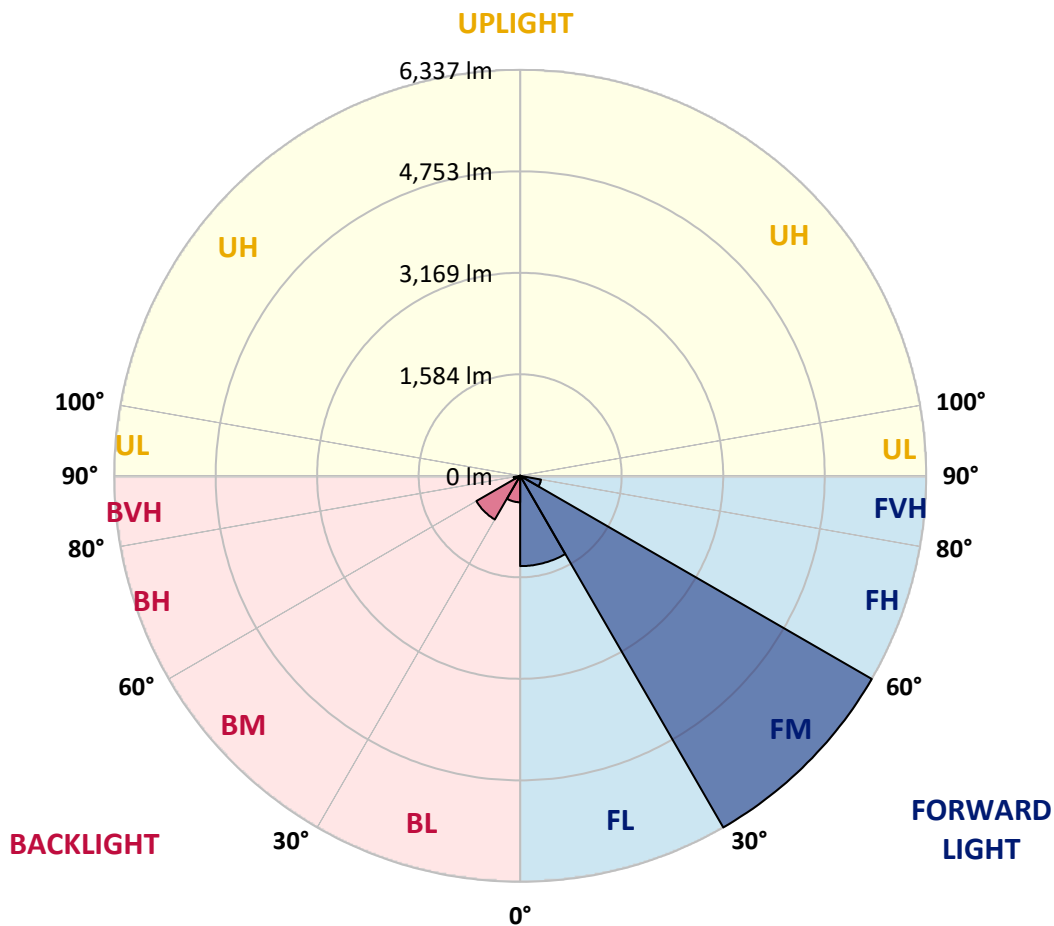
CATALOG NUMBER: GALN-SA3B-727-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1409.5	15.0			
FM (30°-60°)	6337.4	67.4			
FH (60°-80°)	330.6	3.5			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	412.9	4.4	B1/500		
BM (30°-60°)	788.3	8.4	B1/1000		
BH (60°-80°)	103.6	1.1	B0/110		G0/110
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short





REPORT NUMBER: P528163

CATALOG NUMBER: GALN-SA3B-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2
2.5°	1274.5	1265.2	1245.1	1208.1	1192.6	1155.5	1133.9	1092.2	1065.9	1036.6	1004.1
5°	1795.1	1747.2	1717.8	1676.1	1554.1	1478.4	1353.3	1246.7	1197.2	1143.2	1069.0
7.5°	2332.7	2301.8	2261.6	2172.0	2088.6	1931.0	1716.3	1481.5	1381.1	1288.4	1141.6
10°	2777.6	2691.1	2686.5	2620.0	2528.9	2340.4	2082.4	1790.5	1611.3	1475.3	1245.1
12.5°	3088.1	3009.3	3044.9	3037.1	2952.2	2779.1	2481.0	2094.8	1907.9	1696.2	1351.7
15°	3370.8	3338.4	3327.6	3318.3	3284.3	3156.1	2888.8	2465.5	2195.2	1940.3	1472.2
17.5°	3647.3	3563.9	3604.1	3611.8	3608.7	3492.9	3242.6	2817.8	2499.5	2198.3	1598.9
20°	3893.0	3900.7	3846.6	3835.8	3826.5	3821.9	3577.8	3166.9	2873.4	2468.6	1764.2
22.5°	4208.1	4154.0	4201.9	4171.0	4110.8	4073.7	3886.8	3475.9	3197.8	2794.6	1932.6
25°	4580.4	4623.7	4510.9	4498.5	4432.1	4303.9	4135.5	3821.9	3509.8	3097.4	2114.9
27.5°	5039.2	4963.5	4934.2	4866.2	4745.7	4691.6	4493.9	4178.8	3886.8	3415.6	2291.0
30°	5433.2	5413.1	5266.3	5186.0	5080.9	5079.4	4802.9	4662.3	4378.0	3914.6	2533.5
32.5°	5754.5	5666.4	5612.4	5556.7	5471.8	5494.9	5261.7	5187.5	4901.7	4378.0	2819.3
35°	5969.2	5905.9	5873.4	5788.5	5763.7	5867.3	5769.9	5739.0	5504.2	5030.0	3154.5
37.5°	6037.2	6057.3	6051.1	5944.5	5997.0	6276.6	6401.8	6321.4	6197.8	5717.4	3517.6
40°	6097.4	6111.3	6080.4	6205.6	6355.4	6673.6	7126.3	6993.4	6947.1	6414.1	4022.7
42.5°	6131.4	6120.6	6120.6	6336.9	6564.0	7203.5	7826.1	7738.0	7702.5	7155.6	4606.7
45°	5984.7	5879.6	5992.4	6285.9	6743.2	7464.6	8385.3	8507.4	8456.4	8037.7	5289.5
47.5°	5436.2	5501.1	5564.5	5956.9	6525.3	7384.3	8728.3	9143.8	9238.1	8779.2	5737.5
50°	4606.7	4592.8	4724.1	5218.4	5909.0	7038.2	8661.8	9327.7	9499.1	9001.7	5831.7
52.5°	3350.7	3452.7	3594.8	4086.1	4904.8	6142.2	7804.5	8853.4	9082.0	8728.3	5769.9
55°	1951.1	1838.3	2158.1	2573.7	3346.1	4632.9	6598.0	7847.7	8271.0	8230.8	5457.9
57.5°	781.7	757.0	866.6	1167.9	1745.7	2871.8	4798.2	6448.1	7126.3	7538.8	4796.7
60°	343.0	335.2	393.9	475.8	713.7	1323.9	2624.7	4010.4	4717.9	5267.9	3301.3
62.5°	247.2	244.1	273.4	302.8	376.9	576.2	1103.0	1615.9	2014.5	2433.1	1478.4
65°	199.3	207.0	227.1	242.5	278.1	319.8	389.3	449.5	551.5	571.6	326.0
67.5°	162.2	168.4	186.9	203.9	210.1	173.0	179.2	157.6	157.6	140.6	112.8
70°	119.0	120.5	142.1	162.2	129.8	69.5	122.0	122.0	109.7	105.0	95.8
72.5°	88.1	89.6	106.6	100.4	51.0	43.3	89.6	98.9	89.6	85.0	77.2
75°	64.9	66.4	55.6	23.2	21.6	27.8	52.5	68.0	64.9	63.3	58.7
77.5°	12.4	9.3	7.7	10.8	15.4	23.2	34.0	41.7	43.3	46.3	43.3
80°	1.5	1.5	4.6	9.3	17.0	24.7	35.5	40.2	41.7	43.3	40.2
82.5°	0.0	1.5	4.6	9.3	17.0	23.2	30.9	35.5	38.6	40.2	38.6
85°	0.0	1.5	3.1	7.7	13.9	17.0	15.4	10.8	9.3	10.8	7.7
87.5°	0.0	0.0	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P528163

CATALOG NUMBER: GALN-SA3B-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2
2.5°	985.6	979.4	957.8	934.6	914.5	923.8	914.5	906.8	909.9	906.8	903.7
5°	1039.7	1011.9	965.5	945.4	928.4	926.9	922.3	920.7	922.3	922.3	908.4
7.5°	1090.6	1045.8	996.4	974.8	954.7	956.2	945.4	945.4	943.9	936.2	933.1
10°	1167.9	1107.6	1044.3	1005.7	981.0	976.3	965.5	954.7	954.7	954.7	939.3
12.5°	1252.9	1177.2	1090.6	1045.8	1016.5	993.3	976.3	973.2	956.2	953.2	945.4
15°	1327.0	1231.2	1121.5	1059.8	1022.7	991.8	965.5	948.5	940.8	936.2	930.0
17.5°	1399.6	1277.6	1138.5	1059.8	1019.6	984.1	956.2	940.8	922.3	925.4	913.0
20°	1496.9	1327.0	1143.2	1039.7	990.2	956.2	919.2	911.4	900.6	891.4	894.5
22.5°	1591.2	1362.5	1129.3	1015.0	943.9	903.7	885.2	875.9	871.3	863.6	852.7
25°	1676.1	1401.2	1107.6	970.2	894.5	865.1	848.1	846.6	835.8	835.8	815.7
27.5°	1762.6	1415.1	1070.6	917.6	851.2	834.2	826.5	823.4	818.8	807.9	794.0
30°	1861.5	1419.7	1016.5	863.6	812.6	794.0	804.9	812.6	792.5	772.4	778.6
32.5°	1943.4	1408.9	951.6	812.6	784.8	775.5	797.1	804.9	781.7	760.1	749.2
35°	2042.3	1382.6	888.3	772.4	757.0	775.5	794.0	794.0	747.7	721.4	715.3
37.5°	2192.1	1353.3	829.6	738.4	727.6	766.2	791.0	774.0	701.4	668.9	661.2
40°	2352.8	1334.7	772.4	704.4	712.2	750.8	764.7	712.2	638.0	617.9	611.8
42.5°	2586.0	1297.7	721.4	675.1	698.3	729.2	729.2	634.9	607.1	596.3	594.8
45°	2876.5	1271.4	676.6	650.4	678.2	685.9	661.2	594.8	574.7	571.6	573.1
47.5°	3018.6	1220.4	630.3	621.0	641.1	642.6	577.8	562.3	545.3	540.7	537.6
50°	2997.0	1129.3	570.0	582.4	610.2	594.8	526.8	529.9	514.4	512.9	505.2
52.5°	2845.6	985.6	509.8	539.1	570.0	525.2	485.1	482.0	482.0	461.9	454.2
55°	2522.7	794.0	437.2	474.3	511.3	441.8	431.0	427.9	420.2	401.7	397.0
57.5°	1997.5	582.4	329.0	369.2	434.1	375.4	373.8	359.9	339.9	326.0	326.0
60°	1188.0	335.2	207.0	225.5	287.3	304.3	338.3	332.1	298.2	276.5	270.3
62.5°	542.2	173.0	131.3	134.4	154.5	197.7	265.7	307.4	259.5	222.5	219.4
65°	182.3	128.2	108.1	103.5	106.6	119.0	159.1	217.8	207.0	171.5	165.3
67.5°	111.2	114.3	102.0	94.2	94.2	92.7	91.1	98.9	122.0	119.0	120.5
70°	95.8	105.0	94.2	85.0	81.9	77.2	64.9	54.1	46.3	54.1	57.2
72.5°	77.2	83.4	80.3	72.6	64.9	58.7	46.3	35.5	26.3	23.2	23.2
75°	57.2	61.8	64.9	55.6	49.4	41.7	34.0	23.2	13.9	9.3	9.3
77.5°	41.7	46.3	47.9	43.3	37.1	29.4	21.6	15.4	7.7	3.1	3.1
80°	35.5	41.7	46.3	43.3	38.6	27.8	20.1	10.8	6.2	1.5	1.5
82.5°	34.0	41.7	46.3	41.7	37.1	26.3	20.1	12.4	4.6	1.5	1.5
85°	7.7	10.8	13.9	17.0	20.1	20.1	15.4	9.3	4.6	1.5	1.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	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)