

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: P533219

Luminaire Tested: **GALN-SA8C-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31132 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

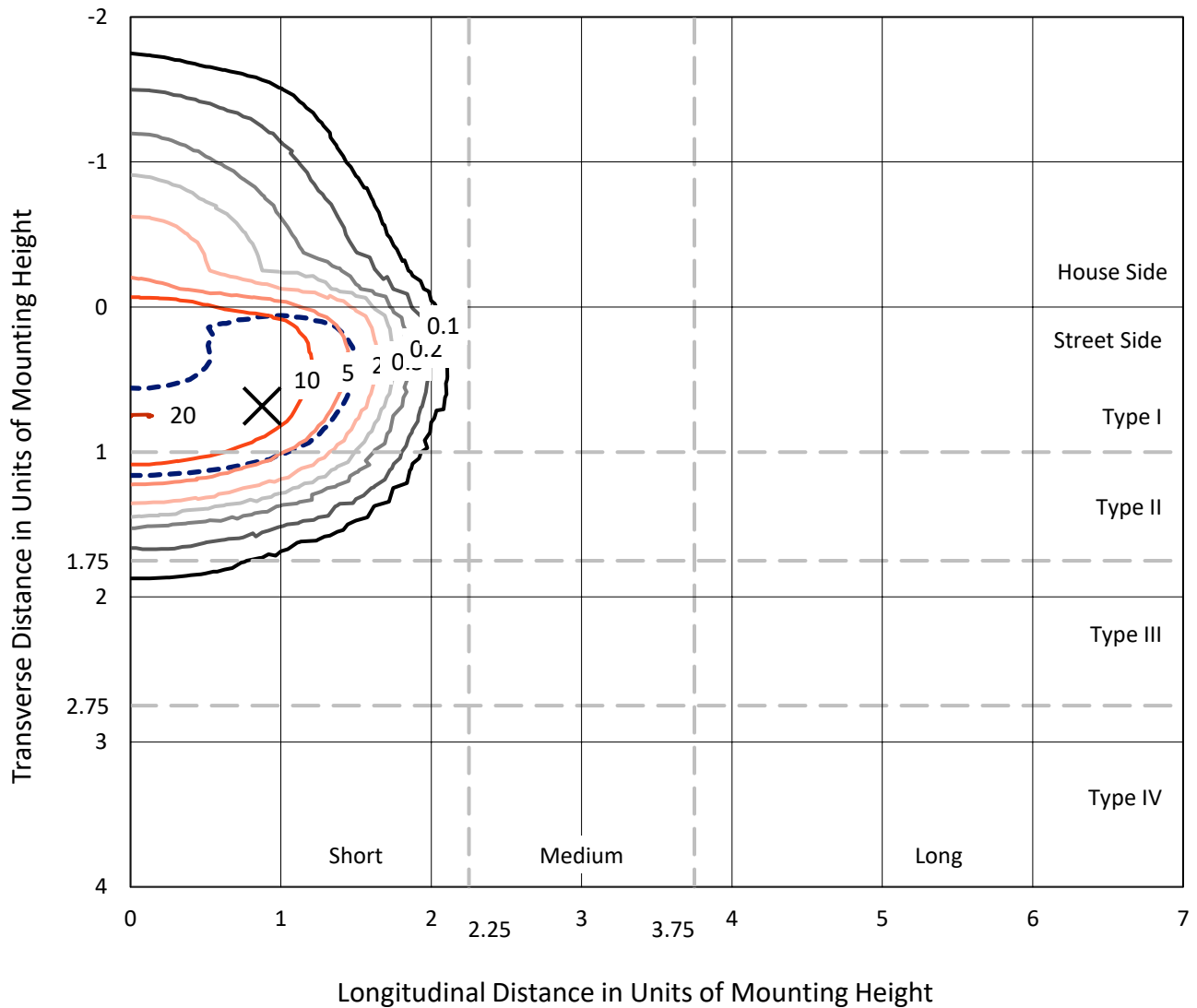
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

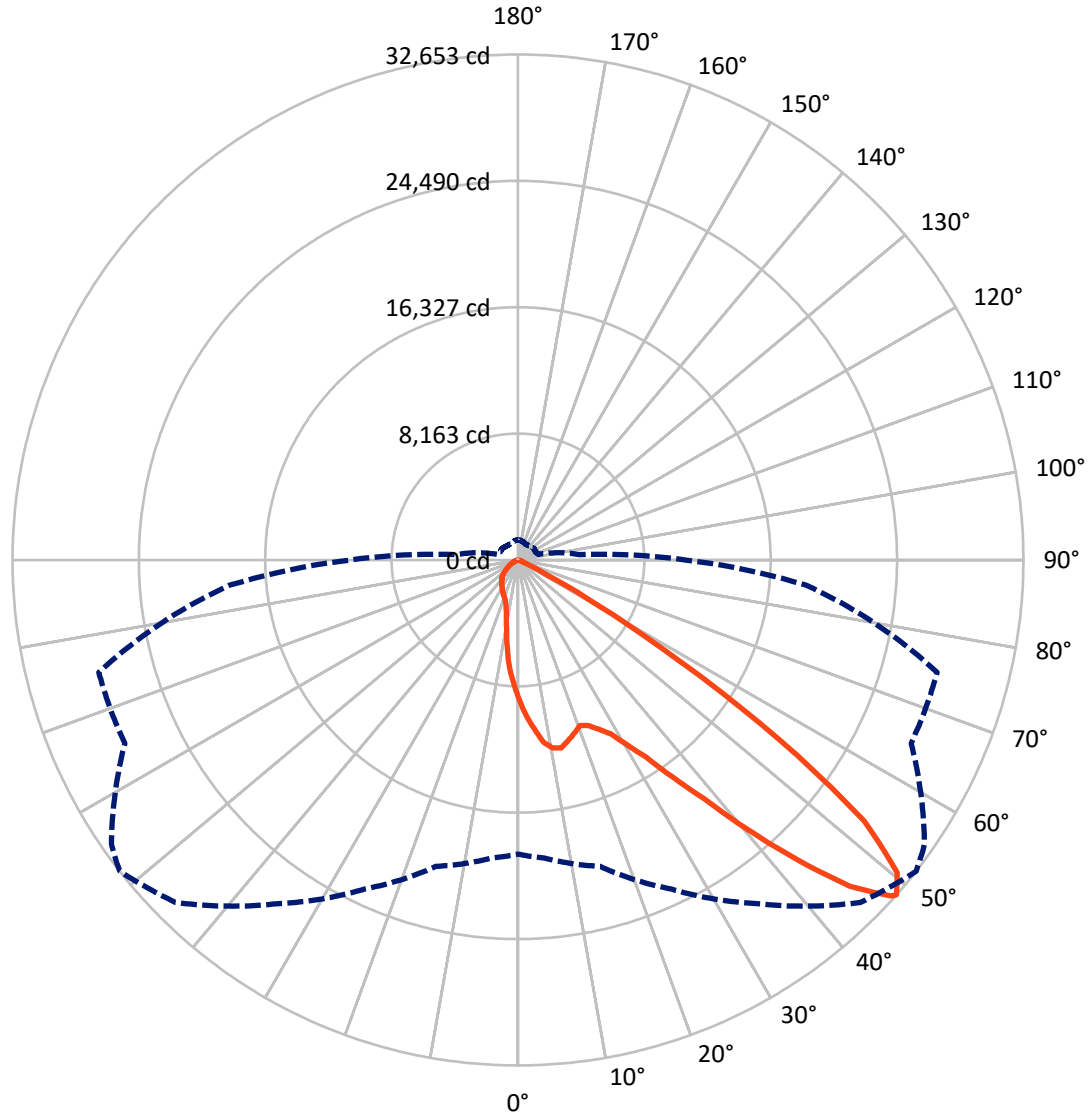
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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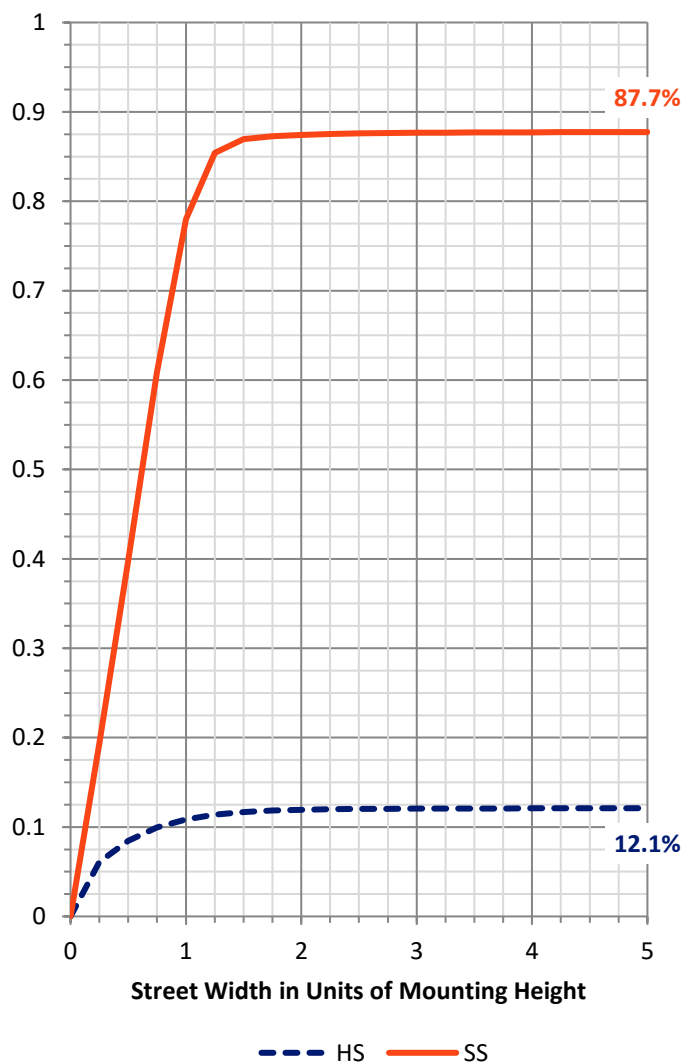
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3790.6	0.0	3790.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	27341.4	0.0	27341.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	31132.0	0.0	31132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.9	2.6
10°-20°	2150.5	6.9
20°-30°	3671.7	11.8
30°-40°	6761.5	21.7
40°-50°	10500.6	33.7
50°-60°	6319.6	20.3
60°-70°	730.9	2.3
70°-80°	141.5	0.5
80°-90°	32.7	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°	31132.0	100.0
0°-180°	31132.0	100.0

Coefficient of Utilization



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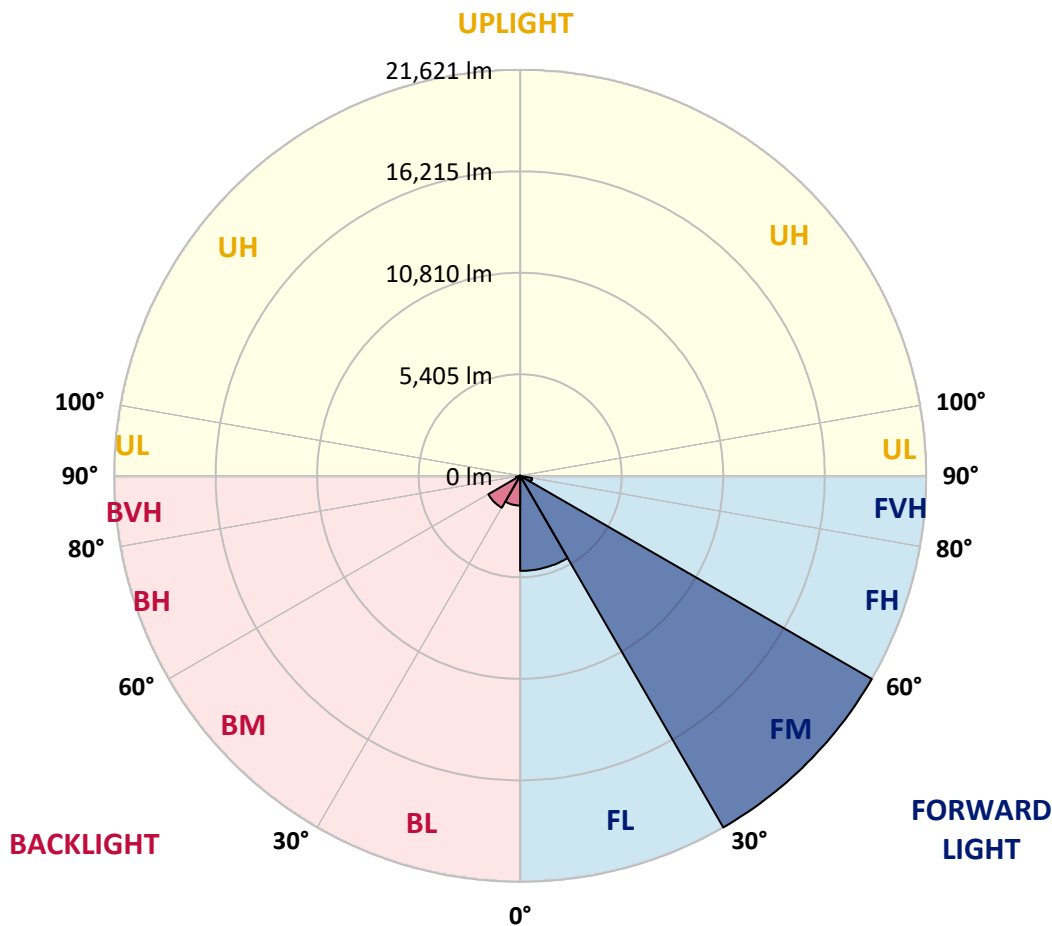
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5061.7	16.3			
FM (30°-60°)	21620.6	69.4			
FH (60°-80°)	643.6	2.1			G0/660
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1583.4	5.1	B3/2500		
BM (30°-60°)	1961.2	6.3	B2/2500		
BH (60°-80°)	228.8	0.7	B1/500		G1/500
BVH (80°-90°)	17.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4
2.5°	10896.5	10646.9	10669.6	10506.2	10410.9	10256.6	10047.8	10007.0	9780.1	9471.5	9158.3
5°	11876.8	11817.8	11894.9	11658.9	11668.0	11413.9	10923.7	10932.8	10410.9	9907.1	9421.5
7.5°	11940.3	11804.2	11881.3	12090.1	12212.6	12167.2	11890.4	11649.9	11155.2	10415.4	9707.5
10°	10692.3	10951.0	11032.6	11377.6	11867.7	12385.1	12353.3	12366.9	11953.9	10987.3	9952.5
12.5°	9943.5	9771.0	10047.8	10256.6	10996.3	11999.3	12457.7	12557.5	12589.3	11540.9	10197.6
15°	9603.1	9603.1	9648.5	9707.5	10243.0	11168.8	12103.7	12394.1	13079.4	12267.1	10583.4
17.5°	9816.4	9807.3	9870.8	9748.3	9948.0	10660.5	11776.9	12108.2	13628.6	12979.6	10887.4
20°	10465.4	10497.1	10456.3	10102.3	10115.9	10651.4	11413.9	11935.8	14000.7	13596.8	11291.3
22.5°	11368.5	11386.6	11155.2	10769.4	10656.0	10919.2	11622.6	12022.0	14300.2	14336.5	11413.9
25°	12412.3	12339.7	12294.3	11749.7	11404.8	11631.7	12094.6	12326.1	14486.3	14971.9	11763.3
27.5°	13860.0	13714.8	13438.0	12952.4	12698.2	12376.0	12707.3	13088.5	15017.3	15861.4	12144.5
30°	15997.6	15870.5	15330.4	14704.1	14037.0	13719.3	13823.7	14032.5	15974.9	16891.6	12648.3
32.5°	19215.2	18947.5	18166.9	16973.3	16065.6	15189.7	15162.5	15384.9	16832.6	18316.6	13247.3
35°	22759.7	22678.0	21529.8	20299.9	18543.6	17191.1	17213.8	17331.8	18475.5	20186.4	14032.5
37.5°	25115.0	25564.3	24833.7	23513.0	22038.1	20104.7	19614.6	19655.4	20731.0	22401.1	15448.4
40°	26934.9	26553.7	26639.9	26331.3	25323.8	24007.7	22923.0	22709.7	23340.6	24851.8	16855.3
42.5°	26140.7	26158.9	26689.8	27420.5	27670.1	27574.8	26467.5	26063.6	25573.4	26857.8	18194.1
45°	23898.8	24366.2	25056.0	26989.4	28686.7	30279.6	30061.8	29390.1	27116.4	28446.2	18965.6
47.5°	20322.6	20304.4	21434.5	23948.7	27720.0	31450.5	32439.9	31967.9	28210.2	28269.2	18806.8
48°	19001.9	19328.7	20495.0	23454.0	27107.4	31278.1	32653.2	32058.7	28024.1	28033.2	18670.6
50°	14046.1	13987.1	15439.4	19070.0	24211.9	29390.1	31754.6	32217.5	28019.6	26839.6	17717.6
52.5°	7420.1	7674.3	8731.7	11990.2	17118.5	24053.1	28010.5	28732.1	27030.2	24888.1	16347.0
55°	3154.1	2850.1	3662.4	5414.2	9630.3	16070.2	20549.5	22156.1	22855.0	22024.4	14300.2
57.5°	1125.5	1229.9	1416.0	2037.7	4048.2	8795.3	12253.5	13501.5	15834.2	16160.9	9743.8
60°	721.6	735.2	794.2	934.9	1520.3	3390.1	5813.6	6807.5	7864.9	8119.0	4547.4
62.5°	558.2	562.8	590.0	612.7	721.6	1316.1	2182.9	2586.8	2686.7	2310.0	1193.6
65°	467.4	472.0	481.1	481.1	512.8	617.2	762.4	839.6	816.9	807.8	676.2
67.5°	358.5	367.6	385.8	385.8	403.9	376.7	422.1	449.3	508.3	617.2	576.4
70°	281.4	285.9	299.5	308.6	308.6	272.3	304.1	331.3	372.1	458.4	453.8
72.5°	217.8	226.9	236.0	236.0	222.4	186.1	217.8	240.5	267.8	317.7	308.6
75°	167.9	167.9	172.5	140.7	108.9	95.3	131.6	158.8	199.7	208.8	172.5
77.5°	45.4	49.9	45.4	40.8	45.4	68.1	86.2	99.8	127.1	127.1	113.5
80°	0.0	4.5	13.6	27.2	45.4	63.5	77.2	86.2	99.8	108.9	104.4
82.5°	0.0	4.5	13.6	27.2	40.8	49.9	68.1	72.6	81.7	95.3	95.3
85°	0.0	4.5	9.1	18.2	27.2	31.8	31.8	27.2	27.2	22.7	18.2
87.5°	0.0	0.0	4.5	9.1	9.1	13.6	13.6	13.6	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4	8990.4
2.5°	9035.8	8895.1	8681.8	8346.0	8023.7	7815.0	7615.3	7392.9	7270.4	7261.3	7193.2
5°	9144.7	8827.0	8318.7	7742.4	7125.2	6594.2	6058.7	5709.2	5396.1	5223.6	5191.8
7.5°	9203.7	8790.7	7969.3	7002.6	5949.7	5082.9	4483.9	4043.6	3871.2	3744.1	3739.6
10°	9326.2	8727.2	7447.4	6022.3	4719.8	3844.0	3431.0	3231.3	3136.0	3099.7	3045.2
12.5°	9417.0	8609.2	6911.9	5014.8	3730.5	3185.9	3004.4	2959.0	2963.5	2981.7	2959.0
15°	9544.1	8504.8	6190.3	4116.3	3131.4	2868.2	2868.2	2877.3	2940.8	2949.9	2945.4
17.5°	9535.0	8300.6	5446.0	3390.1	2768.4	2732.1	2745.7	2831.9	2872.8	2886.4	2854.6
20°	9643.9	8110.0	4679.0	2895.4	2564.1	2618.6	2709.4	2732.1	2782.0	2791.1	2754.8
22.5°	9612.2	7633.4	3966.5	2505.2	2409.8	2514.2	2605.0	2632.2	2618.6	2591.4	2586.8
25°	9553.2	7225.0	3313.0	2246.5	2296.4	2409.8	2496.1	2446.2	2418.9	2423.5	2428.0
27.5°	9448.8	6707.6	2772.9	2064.9	2142.1	2310.0	2305.5	2287.3	2314.5	2291.8	2314.5
30°	9430.6	6190.3	2328.2	1901.6	2028.6	2151.2	2160.2	2192.0	2223.8	2182.9	2223.8
32.5°	9457.9	5623.0	2010.5	1801.7	1960.6	1965.1	2064.9	2096.7	2074.0	1983.2	1992.3
35°	9666.6	5187.3	1779.0	1747.3	1851.6	1856.2	1951.5	1910.6	1810.8	1756.3	1788.1
37.5°	10106.8	4824.2	1670.1	1697.3	1706.4	1765.4	1769.9	1688.3	1697.3	1692.8	1710.9
40°	10669.6	4547.4	1592.9	1651.9	1642.9	1683.7	1520.3	1565.7	1606.6	1620.2	1629.3
42.5°	11055.3	4347.7	1543.0	1579.3	1561.2	1488.6	1397.8	1443.2	1475.0	1524.9	1534.0
45°	11227.8	4188.9	1484.0	1452.3	1452.3	1320.7	1284.3	1293.4	1366.0	1420.5	1411.4
47.5°	10946.4	4034.6	1379.6	1284.3	1316.1	1207.2	1166.3	1166.3	1243.5	1311.6	1298.0
48°	10837.5	3971.0	1384.2	1248.0	1270.7	1189.0	1148.2	1139.1	1225.3	1288.9	1288.9
50°	10297.4	3735.0	1266.2	1148.2	1102.8	1093.7	1066.5	1075.6	1130.0	1189.0	1189.0
52.5°	9244.6	3226.7	1071.0	984.8	903.1	957.6	971.2	953.0	980.3	1034.7	1030.2
55°	7715.1	2477.9	857.7	816.9	753.4	812.4	839.6	816.9	789.7	830.5	830.5
57.5°	4942.2	1334.3	685.3	694.4	630.8	689.8	712.5	658.1	608.1	639.9	635.4
60°	2228.3	798.7	562.8	549.1	508.3	576.4	612.7	549.1	481.1	503.8	526.4
62.5°	835.1	567.3	426.6	417.5	408.4	472.0	490.1	440.2	372.1	385.8	390.3
65°	612.7	499.2	340.4	308.6	326.8	372.1	363.1	313.1	267.8	267.8	276.8
67.5°	521.9	435.7	276.8	240.5	240.5	245.1	226.9	199.7	186.1	195.1	204.2
70°	408.4	344.9	217.8	186.1	167.9	149.8	131.6	127.1	113.5	127.1	122.5
72.5°	263.2	231.5	167.9	140.7	127.1	104.4	86.2	81.7	68.1	63.5	63.5
75°	140.7	140.7	131.6	113.5	99.8	81.7	68.1	54.5	36.3	27.2	27.2
77.5°	99.8	108.9	118.0	108.9	90.8	68.1	54.5	36.3	18.2	9.1	9.1
80°	95.3	108.9	118.0	104.4	90.8	68.1	49.9	27.2	13.6	4.5	4.5
82.5°	86.2	99.8	108.9	95.3	81.7	59.0	45.4	27.2	13.6	4.5	4.5
85°	18.2	22.7	27.2	27.2	31.8	40.8	31.8	22.7	9.1	4.5	4.5
87.5°	13.6	13.6	13.6	13.6	13.6	13.6	9.1	9.1	4.5	4.5	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

(END OF REPORT)