

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: P528086

Luminaire Tested: **GALN-SA3A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8819 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

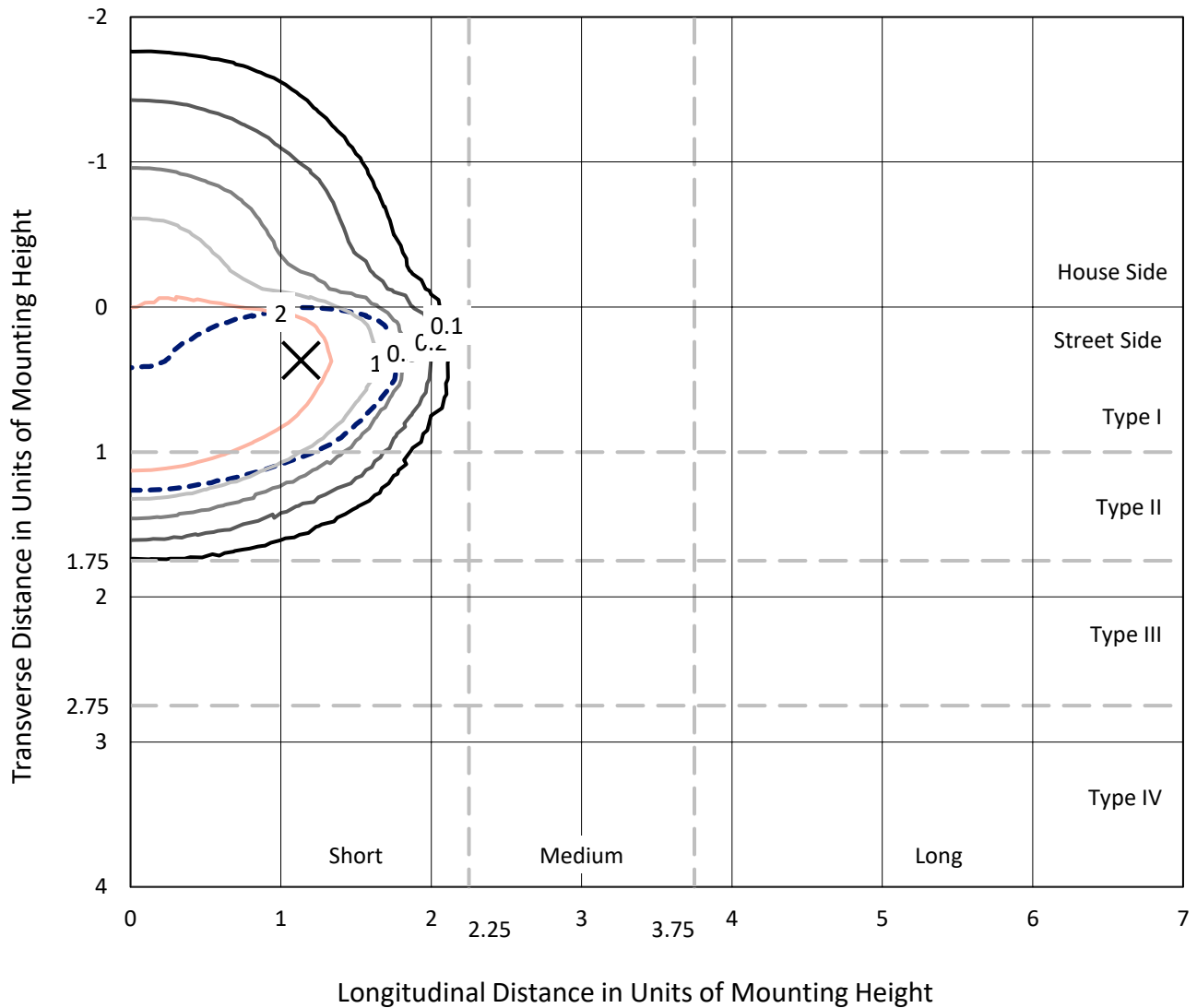
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528086
 CATALOG NUMBER: GALN-SA3A-827-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

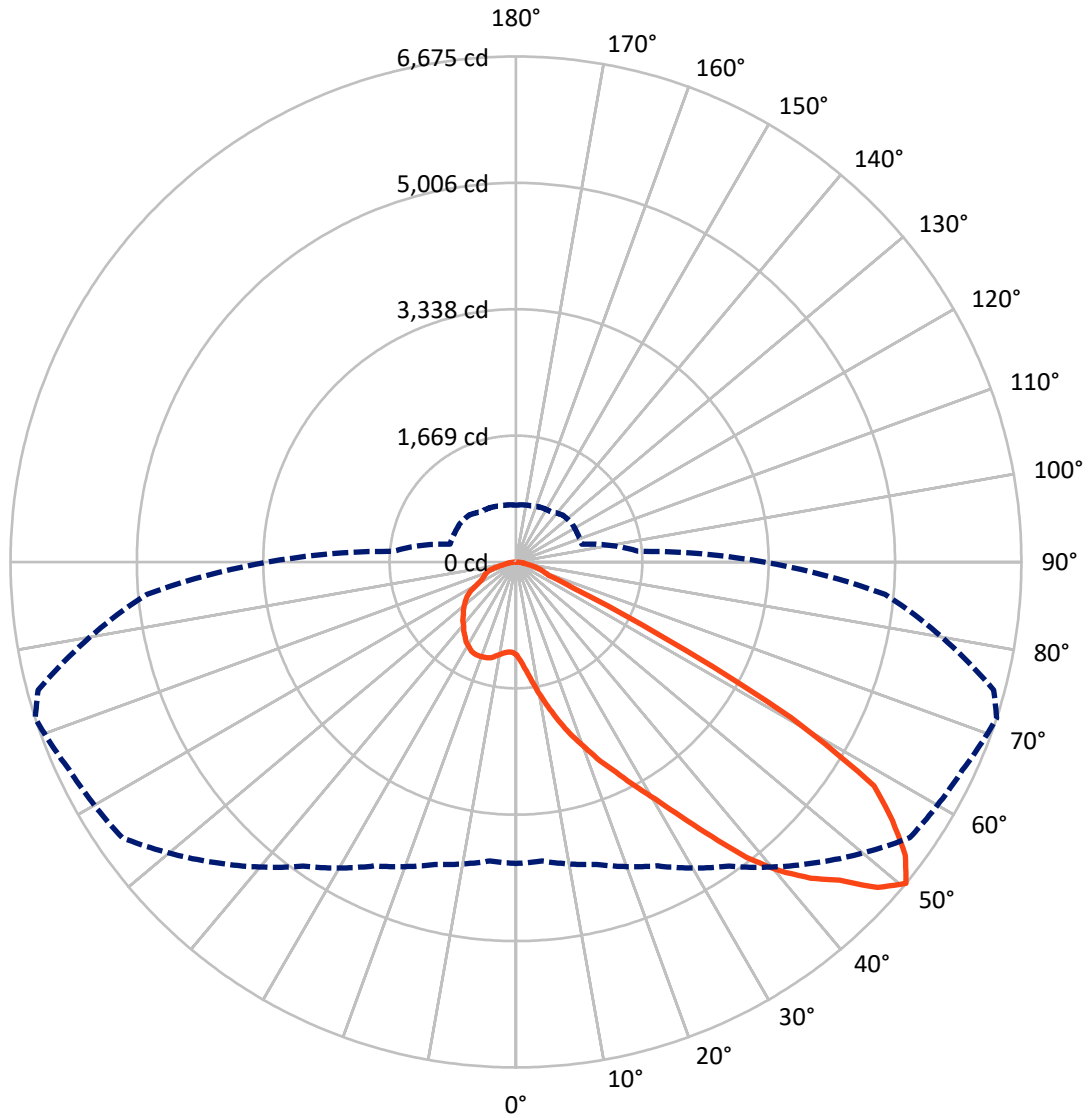
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P528086
CATALOG NUMBER: GALN-SA3A-827-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P528086
 CATALOG NUMBER: GALN-SA3A-827-U-T2R-GRSWH

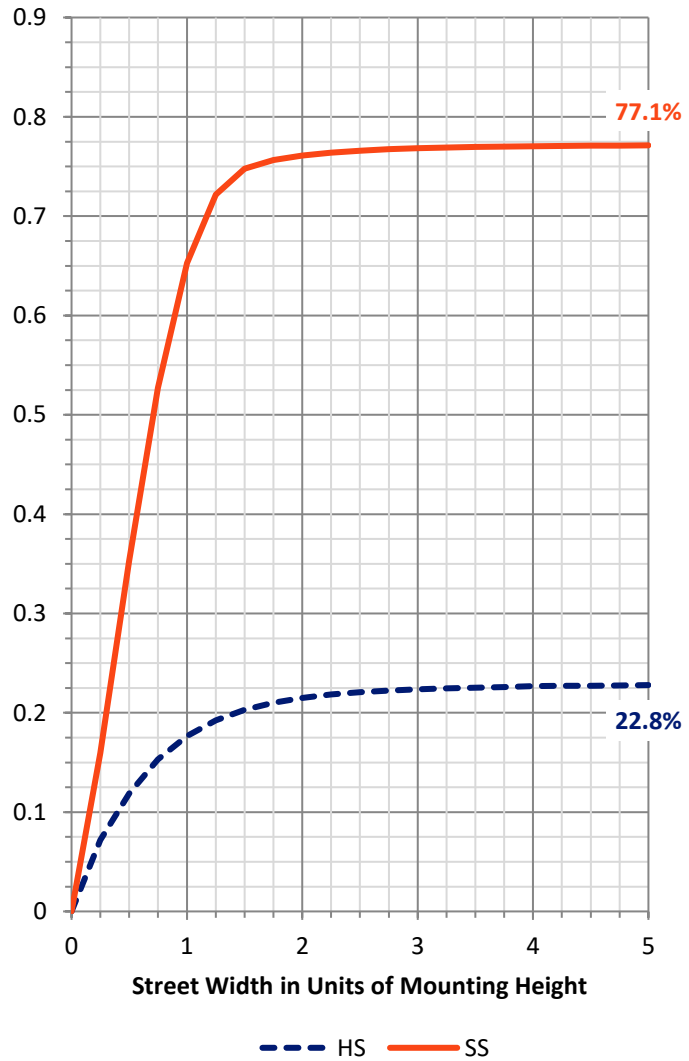
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2020.5	0.0	2020.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6798.5	0.0	6798.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	8819.0	0.0	8819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	1.6
10°-20°	539.8	6.1
20°-30°	1046.7	11.9
30°-40°	1734.0	19.7
40°-50°	2426.3	27.5
50°-60°	2046.9	23.2
60°-70°	623.9	7.1
70°-80°	218.9	2.5
80°-90°	38.0	0.4
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°	8819.0	100.0
0°-180°	8819.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528086

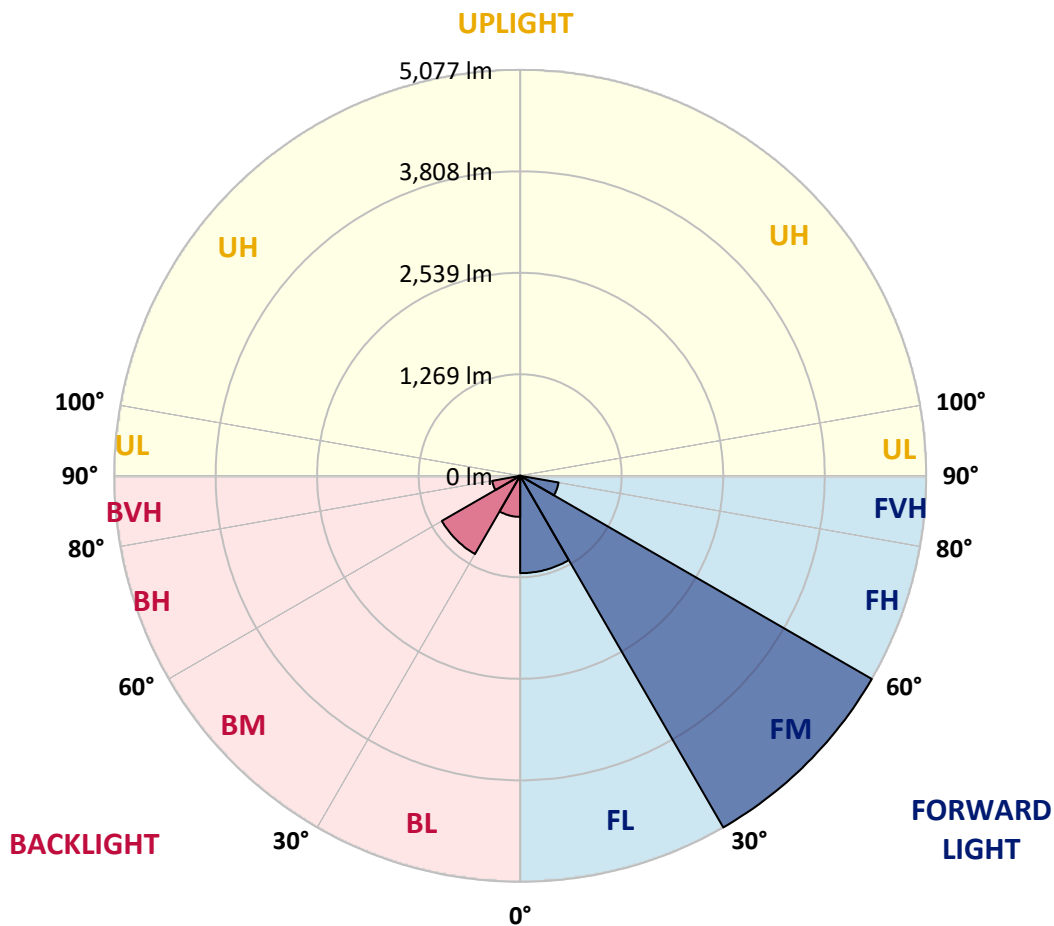
CATALOG NUMBER: GALN-SA3A-827-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.3	13.8			
FM (30°-60°)	5077.3	57.6			
FH (60°-80°)	486.8	5.5			G0/660
FVH (80°-90°)	17.0	0.2			G1/100
BL (0°-30°)	513.6	5.8	B2/1000		
BM (30°-60°)	1129.9	12.8	B2/2500		
BH (60°-80°)	356.0	4.0	B1/500		G1/500
BVH (80°-90°)	21.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P528086

CATALOG NUMBER: GALN-SA3A-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7
2.5°	1579.1	1569.2	1539.8	1530.0	1495.0	1431.7	1409.9	1345.5	1318.3	1293.2	1263.7
5°	1997.0	1951.2	1947.9	1892.3	1811.5	1764.6	1624.9	1531.1	1444.8	1401.2	1320.4
7.5°	2263.3	2264.4	2264.4	2218.6	2154.2	2035.2	1909.7	1740.6	1610.7	1546.3	1408.8
10°	2516.5	2494.6	2482.6	2478.3	2434.6	2319.0	2184.7	1975.2	1797.3	1722.0	1475.4
12.5°	2695.4	2676.9	2704.2	2690.0	2658.3	2583.0	2456.5	2217.5	1994.8	1893.4	1582.3
15°	2780.6	2793.7	2815.5	2854.8	2840.6	2812.2	2672.5	2466.3	2207.6	2093.1	1677.3
17.5°	2911.5	2875.5	2901.7	2950.8	2990.1	2977.0	2897.3	2646.3	2418.3	2277.5	1805.0
20°	3003.2	2982.4	2995.5	3052.3	3081.7	3156.0	3114.5	2882.0	2620.1	2471.7	1955.6
22.5°	3265.1	3234.5	3192.0	3200.7	3211.6	3264.0	3273.8	3140.7	2854.8	2697.6	2098.5
25°	3588.1	3559.7	3509.5	3458.2	3426.6	3416.8	3450.6	3343.7	3079.6	2917.0	2252.4
27.5°	3943.9	3895.8	3864.2	3758.3	3673.2	3660.1	3643.8	3585.9	3345.8	3170.1	2425.9
30°	4289.8	4251.6	4209.0	4039.9	3951.5	3937.3	3856.6	3872.9	3635.0	3439.7	2622.3
32.5°	4551.7	4555.0	4457.8	4330.2	4247.2	4171.9	4142.5	4189.4	4006.1	3848.9	2841.7
35°	4763.4	4773.2	4680.5	4564.8	4475.3	4527.7	4514.6	4536.4	4449.1	4257.0	3097.0
37.5°	4969.6	4920.5	4821.2	4765.6	4718.7	4804.9	4916.2	4934.7	4951.1	4725.2	3393.9
40°	5003.5	5007.8	4950.0	4989.3	4930.4	5060.2	5318.9	5294.8	5361.4	5163.9	3715.8
42.5°	4955.5	4965.3	4988.2	5043.9	5185.7	5341.8	5725.9	5627.7	5708.4	5532.7	4029.0
45°	4876.9	4836.5	4864.9	5076.6	5322.1	5669.2	6098.0	6021.6	5995.4	5848.1	4402.2
47.5°	4501.5	4543.0	4631.4	4892.2	5261.0	5725.9	6362.1	6344.7	6423.2	6319.6	4741.6
50°	3981.0	3964.6	4134.8	4428.4	4904.2	5614.6	6347.9	6506.2	6675.3	6531.3	4893.3
52.5°	2981.4	3068.7	3214.9	3579.4	4258.1	5007.8	6038.0	6302.1	6439.6	6409.0	4771.0
55°	1884.6	1910.8	1999.2	2432.4	3043.6	4019.2	5175.9	5788.1	6033.6	6148.2	4658.6
57.5°	915.6	866.5	974.5	1322.6	1758.0	2703.1	3991.9	5041.7	5575.3	5782.6	4414.2
60°	478.0	496.5	539.1	663.5	909.0	1403.4	2488.1	3360.0	4175.2	4493.9	3345.8
62.5°	396.1	402.7	431.1	493.3	604.6	807.5	1270.2	1638.0	2129.1	2416.1	1903.2
65°	336.1	339.4	369.9	411.4	482.3	568.6	653.7	684.2	828.3	850.1	676.6
67.5°	280.5	283.7	316.5	355.8	401.6	424.5	446.3	444.1	460.5	454.0	452.9
70°	216.1	219.3	253.2	294.6	317.6	304.5	372.1	387.4	393.9	399.4	408.1
72.5°	156.1	162.6	188.8	218.3	206.3	236.8	306.6	329.6	338.3	341.6	352.5
75°	113.5	115.7	122.2	113.5	131.0	164.8	216.1	244.4	255.4	258.6	275.0
77.5°	50.2	51.3	52.4	65.5	84.0	102.6	128.8	151.7	167.0	171.3	175.7
80°	26.2	27.3	33.8	44.7	60.0	75.3	93.8	106.9	116.8	117.9	122.2
82.5°	16.4	17.5	24.0	31.6	42.6	55.7	68.8	79.7	87.3	88.4	89.5
85°	7.6	9.8	14.2	19.6	28.4	36.0	37.1	31.6	33.8	34.9	32.7
87.5°	2.2	3.3	4.4	3.3	4.4	4.4	5.5	6.5	6.5	6.5	7.6
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: P528086

CATALOG NUMBER: GALN-SA3A-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7
2.5°	1247.3	1237.5	1199.3	1185.1	1148.0	1154.6	1134.9	1133.8	1129.5	1128.4	1127.3
5°	1277.9	1247.3	1201.5	1166.6	1145.8	1143.7	1129.5	1129.5	1133.8	1137.1	1129.5
7.5°	1328.1	1293.2	1215.7	1182.9	1164.4	1161.1	1151.3	1143.7	1153.5	1150.2	1141.5
10°	1385.9	1324.8	1243.0	1214.6	1184.0	1176.4	1176.4	1179.7	1163.3	1168.8	1160.0
12.5°	1450.3	1368.5	1277.9	1245.1	1209.1	1204.8	1202.6	1178.6	1187.3	1182.9	1161.1
15°	1532.1	1418.7	1322.6	1267.0	1236.4	1216.8	1188.4	1184.0	1178.6	1167.7	1157.8
17.5°	1620.5	1473.2	1343.4	1273.5	1227.7	1213.5	1191.7	1168.8	1152.4	1154.6	1146.9
20°	1695.8	1523.4	1351.0	1280.1	1221.1	1193.9	1160.0	1145.8	1128.4	1127.3	1126.2
22.5°	1785.3	1591.1	1361.9	1262.6	1201.5	1173.1	1150.2	1125.1	1113.1	1097.8	1105.5
25°	1892.3	1617.3	1364.1	1252.8	1187.3	1137.1	1125.1	1097.8	1093.5	1071.6	1076.0
27.5°	1969.7	1631.5	1346.6	1222.2	1154.6	1116.4	1094.5	1074.9	1067.3	1050.9	1046.5
30°	2073.4	1653.3	1309.5	1184.0	1121.8	1079.3	1066.2	1061.8	1040.0	1022.5	1020.3
32.5°	2191.3	1667.5	1285.5	1144.7	1088.0	1055.3	1061.8	1041.1	1013.8	998.5	994.1
35°	2285.1	1672.9	1225.5	1100.0	1065.1	1044.3	1036.7	1032.3	993.1	978.9	968.0
37.5°	2428.1	1660.9	1175.3	1068.4	1040.0	1032.3	1025.8	996.3	951.6	930.9	915.6
40°	2595.0	1657.6	1110.9	1023.6	1016.0	1024.7	1005.1	959.2	897.0	874.1	863.2
42.5°	2755.5	1680.6	1070.5	999.6	989.8	993.1	965.8	897.0	866.5	853.4	835.9
45°	3023.9	1728.6	1004.0	962.5	958.1	956.0	923.2	851.2	833.7	817.4	814.1
47.5°	3266.2	1696.9	961.4	924.3	928.7	916.7	846.8	823.9	804.3	787.9	782.4
50°	3280.4	1621.6	901.4	894.8	895.9	875.2	808.6	793.4	768.3	757.3	749.7
52.5°	3206.2	1498.3	845.7	847.9	851.2	817.4	761.7	750.8	730.1	714.8	710.4
55°	2997.7	1306.3	791.2	799.9	808.6	744.2	726.8	699.5	683.1	661.3	662.4
57.5°	2640.9	1052.0	714.8	729.0	747.5	676.6	663.5	629.7	605.7	588.2	586.0
60°	1770.0	748.6	600.2	605.7	647.1	618.8	617.7	583.8	551.1	535.8	527.1
62.5°	1044.3	571.8	518.4	512.9	511.8	528.2	555.5	543.5	500.9	471.4	480.2
65°	546.7	494.3	482.3	463.8	452.9	448.5	469.2	474.7	446.3	414.7	412.5
67.5°	459.4	459.4	449.6	443.1	427.8	409.2	396.1	378.7	374.3	365.6	354.7
70°	418.0	428.9	425.6	410.3	397.2	376.5	342.7	314.3	287.0	277.2	283.7
72.5°	364.5	375.4	375.4	367.8	350.3	318.7	285.9	253.2	230.3	212.8	210.6
75°	280.5	285.9	299.0	290.3	267.4	247.7	213.9	180.1	158.2	141.9	138.6
77.5°	179.0	187.7	187.7	186.6	170.2	151.7	129.9	105.9	89.5	77.5	74.2
80°	118.9	124.4	128.8	124.4	113.5	99.3	82.9	66.6	54.6	44.7	42.6
82.5°	87.3	93.8	97.1	92.8	81.8	70.9	58.9	46.9	34.9	27.3	25.1
85°	33.8	34.9	39.3	46.9	45.8	44.7	36.0	26.2	19.6	14.2	13.1
87.5°	8.7	7.6	8.7	8.7	7.6	6.5	6.5	6.5	6.5	3.3	4.4
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)