

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: P533584

Luminaire Tested: **GALN-SA9A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34849 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

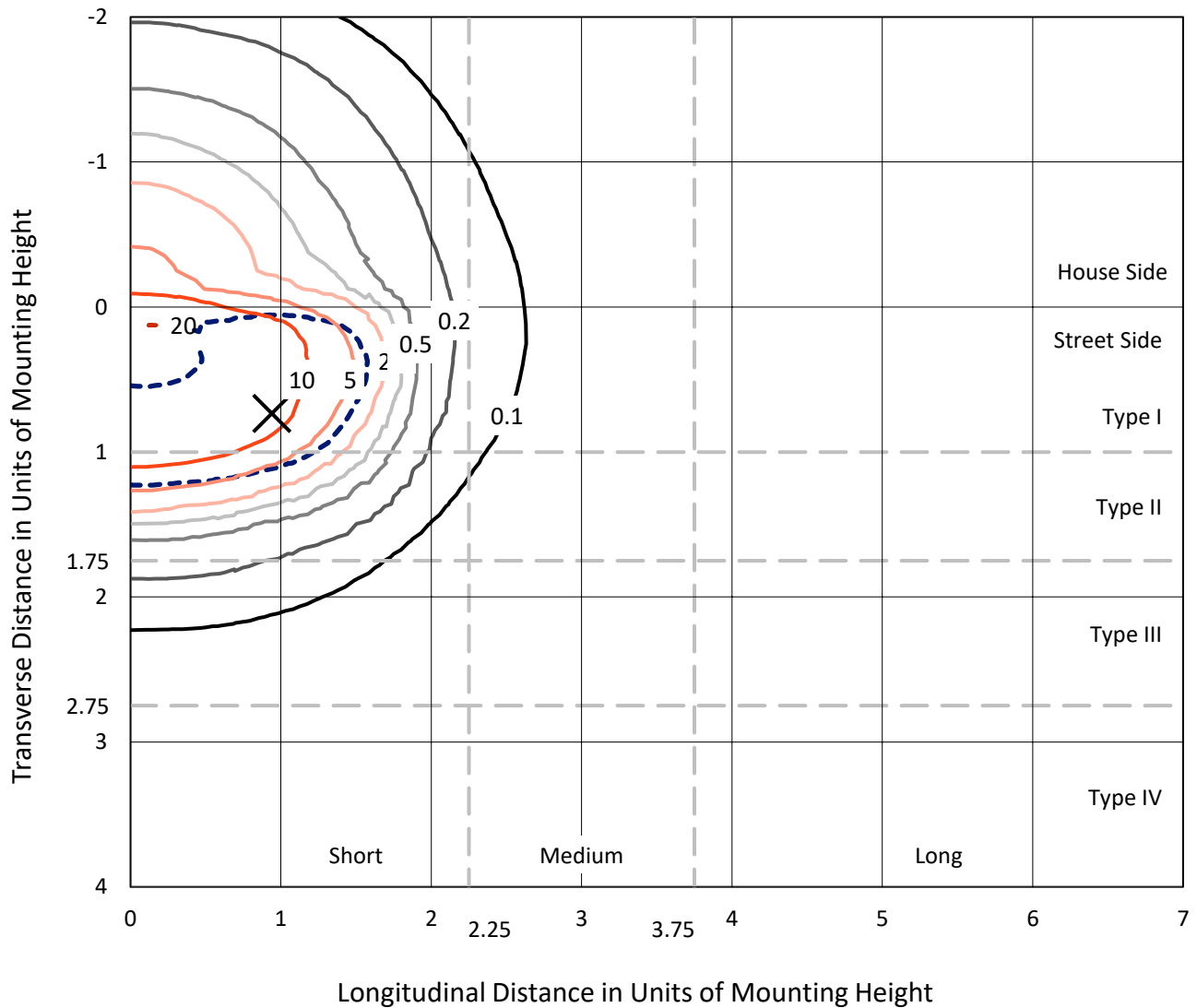
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533584  
 CATALOG NUMBER: GALN-SA9A-735-U-AFL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

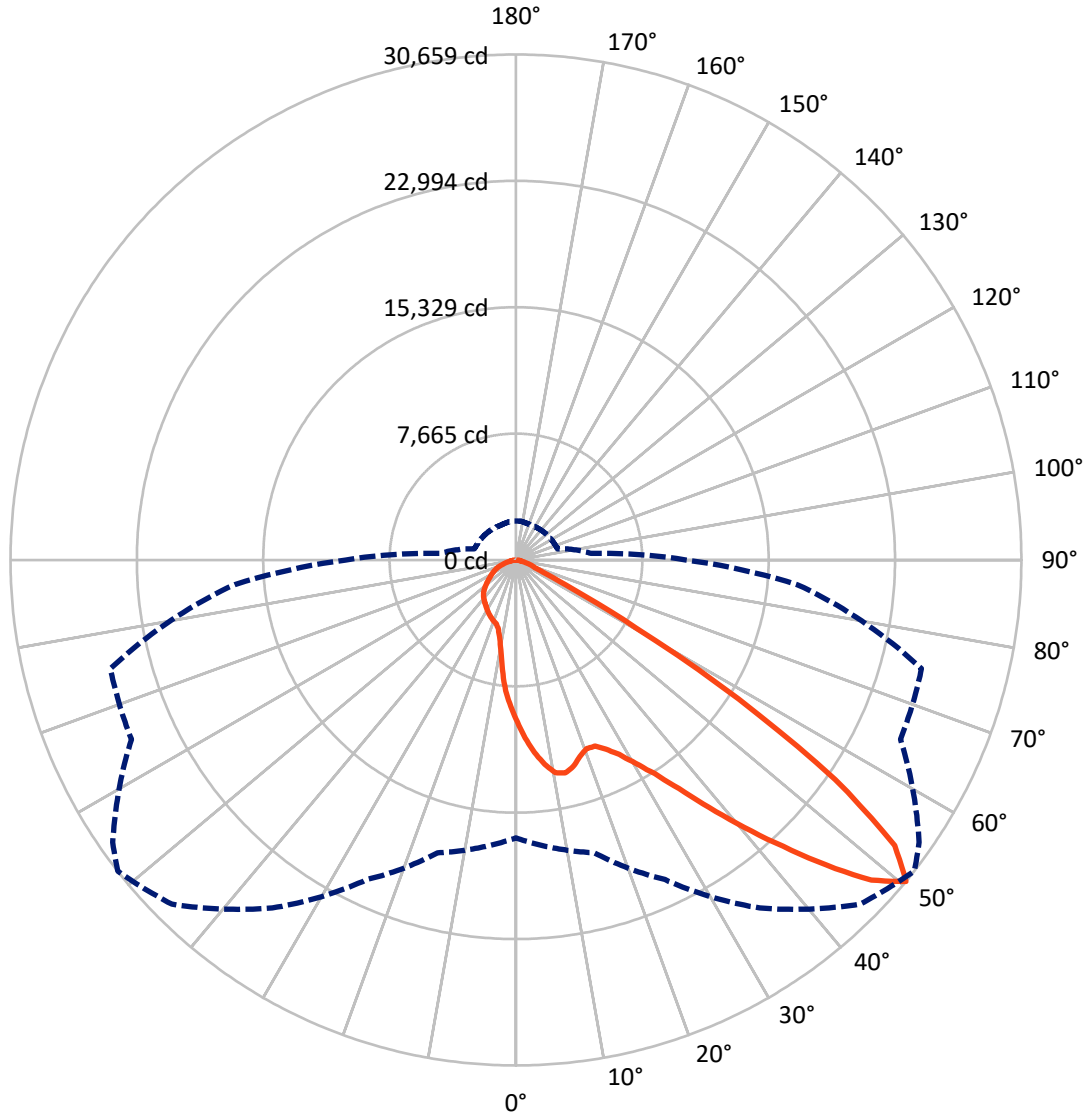
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P533584  
CATALOG NUMBER: GALN-SA9A-735-U-AFL-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P533584  
 CATALOG NUMBER: GALN-SA9A-735-U-AFL-GRSWH

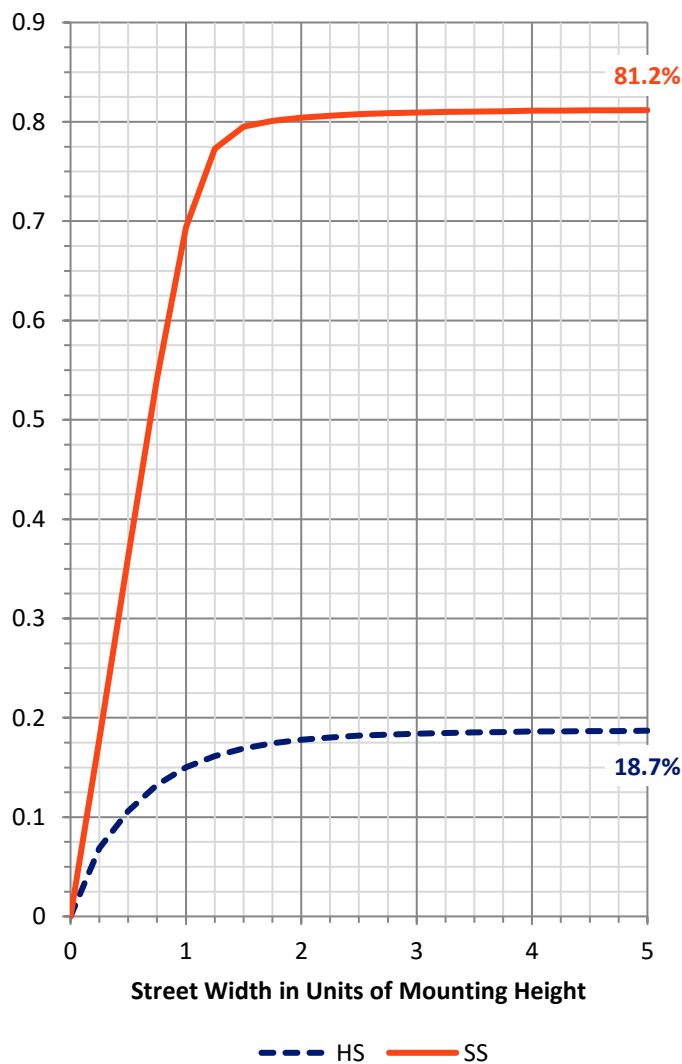
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6550.8	0.0	6550.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	28298.2	0.0	28298.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	34849.0	0.0	34849.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.4	2.6
10°-20°	2426.7	7.0
20°-30°	4087.7	11.7
30°-40°	6859.6	19.7
40°-50°	10493.5	30.1
50°-60°	7650.6	22.0
60°-70°	1702.6	4.9
70°-80°	614.1	1.8
80°-90°	108.7	0.3
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°	34849.0	100.0
0°-180°	34849.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P533584

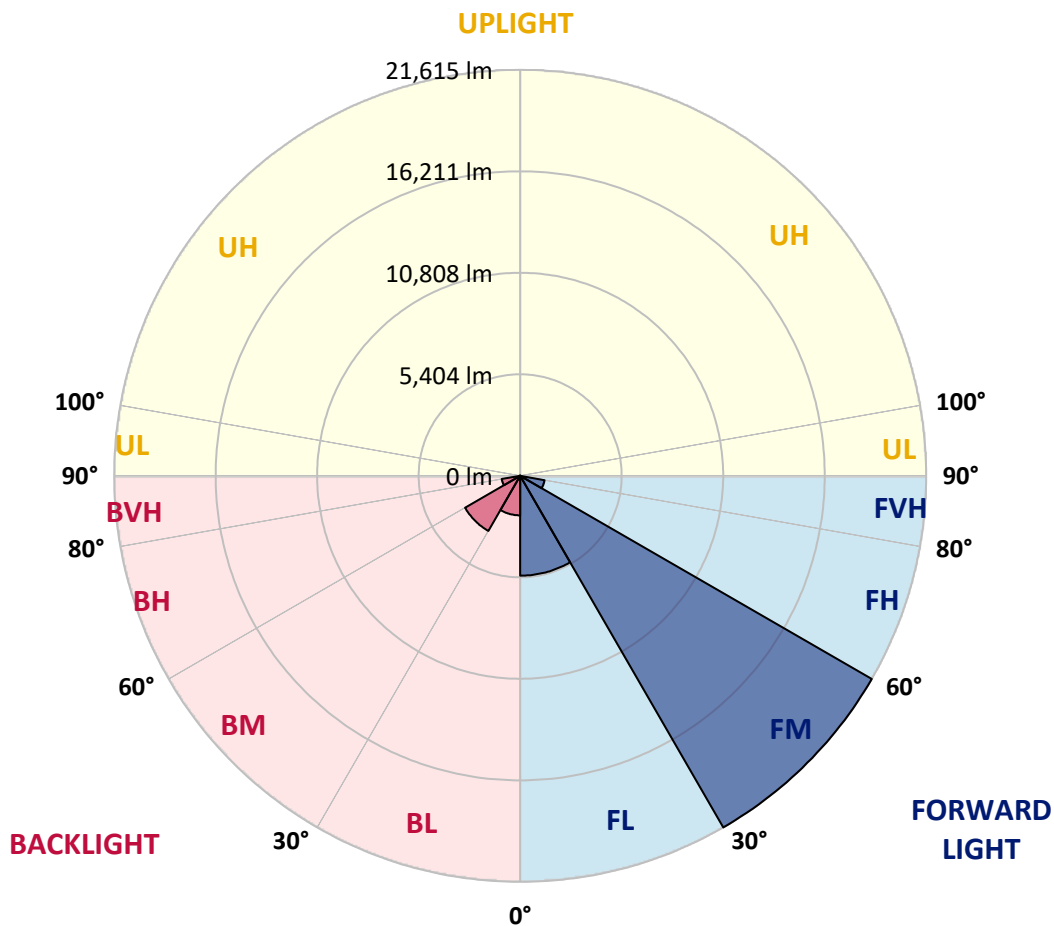
CATALOG NUMBER: GALN-SA9A-735-U-AFL-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5315.7	15.3			
FM (30°-60°)	21615.1	62.0			
FH (60°-80°)	1318.7	3.8			G1/1800
FVH (80°-90°)	48.7	0.1			G1/100
BL (0°-30°)	2104.2	6.0	B3/2500		
BM (30°-60°)	3388.5	9.7	B3/5000		
BH (60°-80°)	998.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	60.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P533584

CATALOG NUMBER: GALN-SA9A-735-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4
2.5°	11566.3	11343.7	11368.9	11209.3	11037.1	10986.7	10810.3	10642.3	10516.3	10247.5	9999.7
5°	12641.4	12574.2	12473.4	12347.4	12217.2	11898.1	11717.5	11507.5	11045.5	10629.7	10218.1
7.5°	12796.8	12784.2	12838.8	12838.8	12885.0	12763.2	12507.0	12360.0	11868.7	11192.5	10428.1
10°	11704.9	11742.7	12007.3	12351.6	12830.4	13162.2	13120.2	13082.4	12544.8	11620.9	10675.9
12.5°	10835.5	10751.5	10906.9	11200.9	11919.1	12721.2	13263.0	13267.2	13128.6	12305.4	10856.5
15°	10344.1	10402.9	10444.9	10583.5	11125.3	12053.5	13006.8	13288.2	13897.2	12788.4	11142.1
17.5°	10659.1	10461.7	10453.3	10486.9	10764.1	11461.3	12532.2	13015.2	14317.2	13410.0	11494.9
20°	11070.7	11066.5	10948.9	10906.9	10902.7	11524.3	12221.4	12876.6	14539.7	14216.4	11851.9
22.5°	11793.1	11793.1	11599.9	11507.5	11310.1	11818.3	12263.4	12708.6	14909.3	14770.7	12024.1
25°	13002.6	12805.2	12473.4	12246.6	12133.3	12313.8	12708.6	13107.6	15232.7	15358.7	12381.0
27.5°	14119.8	13809.0	13645.2	13254.6	13103.4	12998.4	13359.6	13762.8	15610.7	16274.3	12574.2
30°	15388.1	15333.5	15039.5	14535.5	14161.8	13968.6	14300.4	14699.3	16303.7	17210.8	13019.4
32.5°	17656.0	17160.4	16761.4	16144.1	15535.1	15123.5	15451.1	15715.7	17454.4	18189.4	13506.6
35°	20104.5	19944.9	19256.1	18143.2	17210.8	16841.2	17034.4	17231.8	18794.1	19684.5	14325.6
37.5°	22511.0	22292.6	21725.6	20789.1	19655.1	18903.3	19041.9	19272.9	20297.7	21700.4	15325.1
40°	24241.3	23972.5	23686.9	23548.3	22422.8	21393.8	21314.0	21372.8	22330.4	23590.3	16433.9
42.5°	24367.3	24699.1	24787.3	25345.9	25081.3	24237.1	23745.7	23758.3	24270.7	25459.2	17555.2
45°	24102.7	23796.1	24447.1	25971.6	26845.2	27240.0	26412.6	26307.6	25471.8	26542.8	18113.8
47.5°	21326.6	21410.6	22511.0	24921.7	27445.8	29209.7	29016.5	28667.9	26114.4	26505.0	18025.6
50°	16858.0	17366.2	18386.8	21389.6	25765.8	29520.5	30658.6	29852.2	25732.2	25463.4	17126.8
52.5°	11226.1	11436.1	12108.1	15984.5	20717.7	26387.4	28768.7	28953.5	25379.5	24098.5	15988.7
55°	4997.8	4981.0	5925.9	8349.2	12998.4	20079.3	23506.3	24631.9	24022.9	22708.4	14879.9
57.5°	2116.7	2188.1	2574.5	3607.6	6392.1	12116.5	15925.7	16912.6	18475.0	18647.2	11415.1
60°	1432.1	1440.5	1545.5	1805.9	2675.3	5690.7	8353.4	9537.8	10654.9	10579.3	6056.1
62.5°	1125.5	1154.9	1234.7	1339.7	1587.5	2582.9	3737.8	4397.2	4468.6	3758.8	2297.3
65°	961.8	966.0	1045.8	1133.9	1243.1	1503.5	1801.7	1835.3	1856.3	1789.1	1688.3
67.5°	793.8	802.2	865.2	966.0	1066.8	1150.7	1234.7	1276.7	1373.3	1562.3	1537.1
70°	630.0	642.6	697.2	781.2	873.6	924.0	1029.0	1066.8	1154.9	1301.9	1360.7
72.5°	478.8	483.0	529.2	588.0	672.0	722.4	810.6	852.6	911.4	1037.4	1092.0
75°	344.4	357.0	390.6	420.0	432.6	466.2	550.2	596.4	680.4	735.0	739.2
77.5°	180.6	189.0	197.4	197.4	239.4	302.4	357.0	382.2	441.0	483.0	462.0
80°	71.4	75.6	96.6	130.2	168.0	218.4	256.2	268.8	319.2	344.4	357.0
82.5°	42.0	46.2	63.0	92.4	121.8	155.4	184.8	197.4	231.0	260.4	268.8
85°	21.0	25.2	37.8	58.8	79.8	96.6	92.4	88.2	88.2	84.0	88.2
87.5°	8.4	8.4	12.6	12.6	12.6	16.8	21.0	21.0	21.0	25.2	25.2
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: P533584

CATALOG NUMBER: GALN-SA9A-735-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4	9823.4
2.5°	9836.0	9668.0	9512.6	9227.0	8916.2	8828.0	8466.8	8336.6	8244.2	8135.0	8101.4
5°	9886.4	9663.8	9164.0	8588.6	8130.8	7542.9	7156.5	6740.7	6438.3	6362.7	6341.7
7.5°	9991.3	9609.2	8748.2	7878.8	6942.3	6144.3	5535.3	5207.8	4918.0	4901.2	4871.8
10°	10108.9	9445.4	8294.6	6929.7	5732.7	4993.6	4628.2	4485.4	4414.0	4397.2	4388.8
12.5°	10205.5	9411.8	7786.4	6005.7	4876.0	4430.8	4321.6	4309.0	4338.4	4346.8	4363.6
15°	10247.5	9277.4	7173.3	5178.4	4342.6	4178.8	4225.0	4275.4	4296.4	4351.0	4309.0
17.5°	10327.3	9105.2	6417.3	4523.2	4044.4	4073.8	4153.6	4212.4	4246.0	4283.8	4229.2
20°	10369.3	8949.8	5707.5	4132.6	3939.4	3994.0	4103.2	4149.4	4191.4	4208.2	4145.2
22.5°	10331.5	8630.6	5081.8	3817.6	3838.6	3910.0	4006.6	4057.0	4031.8	3964.6	3926.8
25°	10230.7	8181.2	4430.8	3616.0	3695.8	3821.8	3897.4	3859.6	3813.4	3775.6	3763.0
27.5°	10226.5	7631.1	3960.4	3431.2	3574.0	3746.2	3721.0	3687.4	3708.4	3679.0	3645.4
30°	10247.5	7097.7	3574.0	3326.2	3485.8	3569.8	3599.2	3565.6	3590.8	3536.2	3553.0
32.5°	10138.3	6576.9	3322.0	3204.5	3380.8	3376.6	3473.2	3498.4	3439.6	3326.2	3343.0
35°	10184.5	6156.9	3107.9	3149.9	3263.3	3263.3	3338.8	3309.5	3154.1	3086.9	3103.7
37.5°	10503.7	5745.3	3002.9	3074.3	3149.9	3183.5	3158.3	3032.3	2994.5	2994.5	3002.9
40°	10806.1	5392.6	2939.9	3057.5	3044.9	3065.9	2881.1	2893.7	2893.7	2897.9	2876.9
42.5°	11074.9	5153.2	2889.5	2956.7	2977.7	2868.5	2755.1	2742.5	2771.9	2767.7	2750.9
45°	11171.5	4955.8	2818.1	2843.3	2860.1	2679.5	2624.9	2599.7	2633.3	2645.9	2662.7
47.5°	10801.9	4792.0	2738.3	2687.9	2654.3	2536.7	2465.3	2419.1	2461.1	2532.5	2549.3
50°	10327.3	4577.8	2612.3	2515.7	2444.3	2393.9	2343.5	2297.3	2326.7	2377.1	2364.5
52.5°	9626.0	4241.8	2452.7	2351.9	2230.1	2242.7	2196.5	2171.3	2188.1	2188.1	2175.5
55°	8626.4	3485.8	2183.9	2112.5	2011.7	2045.3	2053.7	2020.1	1986.5	2015.9	1990.7
57.5°	5888.1	2461.1	1948.7	1948.7	1847.9	1894.1	1889.9	1810.1	1730.3	1738.7	1721.9
60°	3406.0	1961.3	1797.5	1780.7	1675.7	1713.5	1721.9	1667.3	1545.5	1553.9	1537.1
62.5°	1936.1	1675.7	1570.7	1545.5	1524.5	1558.1	1558.1	1486.7	1381.7	1390.1	1373.3
65°	1646.3	1553.9	1402.7	1398.5	1390.1	1398.5	1364.9	1289.3	1196.9	1159.1	1163.3
67.5°	1495.1	1436.3	1289.3	1251.5	1226.3	1222.1	1159.1	1087.8	1045.8	1012.2	1008.0
70°	1310.3	1264.1	1154.9	1104.6	1079.4	1020.6	957.6	911.4	852.6	835.8	852.6
72.5°	1037.4	1033.2	991.2	936.6	882.0	835.8	781.2	718.2	663.6	651.0	621.6
75°	718.2	726.6	735.0	726.6	680.4	621.6	558.6	508.2	441.0	403.2	394.8
77.5°	470.4	483.0	495.6	478.8	449.4	394.8	352.8	289.8	239.4	210.0	205.8
80°	344.4	361.2	369.6	357.0	323.4	281.4	235.2	184.8	147.0	121.8	121.8
82.5°	264.6	281.4	289.8	268.8	235.2	201.6	168.0	130.2	100.8	79.8	75.6
85°	92.4	88.2	105.0	109.2	130.2	121.8	100.8	75.6	58.8	42.0	37.8
87.5°	25.2	25.2	29.4	29.4	25.2	21.0	21.0	21.0	16.8	12.6	12.6
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)