

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: P531815

Luminaire Tested: **GALN-SA7A-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531815
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-SA7A-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 17468 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

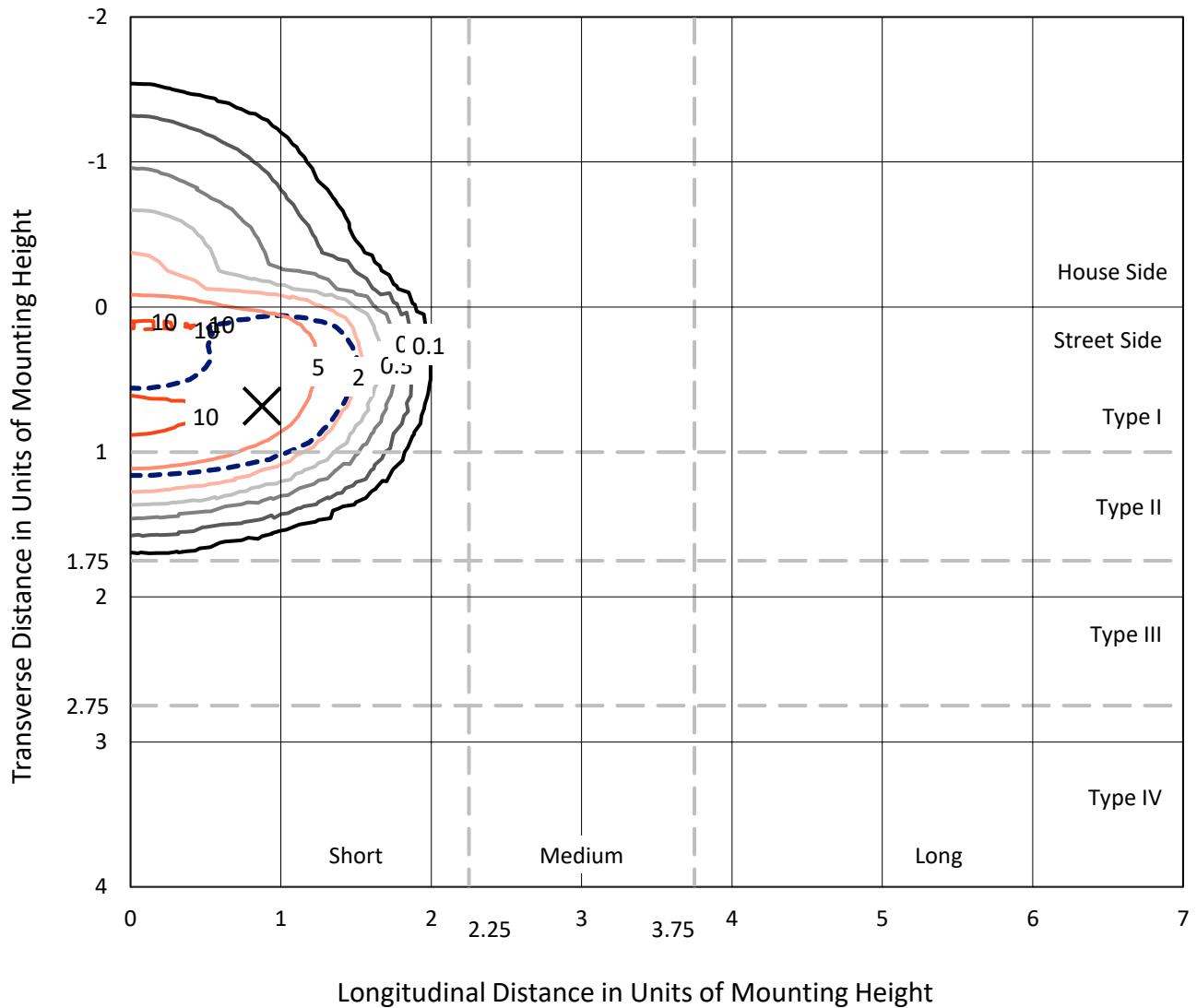
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

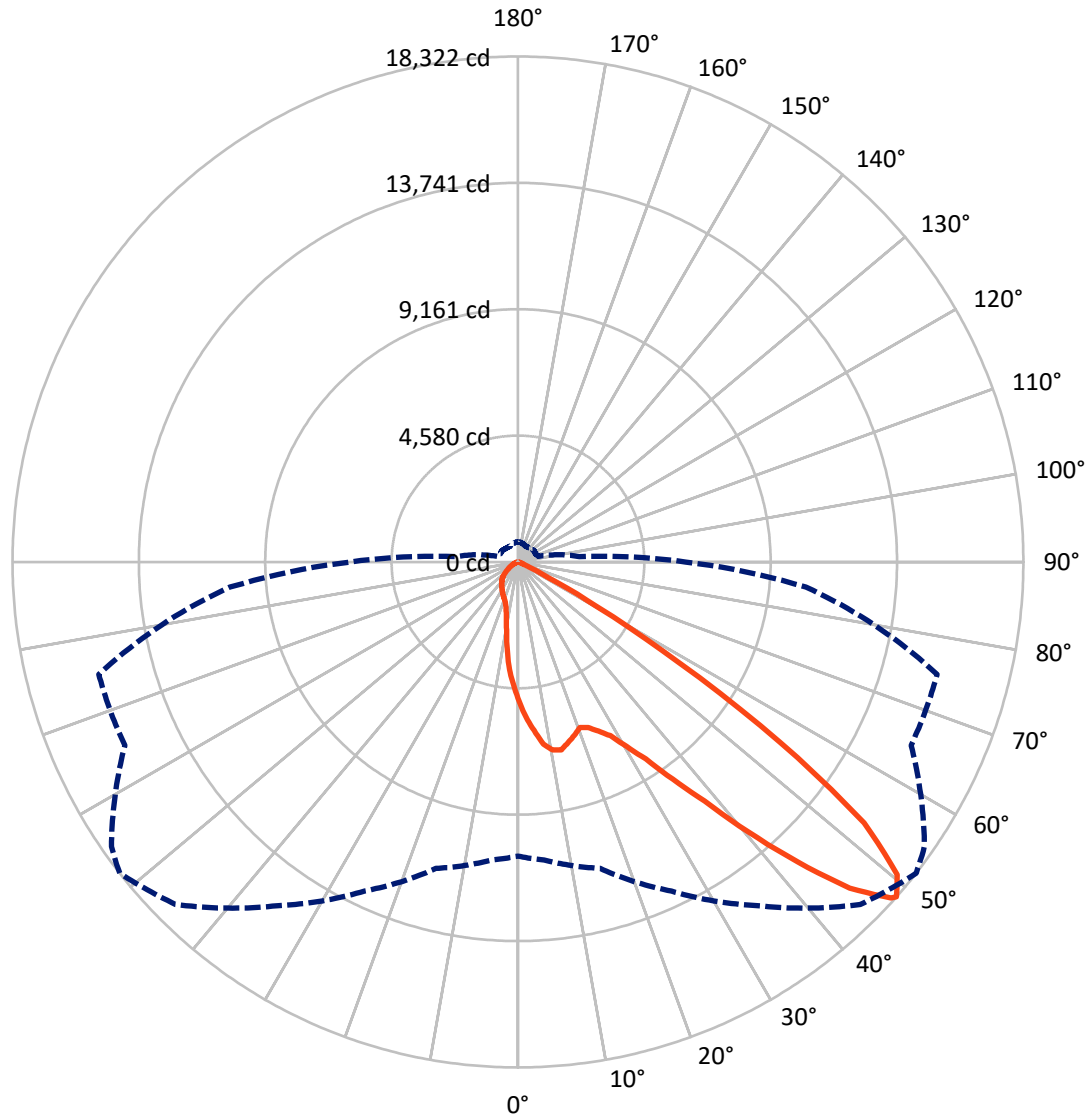
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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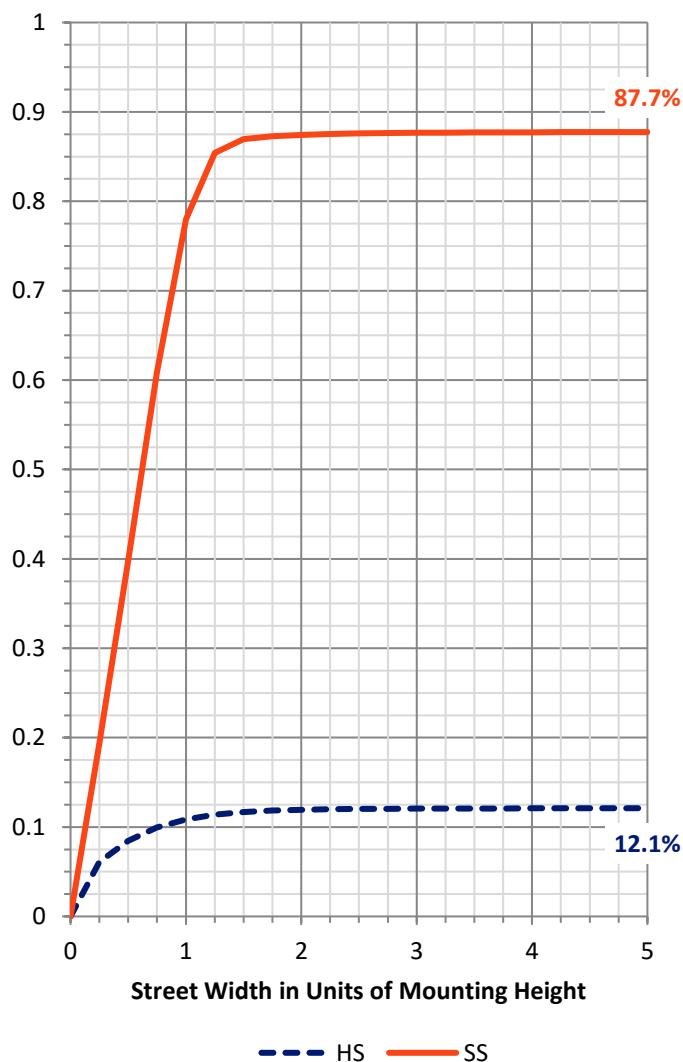
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.9	0.0	2126.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15341.1	0.0	15341.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	17468.0	0.0	17468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	2.6
10°-20°	1206.6	6.9
20°-30°	2060.2	11.8
30°-40°	3793.9	21.7
40°-50°	5891.9	33.7
50°-60°	3545.9	20.3
60°-70°	410.1	2.3
70°-80°	79.4	0.5
80°-90°	18.3	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°	17468.0	100.0
0°-180°	17468.0	100.0

Coefficient of Utilization



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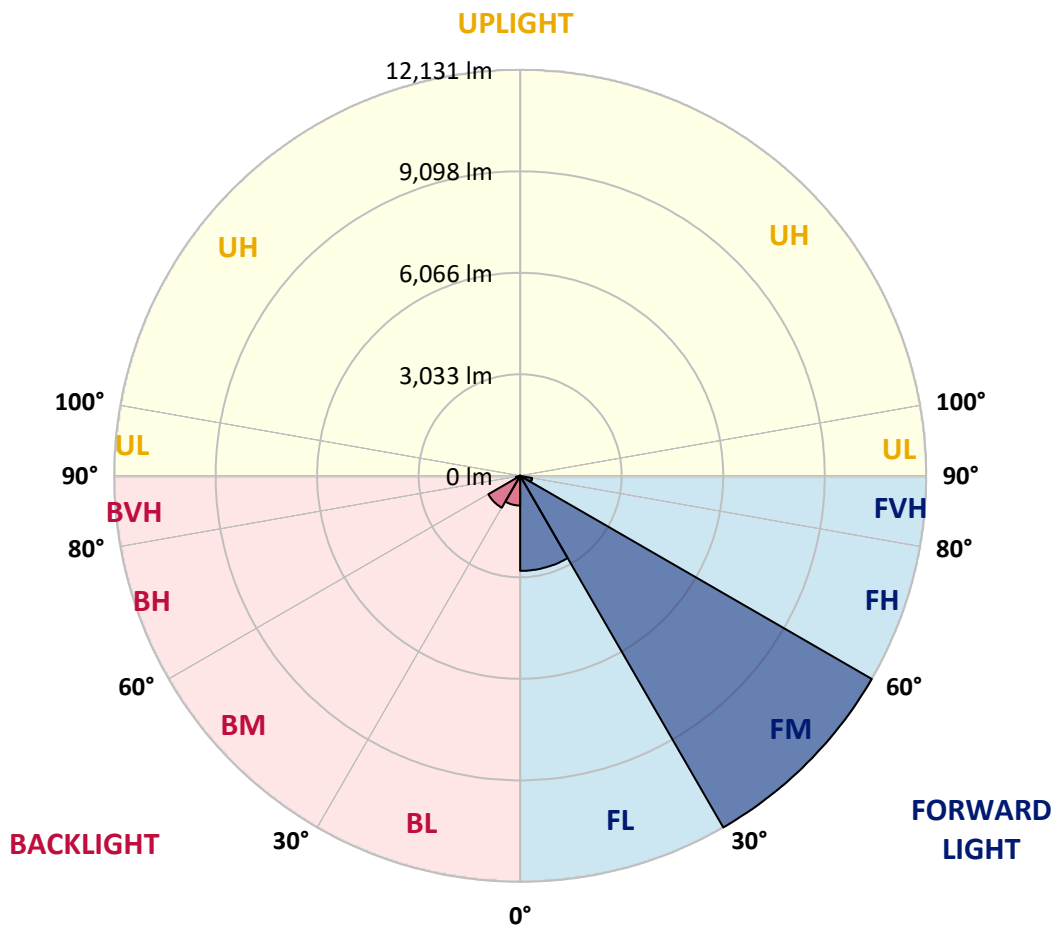
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2840.1	16.3			
FM (30°-60°)	12131.2	69.4			
FH (60°-80°)	361.1	2.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	888.5	5.1	B2/1000		
BM (30°-60°)	1100.4	6.3	B2/2500		
BH (60°-80°)	128.4	0.7	B1/500		G1/500
BVH (80°-90°)	9.6	0.1			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5
2.5°	6114.0	5973.9	5986.6	5895.0	5841.5	5754.9	5637.8	5614.9	5487.5	5314.4	5138.7
5°	6664.0	6630.9	6674.2	6541.8	6546.9	6404.3	6129.2	6134.3	5841.5	5558.8	5286.4
7.5°	6699.6	6623.3	6666.5	6783.7	6852.4	6827.0	6671.6	6536.7	6259.1	5844.0	5446.8
10°	5999.4	6144.5	6190.4	6383.9	6658.9	6949.2	6931.4	6939.0	6707.3	6164.9	5584.3
12.5°	5579.2	5482.5	5637.8	5754.9	6170.0	6732.7	6989.9	7046.0	7063.8	6475.6	5721.8
15°	5388.2	5388.2	5413.7	5446.8	5747.3	6266.8	6791.3	6954.3	7338.8	6883.0	5938.3
17.5°	5507.9	5502.8	5538.5	5469.7	5581.8	5981.6	6608.0	6793.9	7646.9	7282.8	6108.9
20°	5872.1	5889.9	5867.0	5668.3	5676.0	5976.5	6404.3	6697.1	7855.7	7629.1	6335.5
22.5°	6378.8	6389.0	6259.1	6042.7	5979.0	6126.7	6521.4	6745.5	8023.8	8044.2	6404.3
25°	6964.5	6923.7	6898.3	6592.7	6399.2	6526.5	6786.2	6916.1	8128.2	8400.7	6600.3
27.5°	7776.8	7695.3	7540.0	7267.5	7124.9	6944.1	7130.0	7343.9	8426.1	8899.8	6814.2
30°	8976.1	8904.8	8601.8	8250.4	7876.1	7697.8	7756.4	7873.5	8963.4	9477.8	7096.9
32.5°	10781.6	10631.3	10193.3	9523.6	9014.3	8522.9	8507.6	8632.4	9444.7	10277.4	7433.0
35°	12770.3	12724.5	12080.2	11390.2	10404.7	9645.9	9658.6	9724.8	10366.5	11326.5	7873.5
37.5°	14091.9	14344.0	13934.0	13193.0	12365.4	11280.7	11005.6	11028.6	11632.1	12569.2	8668.0
40°	15113.0	14899.1	14947.5	14774.4	14209.1	13470.6	12862.0	12742.3	13096.3	13944.2	9457.4
42.5°	14667.4	14677.6	14975.5	15385.5	15525.6	15472.1	14850.8	14624.1	14349.1	15069.7	10208.6
45°	13409.5	13671.8	14058.8	15143.6	16096.0	16989.7	16867.5	16490.6	15214.9	15961.0	10641.5
47.5°	11402.9	11392.7	12026.8	13437.5	15553.6	17646.7	18201.8	17937.0	15828.6	15861.7	10552.4
48°	10661.9	10845.2	11499.7	13159.9	15209.8	17550.0	18321.5	17987.9	15724.2	15729.3	10476.0
50°	7881.2	7848.1	8662.9	10700.1	13585.2	16490.6	17817.3	18077.1	15721.6	15059.6	9941.2
52.5°	4163.4	4306.0	4899.3	6727.7	9605.1	13496.1	15716.5	16121.4	15166.5	13964.6	9172.2
55°	1769.8	1599.2	2055.0	3037.9	5403.5	9016.9	11530.2	12431.6	12823.8	12357.8	8023.8
57.5°	631.5	690.1	794.5	1143.3	2271.4	4935.0	6875.3	7575.6	8884.5	9067.8	5467.2
60°	404.9	412.5	445.6	524.6	853.1	1902.2	3262.0	3819.6	4413.0	4555.6	2551.5
62.5°	313.2	315.8	331.0	343.8	404.9	738.5	1224.8	1451.5	1507.5	1296.1	669.7
65°	262.3	264.8	269.9	269.9	287.7	346.3	427.8	471.1	458.4	453.3	379.4
67.5°	201.2	206.3	216.4	216.4	226.6	211.4	236.8	252.1	285.2	346.3	323.4
70°	157.9	160.4	168.1	173.2	173.2	152.8	170.6	185.9	208.8	257.2	254.6
72.5°	122.2	127.3	132.4	132.4	124.8	104.4	122.2	135.0	150.2	178.2	173.2
75°	94.2	94.2	96.8	78.9	61.1	53.5	73.8	89.1	112.0	117.1	96.8
77.5°	25.5	28.0	25.5	22.9	25.5	38.2	48.4	56.0	71.3	71.3	63.7
80°	0.0	2.5	7.6	15.3	25.5	35.6	43.3	48.4	56.0	61.1	58.6
82.5°	0.0	2.5	7.6	15.3	22.9	28.0	38.2	40.7	45.8	53.5	53.5
85°	0.0	2.5	5.1	10.2	15.3	17.8	17.8	15.3	15.3	12.7	10.2
87.5°	0.0	0.0	2.5	5.1	5.1	7.6	7.6	7.6	7.6	7.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5	5044.5
2.5°	5069.9	4991.0	4871.3	4682.9	4502.1	4384.9	4272.9	4148.1	4079.4	4074.3	4036.1
5°	5131.0	4952.8	4667.6	4344.2	3997.9	3700.0	3399.5	3203.4	3027.7	2930.9	2913.1
7.5°	5164.2	4932.4	4471.5	3929.1	3338.4	2852.0	2515.9	2268.9	2172.1	2100.8	2098.3
10°	5232.9	4896.8	4178.7	3379.1	2648.3	2156.8	1925.1	1813.1	1759.6	1739.2	1708.7
12.5°	5283.8	4830.6	3878.2	2813.8	2093.2	1787.6	1685.7	1660.3	1662.8	1673.0	1660.3
15°	5355.1	4772.0	3473.3	2309.6	1757.0	1609.3	1609.3	1614.4	1650.1	1655.2	1652.6
17.5°	5350.0	4657.4	3055.7	1902.2	1553.3	1532.9	1540.6	1589.0	1611.9	1619.5	1601.7
20°	5411.2	4550.5	2625.4	1624.6	1438.7	1469.3	1520.2	1532.9	1561.0	1566.1	1545.7
22.5°	5393.3	4283.1	2225.6	1405.6	1352.2	1410.7	1461.6	1476.9	1469.3	1454.0	1451.5
25°	5360.2	4053.9	1858.9	1260.5	1288.5	1352.2	1400.5	1372.5	1357.2	1359.8	1362.3
27.5°	5301.7	3763.6	1555.9	1158.6	1201.9	1296.1	1293.6	1283.4	1298.7	1285.9	1298.7
30°	5291.5	3473.3	1306.3	1067.0	1138.3	1207.0	1212.1	1229.9	1247.7	1224.8	1247.7
32.5°	5306.8	3155.0	1128.1	1010.9	1100.1	1102.6	1158.6	1176.4	1163.7	1112.8	1117.9
35°	5423.9	2910.6	998.2	980.4	1038.9	1041.5	1095.0	1072.0	1016.0	985.5	1003.3
37.5°	5670.9	2706.8	937.1	952.4	957.5	990.6	993.1	947.3	952.4	949.8	960.0
40°	5986.6	2551.5	893.8	926.9	921.8	944.7	853.1	878.5	901.4	909.1	914.2
42.5°	6203.1	2439.5	865.8	886.2	876.0	835.2	784.3	809.8	827.6	855.6	860.7
45°	6299.9	2350.4	832.7	814.9	814.9	741.0	720.6	725.7	766.5	797.0	791.9
47.5°	6142.0	2263.8	774.1	720.6	738.5	677.3	654.4	654.4	697.7	735.9	728.3
48°	6080.9	2228.1	776.7	700.3	713.0	667.2	644.2	639.2	687.5	723.2	723.2
50°	5777.8	2095.7	710.5	644.2	618.8	613.7	598.4	603.5	634.1	667.2	667.2
52.5°	5187.1	1810.5	601.0	552.6	506.7	537.3	544.9	534.7	550.0	580.6	578.0
55°	4328.9	1390.3	481.3	458.4	422.7	455.8	471.1	458.4	443.1	466.0	466.0
57.5°	2773.1	748.6	384.5	389.6	354.0	387.1	399.8	369.2	341.2	359.0	356.5
60°	1250.3	448.2	315.8	308.1	285.2	323.4	343.8	308.1	269.9	282.7	295.4
62.5°	468.5	318.3	239.4	234.3	229.2	264.8	275.0	247.0	208.8	216.4	219.0
65°	343.8	280.1	191.0	173.2	183.3	208.8	203.7	175.7	150.2	150.2	155.3
67.5°	292.8	244.5	155.3	135.0	135.0	137.5	127.3	112.0	104.4	109.5	114.6
70°	229.2	193.5	122.2	104.4	94.2	84.0	73.8	71.3	63.7	71.3	68.8
72.5°	147.7	129.9	94.2	78.9	71.3	58.6	48.4	45.8	38.2	35.6	35.6
75°	78.9	78.9	73.8	63.7	56.0	45.8	38.2	30.6	20.4	15.3	15.3
77.5°	56.0	61.1	66.2	61.1	50.9	38.2	30.6	20.4	10.2	5.1	5.1
80°	53.5	61.1	66.2	58.6	50.9	38.2	28.0	15.3	7.6	2.5	2.5
82.5°	48.4	56.0	61.1	53.5	45.8	33.1	25.5	15.3	7.6	2.5	2.5
85°	10.2	12.7	15.3	15.3	17.8	22.9	17.8	12.7	5.1	2.5	2.5
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	5.1	5.1	2.5	2.5	2.5
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)