

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: P532180

Luminaire Tested: **GALN-SA7C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532180
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-SA7C-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA 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: 41162 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

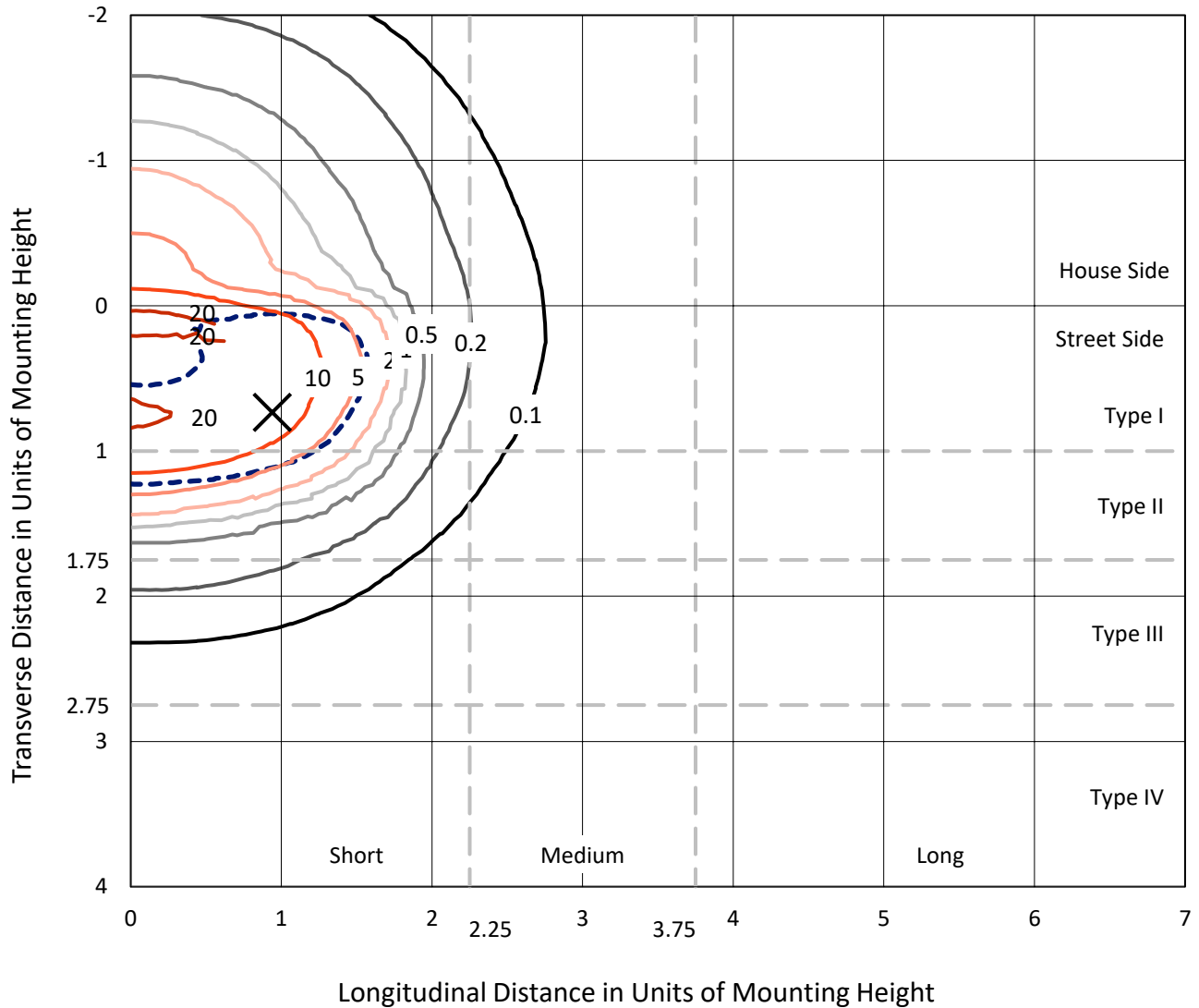
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532180
 CATALOG NUMBER: GALN-SA7C-735-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

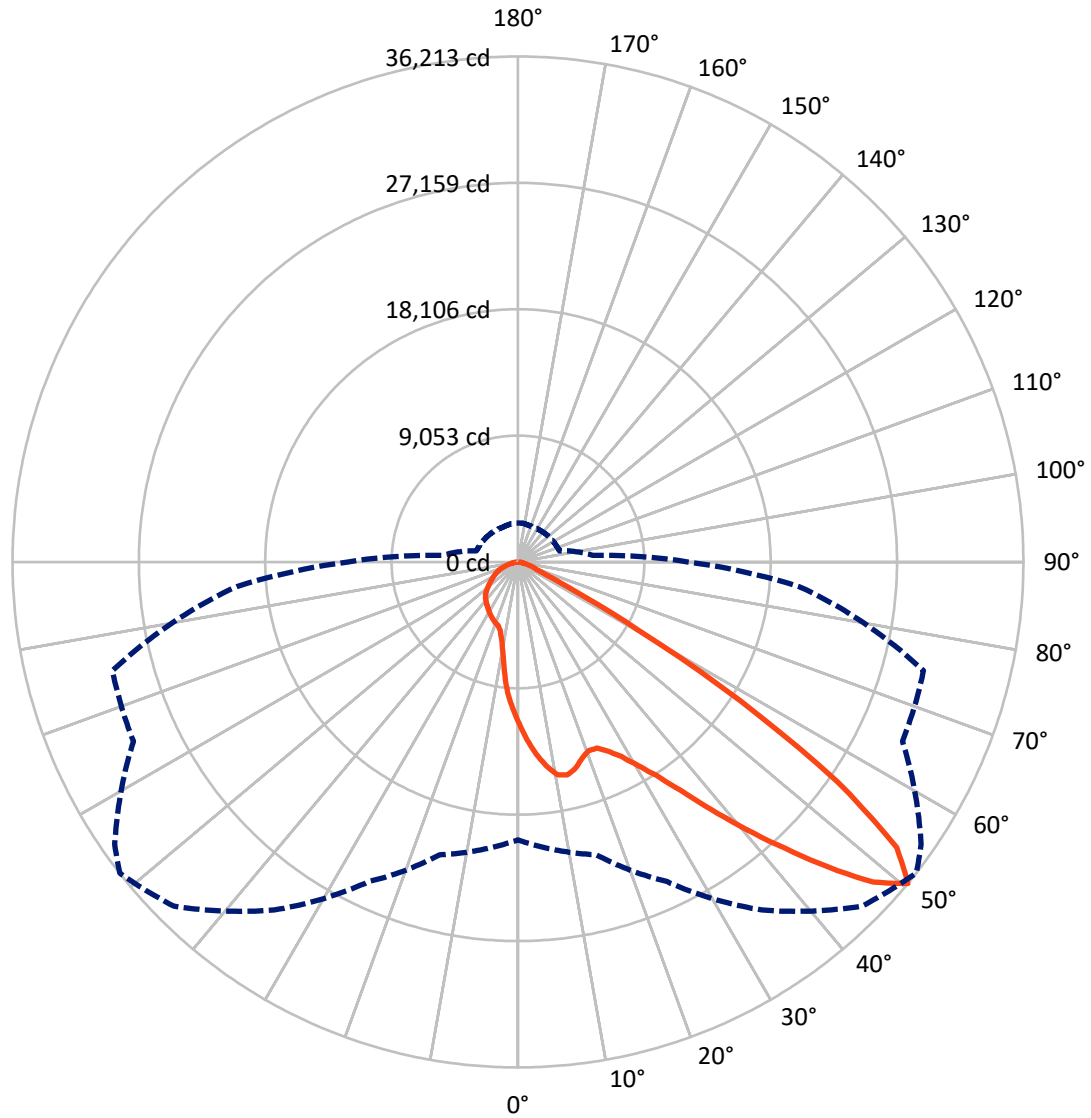
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Short - N/A

REPORT NUMBER: P532180
CATALOG NUMBER: GALN-SA7C-735-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P532180
 CATALOG NUMBER: GALN-SA7C-735-U-AFL-GRSWH

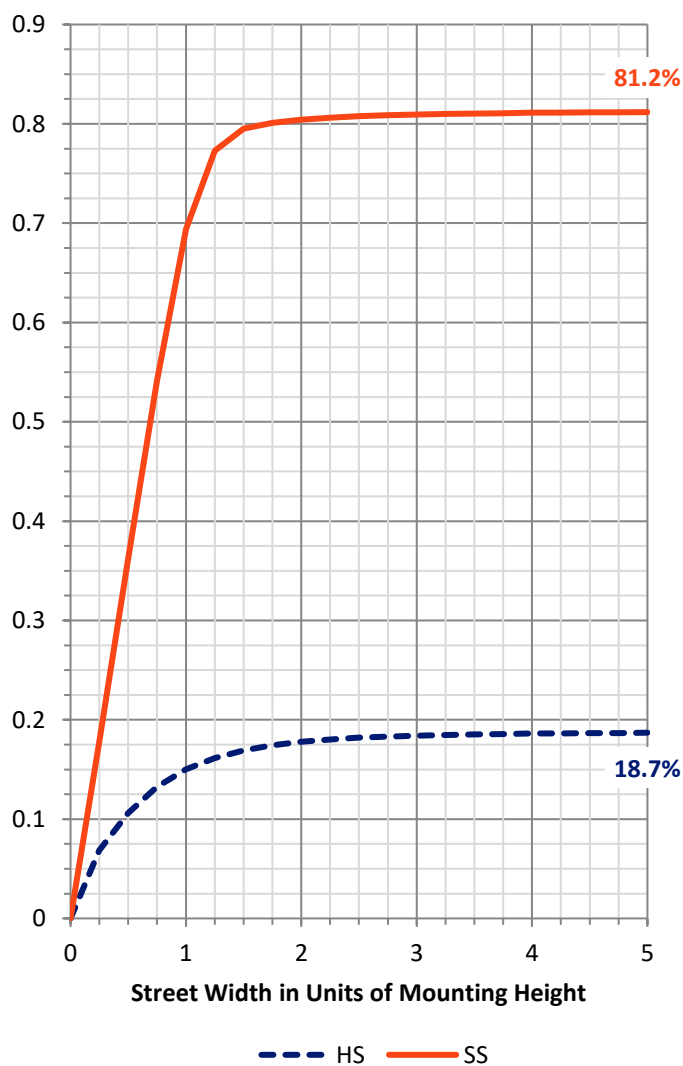
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7737.5	0.0	7737.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33424.5	0.0	33424.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	41162.0	0.0	41162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1069.4	2.6
10°-20°	2866.3	7.0
20°-30°	4828.3	11.7
30°-40°	8102.2	19.7
40°-50°	12394.4	30.1
50°-60°	9036.5	22.0
60°-70°	2011.1	4.9
70°-80°	725.4	1.8
80°-90°	128.4	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°	41162.0	100.0
0°-180°	41162.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532180

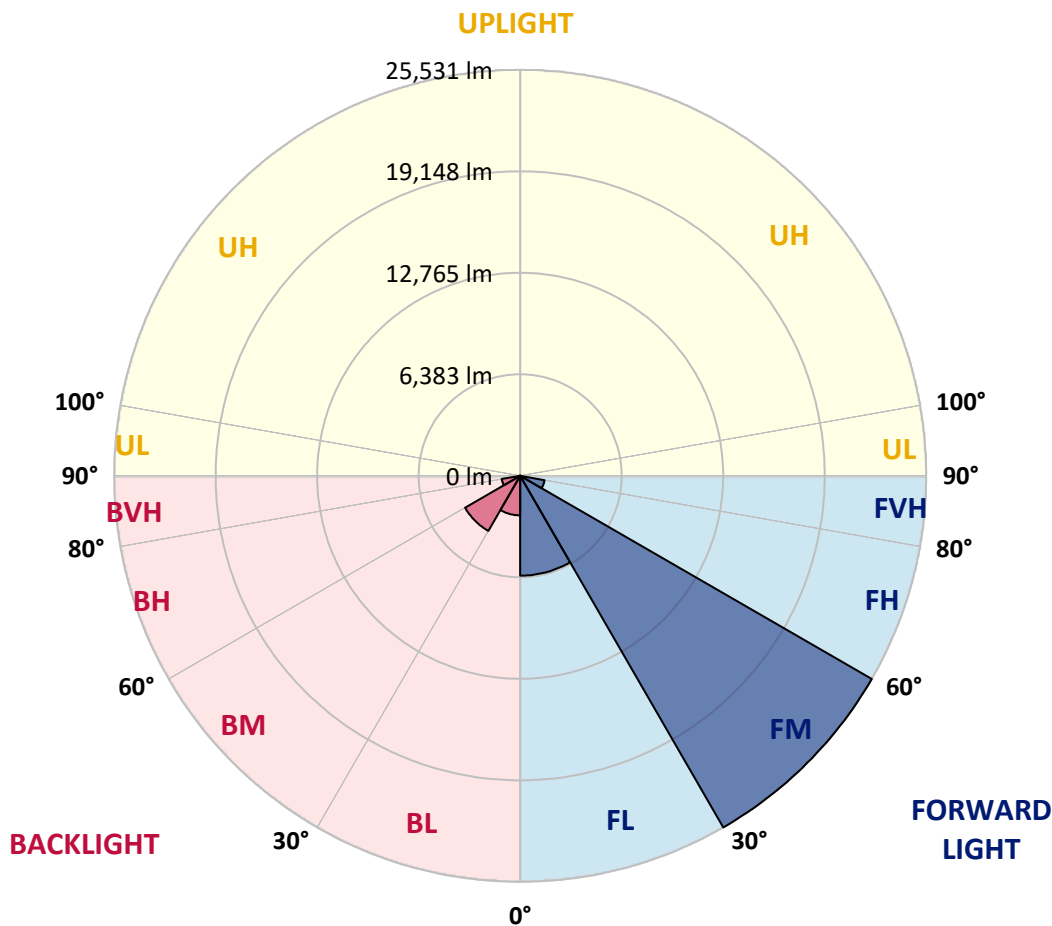
CATALOG NUMBER: GALN-SA7C-735-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6278.6	15.3			
FM (30°-60°)	25530.8	62.0			
FH (60°-80°)	1557.6	3.8			G1/1800
FVH (80°-90°)	57.5	0.1			G1/100
BL (0°-30°)	2485.4	6.0	B3/2500		
BM (30°-60°)	4002.4	9.7	B3/5000		
BH (60°-80°)	1178.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	70.9	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-G3

Type II Short





REPORT NUMBER: P532180

CATALOG NUMBER: GALN-SA7C-735-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9
2.5°	13661.5	13398.6	13428.4	13239.9	13036.5	12977.0	12768.6	12570.2	12421.4	12103.9	11811.2
5°	14931.5	14852.1	14733.0	14584.2	14430.4	14053.4	13840.1	13592.1	13046.4	12555.3	12069.2
7.5°	15115.0	15100.1	15164.6	15164.6	15219.2	15075.3	14772.7	14599.1	14018.7	13220.0	12317.2
10°	13825.2	13869.9	14182.4	14589.2	15154.7	15546.6	15497.0	15452.3	14817.4	13726.0	12609.9
12.5°	12798.4	12699.2	12882.7	13230.0	14078.2	15025.7	15665.6	15670.6	15506.9	14534.6	12823.2
15°	12218.0	12287.5	12337.1	12500.8	13140.7	14237.0	15363.0	15695.4	16414.7	15105.1	13160.5
17.5°	12590.0	12356.9	12347.0	12386.7	12714.1	13537.5	14802.5	15373.0	16910.7	15839.3	13577.2
20°	13076.2	13071.2	12932.3	12882.7	12877.8	13611.9	14435.4	15209.3	17173.7	16791.7	13998.9
22.5°	13929.4	13929.4	13701.2	13592.1	13358.9	13959.2	14485.0	15010.8	17610.2	17446.5	14202.2
25°	15358.1	15124.9	14733.0	14465.2	14331.2	14544.5	15010.8	15482.1	17992.2	18141.0	14623.9
27.5°	16677.6	16310.5	16117.0	15655.7	15477.1	15353.1	15779.7	16255.9	18438.6	19222.4	14852.1
30°	18175.7	18111.2	17764.0	17168.7	16727.2	16499.0	16890.9	17362.2	19257.1	20328.6	15377.9
32.5°	20854.4	20269.1	19797.8	19068.6	18349.3	17863.2	18250.1	18562.6	20616.3	21484.4	15953.3
35°	23746.5	23558.0	22744.4	21429.9	20328.6	19892.1	20120.3	20353.4	22198.8	23250.4	16920.7
37.5°	26588.9	26331.0	25661.3	24555.1	23215.7	22327.7	22491.4	22764.3	23974.7	25631.5	18101.3
40°	28632.7	28315.2	27977.9	27814.2	26484.7	25269.4	25175.1	25244.6	26375.6	27863.8	19410.9
42.5°	28781.5	29173.4	29277.6	29937.3	29624.8	28627.7	28047.3	28062.2	28667.4	30071.3	20735.4
45°	28469.0	28106.9	28875.8	30676.5	31708.3	32174.6	31197.3	31073.3	30086.1	31351.1	21395.1
47.5°	25190.0	25289.2	26588.9	29436.3	32417.6	34501.1	34272.9	33861.2	30845.1	31306.5	21291.0
50°	19911.9	20512.2	21717.6	25264.4	30433.4	34868.2	36212.5	35260.1	30393.7	30076.2	20229.4
52.5°	13259.7	13507.8	14301.5	18880.1	24470.7	31167.6	33980.2	34198.5	29977.0	28464.0	18885.1
55°	5903.1	5883.3	6999.4	9861.7	15353.1	23716.7	27764.6	29094.0	28374.7	26822.1	17575.5
57.5°	2500.2	2584.5	3040.9	4261.2	7550.1	14311.4	18810.7	19976.4	21821.8	22025.1	13483.0
60°	1691.6	1701.5	1825.5	2133.1	3159.9	6721.6	9866.7	11265.6	12585.1	12495.8	7153.2
62.5°	1329.4	1364.2	1458.4	1582.4	1875.1	3050.8	4414.9	5193.8	5278.1	4439.8	2713.5
65°	1136.0	1140.9	1235.2	1339.4	1468.3	1775.9	2128.1	2167.8	2192.6	2113.2	1994.2
67.5°	937.6	947.5	1021.9	1140.9	1260.0	1359.2	1458.4	1508.0	1622.1	1845.3	1815.6
70°	744.1	759.0	823.5	922.7	1031.8	1091.3	1215.4	1260.0	1364.2	1537.8	1607.2
72.5°	565.5	570.5	625.0	694.5	793.7	853.2	957.4	1007.0	1076.5	1225.3	1289.8
75°	406.8	421.7	461.3	496.1	510.9	550.6	649.8	704.4	803.6	868.1	873.1
77.5°	213.3	223.2	233.1	233.1	282.8	357.2	421.7	451.4	520.9	570.5	545.7
80°	84.3	89.3	114.1	153.8	198.4	258.0	302.6	317.5	377.0	406.8	421.7
82.5°	49.6	54.6	74.4	109.1	143.9	183.5	218.3	233.1	272.8	307.6	317.5
85°	24.8	29.8	44.6	69.4	94.3	114.1	109.1	104.2	104.2	99.2	104.2
87.5°	9.9	9.9	14.9	14.9	14.9	19.8	24.8	24.8	24.8	29.8	29.8
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: P532180

CATALOG NUMBER: GALN-SA7C-735-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9	11602.9
2.5°	11617.8	11419.3	11235.8	10898.5	10531.4	10427.2	10000.6	9846.8	9737.7	9608.7	9569.0
5°	11677.3	11414.4	10824.1	10144.5	9603.8	8909.3	8452.9	7961.8	7604.6	7515.3	7490.5
7.5°	11801.3	11349.9	10333.0	9306.1	8199.9	7257.4	6538.1	6151.2	5808.9	5789.0	5754.3
10°	11940.2	11156.4	9797.2	8185.0	6771.2	5898.2	5466.6	5297.9	5213.6	5193.8	5183.8
12.5°	12054.3	11116.7	9197.0	7093.7	5759.3	5233.5	5104.5	5089.6	5124.3	5134.2	5154.1
15°	12103.9	10958.0	8472.7	6116.4	5129.3	4935.8	4990.4	5049.9	5074.7	5139.2	5089.6
17.5°	12198.2	10754.6	7579.8	5342.6	4777.1	4811.8	4906.1	4975.5	5015.2	5059.8	4995.3
20°	12247.8	10571.1	6741.5	4881.2	4653.1	4717.5	4846.5	4901.1	4950.7	4970.5	4896.1
22.5°	12203.1	10194.1	6002.3	4509.2	4534.0	4618.3	4732.4	4792.0	4762.2	4682.8	4638.2
25°	12084.1	9663.3	5233.5	4271.1	4365.3	4514.2	4603.5	4558.8	4504.2	4459.6	4444.7
27.5°	12079.1	9013.4	4677.9	4052.8	4221.5	4424.9	4395.1	4355.4	4380.2	4345.5	4305.8
30°	12103.9	8383.4	4221.5	3928.8	4117.3	4216.5	4251.2	4211.6	4241.3	4176.8	4196.7
32.5°	11974.9	7768.3	3923.8	3785.0	3993.3	3988.3	4102.4	4132.2	4062.7	3928.8	3948.7
35°	12029.5	7272.3	3670.9	3720.5	3854.4	3854.4	3943.7	3909.0	3725.4	3646.1	3665.9
37.5°	12406.5	6786.1	3546.8	3631.2	3720.5	3760.1	3730.4	3581.6	3536.9	3536.9	3546.8
40°	12763.7	6369.4	3472.4	3611.3	3596.4	3621.3	3403.0	3417.9	3417.9	3422.8	3398.0
42.5°	13081.1	6086.7	3412.9	3492.3	3517.1	3388.1	3254.2	3239.3	3274.0	3269.0	3249.2
45°	13195.2	5853.5	3328.6	3358.3	3378.2	3164.9	3100.4	3070.6	3110.3	3125.2	3145.0
47.5°	12758.7	5660.1	3234.3	3174.8	3135.1	2996.2	2911.9	2857.3	2906.9	2991.3	3011.1
50°	12198.2	5407.1	3085.5	2971.4	2887.1	2827.6	2768.0	2713.5	2748.2	2807.7	2792.8
52.5°	11369.7	5010.2	2897.0	2777.9	2634.1	2649.0	2594.4	2564.6	2584.5	2584.5	2569.6
55°	10189.1	4117.3	2579.5	2495.2	2376.1	2415.8	2425.7	2386.1	2346.4	2381.1	2351.3
57.5°	6954.8	2906.9	2301.7	2301.7	2182.7	2237.2	2232.3	2138.0	2043.8	2053.7	2033.9
60°	4023.1	2316.6	2123.1	2103.3	1979.3	2023.9	2033.9	1969.4	1825.5	1835.4	1815.6
62.5°	2286.8	1979.3	1855.3	1825.5	1800.7	1840.4	1840.4	1756.1	1632.0	1642.0	1622.1
65°	1944.6	1835.4	1656.8	1651.9	1642.0	1651.9	1612.2	1522.9	1413.8	1369.1	1374.1
67.5°	1766.0	1696.5	1522.9	1478.3	1448.5	1443.5	1369.1	1284.8	1235.2	1195.5	1190.5
70°	1547.7	1493.1	1364.2	1304.6	1274.9	1205.4	1131.0	1076.5	1007.0	987.2	1007.0
72.5°	1225.3	1220.3	1170.7	1106.2	1041.7	987.2	922.7	848.3	783.8	768.9	734.2
75°	848.3	858.2	868.1	858.2	803.6	734.2	659.8	600.2	520.9	476.2	466.3
77.5°	555.6	570.5	585.4	565.5	530.8	466.3	416.7	342.3	282.8	248.0	243.1
80°	406.8	426.6	436.5	421.7	382.0	332.4	277.8	218.3	173.6	143.9	143.9
82.5°	312.5	332.4	342.3	317.5	277.8	238.1	198.4	153.8	119.1	94.3	89.3
85°	109.1	104.2	124.0	129.0	153.8	143.9	119.1	89.3	69.4	49.6	44.6
87.5°	29.8	29.8	34.7	34.7	29.8	24.8	24.8	24.8	19.8	14.9	14.9
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)