

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: P647815

Luminaire Tested: **GALN-SA3A-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10793.7 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

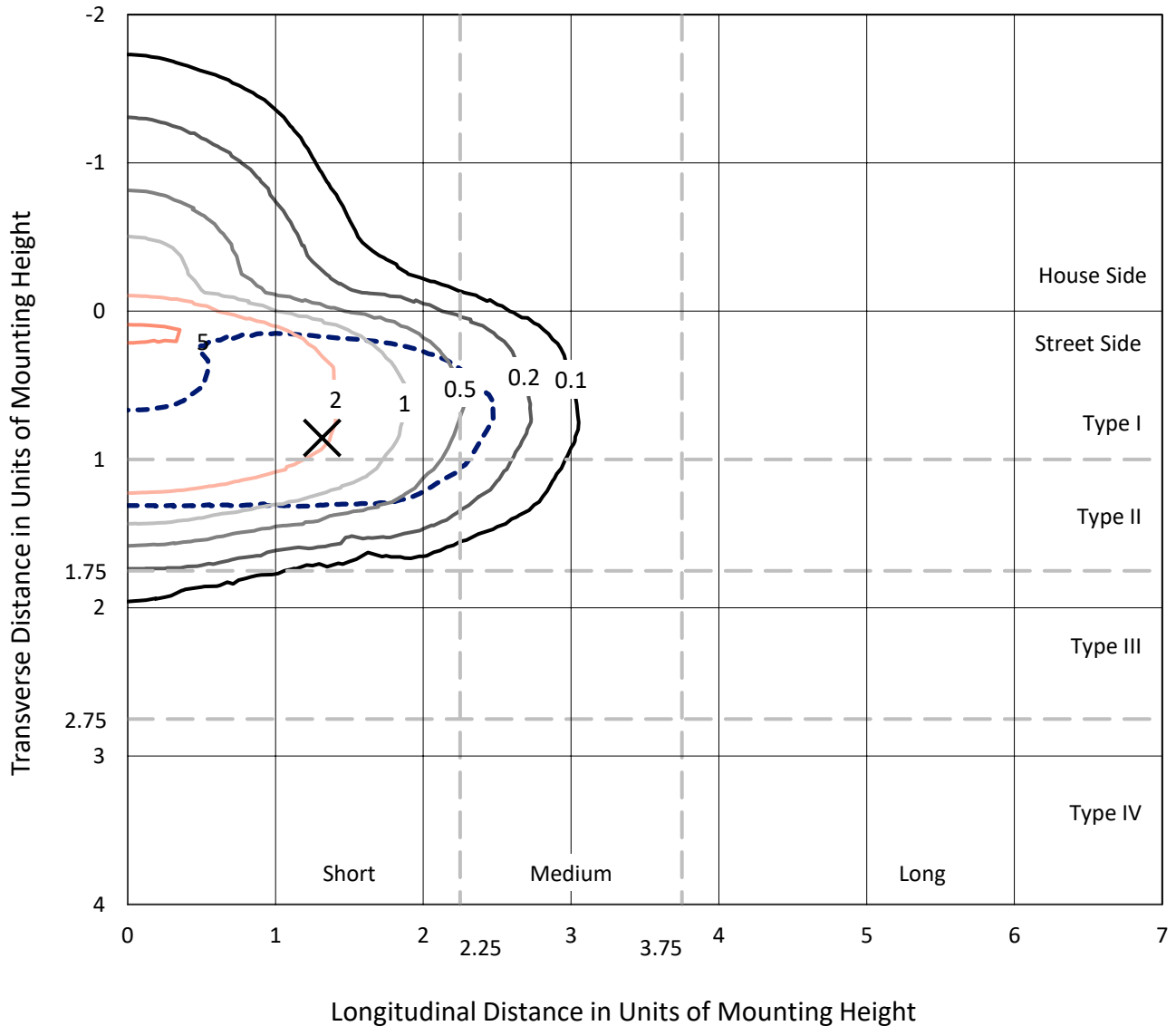
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647815
 CATALOG NUMBER: GALN-SA3A-835-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

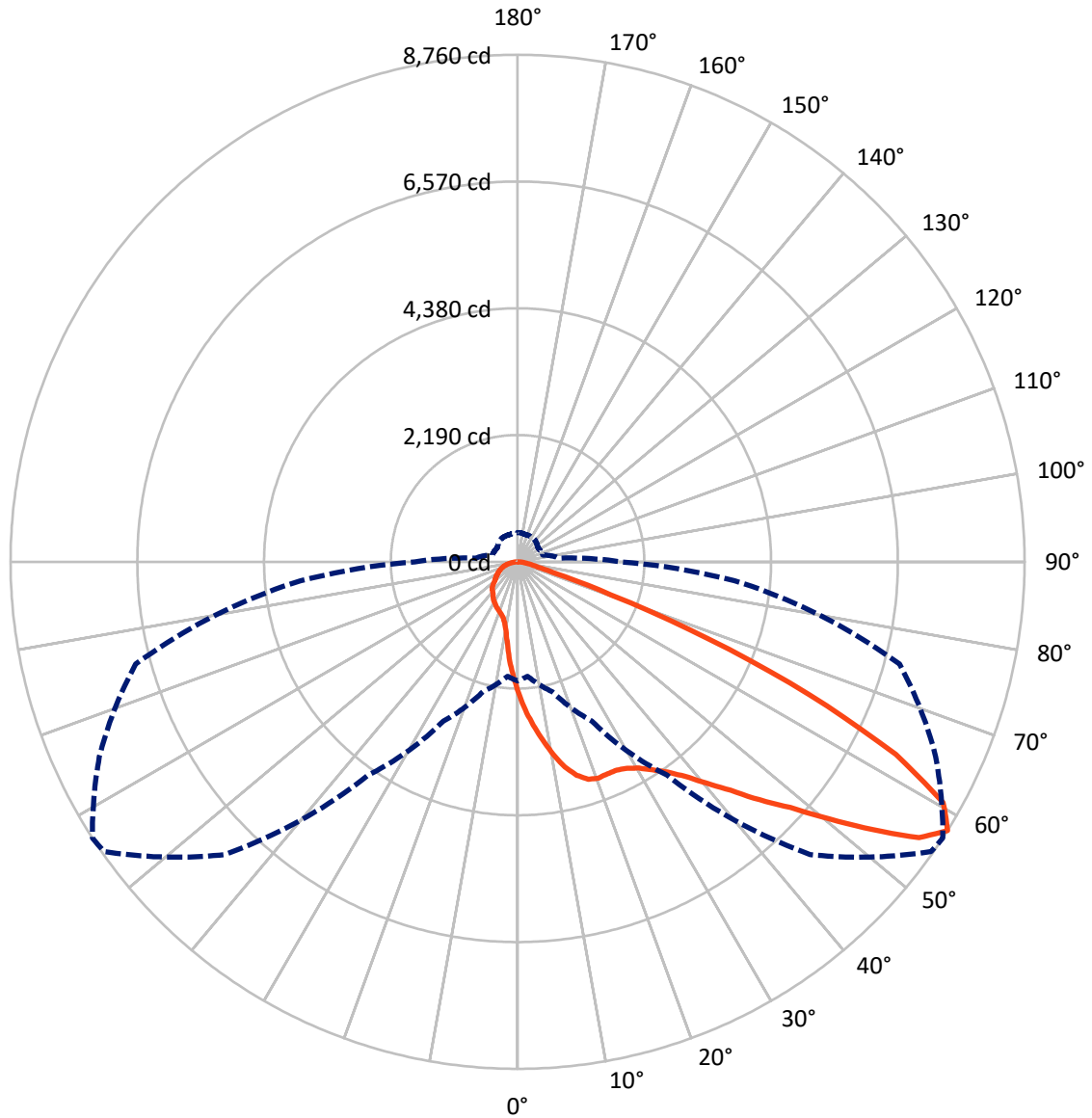
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647815
CATALOG NUMBER: GALN-SA3A-835-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P647815
 CATALOG NUMBER: GALN-SA3A-835-U-AFL

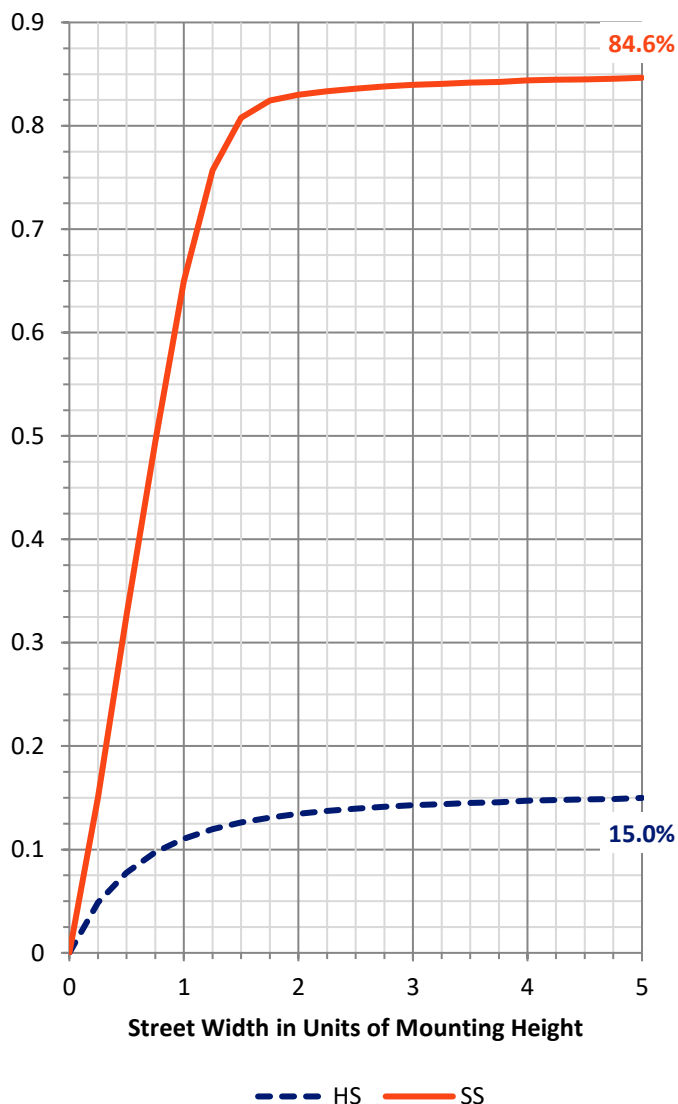
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1641.4	0.0	1641.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	9152.2	0.0	9152.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	10793.7	0.0	10793.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	2.0
10°-20°	642.3	6.0
20°-30°	1066.5	9.9
30°-40°	1606.5	14.9
40°-50°	2412.0	22.3
50°-60°	2703.5	25.0
60°-70°	1582.2	14.7
70°-80°	468.0	4.3
80°-90°	94.6	0.9
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°	10793.7	100.0
0°-180°	10793.7	100.0

Coefficient of Utilization

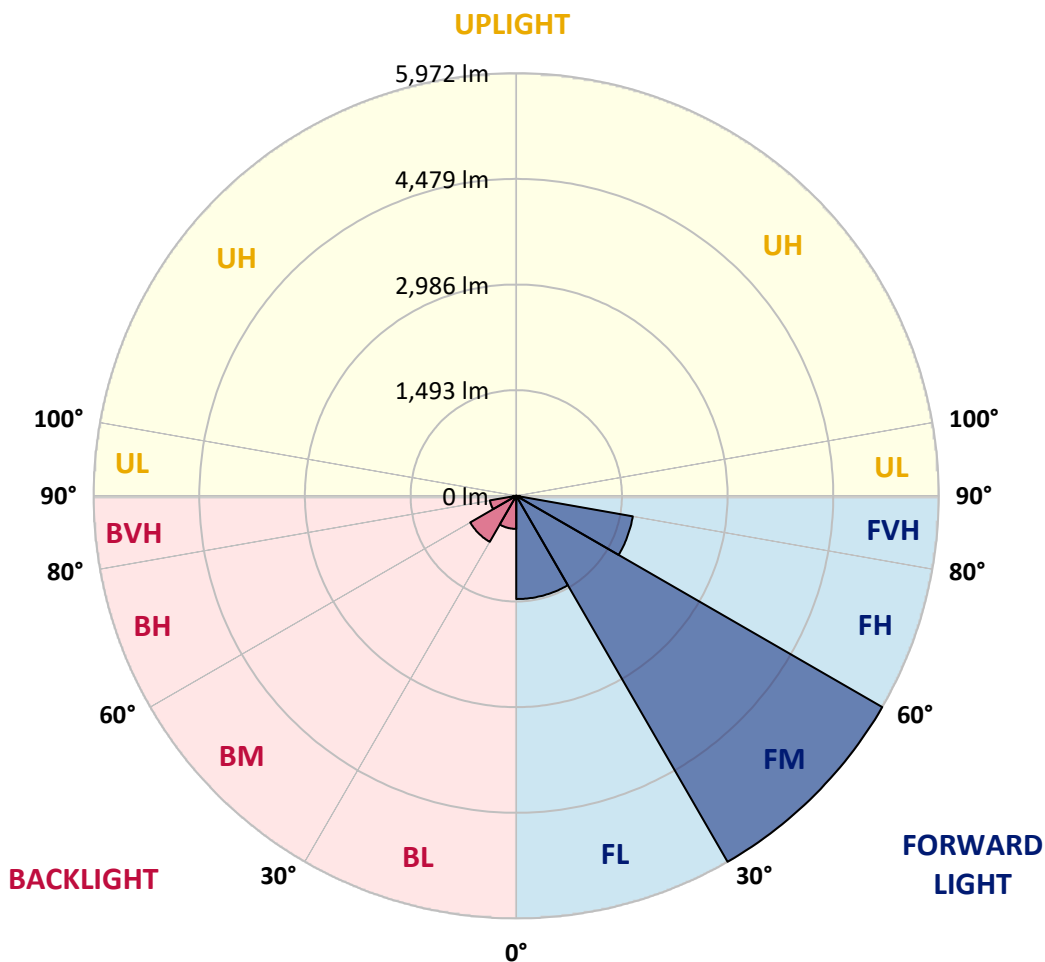


REPORT NUMBER: P647815
 CATALOG NUMBER: GALN-SA3A-835-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1459.1	13.5			
FM (30°-60°)	5971.5	55.3			
FH (60°-80°)	1672.6	15.5			G1/1800
FVH (80°-90°)	49.1	0.5			G1/100
BL (0°-30°)	467.7	4.3	B1/500		
BM (30°-60°)	750.5	7.0	B1/1000		
BH (60°-80°)	377.7	3.5	B1/500		G1/500
BVH (80°-90°)	45.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P647815
 CATALOG NUMBER: GALN-SA3A-835-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6
2.5°	2817.7	2786.9	2762.7	2741.4	2713.7	2638.6	2563.6	2562.4	2502.8	2410.6	2316.0
5°	3276.8	3235.4	3240.8	3174.5	3108.4	2999.7	2840.7	2832.4	2705.4	2532.9	2357.5
7.5°	3575.7	3576.4	3559.8	3521.9	3450.4	3327.0	3146.8	3106.0	2929.4	2667.6	2404.7
10°	3560.4	3576.4	3604.1	3636.6	3658.4	3597.6	3433.4	3383.7	3153.8	2830.7	2457.3
12.5°	3355.9	3380.8	3420.4	3501.9	3633.7	3734.0	3677.9	3637.7	3413.9	2993.2	2515.2
15°	3228.3	3243.1	3265.0	3319.9	3461.7	3702.2	3847.5	3826.2	3659.0	3176.9	2580.1
17.5°	3189.3	3204.1	3211.2	3244.8	3345.9	3592.2	3914.3	3952.1	3876.5	3345.9	2645.8
20°	3228.3	3235.4	3235.4	3255.5	3334.6	3527.9	3911.3	3987.5	4054.9	3548.6	2707.2
22.5°	3330.6	3333.5	3329.3	3336.4	3395.6	3545.6	3883.5	3978.1	4199.1	3720.5	2755.1
25°	3496.6	3501.3	3474.1	3457.6	3500.7	3623.6	3898.9	3985.8	4311.9	3884.8	2786.9
27.5°	3685.0	3690.9	3657.9	3619.4	3639.5	3719.9	3959.2	4037.1	4396.4	4046.6	2807.1
30°	3916.0	3918.4	3862.9	3816.8	3803.8	3863.5	4062.0	4134.6	4501.5	4237.4	2837.2
32.5°	4152.4	4170.1	4098.6	4033.6	4011.8	4030.1	4213.9	4284.1	4626.8	4442.5	2885.7
35°	4473.8	4476.7	4391.1	4311.9	4239.9	4263.4	4408.2	4459.0	4799.9	4679.4	2954.2
37.5°	4875.0	4902.1	4784.0	4636.3	4547.7	4513.4	4643.3	4698.9	5042.8	4970.1	3057.5
40°	5320.5	5330.5	5229.5	5137.3	4975.4	4876.1	4965.9	5026.2	5342.3	5316.9	3177.5
42.5°	5600.5	5622.4	5630.1	5620.6	5498.9	5332.3	5366.5	5394.9	5696.8	5642.5	3300.4
45°	5695.1	5727.6	5837.4	6070.2	6083.2	5919.0	5839.2	5866.4	6083.2	5971.0	3418.0
47.5°	5538.5	5594.0	5796.7	6274.1	6631.5	6643.9	6403.5	6343.8	6435.4	6243.3	3503.1
50°	5133.7	5145.6	5455.8	6147.0	6888.5	7337.0	7088.3	6977.2	6769.8	6444.8	3561.6
52.5°	4507.5	4521.0	4781.0	5556.8	6730.2	7821.5	7889.4	7690.9	7109.5	6601.4	3599.9
55°	3345.9	3424.5	3710.5	4460.2	5979.8	7776.0	8526.3	8413.5	7520.2	6725.5	3660.2
57.5°	2057.3	1985.2	2324.3	3034.5	4497.4	7150.9	8723.1	8759.7	7972.1	6829.5	3761.2
60°	946.5	960.7	1100.7	1565.1	2741.4	5594.0	8216.2	8447.8	8222.0	6825.9	3786.7
62.5°	652.3	639.3	603.8	687.2	1250.2	3537.9	6940.0	7332.2	7721.0	6613.8	3685.7
65°	583.2	570.2	501.6	478.6	574.3	1542.0	5045.1	5540.3	6500.9	6078.5	3433.9
67.5°	544.7	527.0	456.1	411.2	410.1	613.9	2974.9	3571.0	4821.8	5139.1	2975.5
70°	504.6	490.4	420.1	370.4	349.2	385.8	1307.5	1711.6	3130.8	3703.4	2317.8
72.5°	464.4	447.9	384.6	331.4	303.7	288.9	501.0	651.7	1769.0	2220.4	1421.0
75°	405.9	397.6	343.9	300.1	270.0	233.4	317.9	362.8	846.1	1019.8	713.2
77.5°	355.1	346.2	305.4	262.3	240.5	189.6	225.7	246.4	356.9	413.6	322.0
80°	260.0	268.8	257.6	231.6	214.5	148.9	151.8	169.0	212.1	234.6	196.8
82.5°	164.8	181.4	198.5	178.4	162.5	117.6	105.2	111.7	144.8	153.6	87.5
85°	69.1	70.3	115.2	108.7	92.8	69.7	63.2	66.8	77.4	81.0	40.8
87.5°	26.6	26.0	40.8	37.8	29.0	20.1	20.1	22.5	30.7	28.3	13.0
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: P647815
 CATALOG NUMBER: GALN-SA3A-835-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6
2.5°	2275.3	2233.4	2150.0	2046.7	1971.0	1885.9	1810.9	1757.1	1737.1	1727.6	1709.8
5°	2273.5	2190.8	2018.3	1837.5	1692.1	1543.3	1417.4	1335.9	1328.8	1274.4	1269.1
7.5°	2274.1	2147.7	1872.9	1607.1	1385.5	1233.1	1129.1	1101.9	1069.4	1061.1	1065.3
10°	2275.9	2092.7	1717.0	1379.0	1164.6	1064.6	1025.7	1015.1	1016.3	1019.8	1020.4
12.5°	2278.3	2039.6	1555.0	1205.9	1040.5	999.1	995.0	1004.4	1014.5	1022.1	1023.9
15°	2281.2	1978.7	1397.3	1066.4	978.4	974.9	988.5	1004.4	1018.6	1029.8	1031.6
17.5°	2277.7	1907.8	1265.0	980.8	944.1	961.3	983.8	1003.8	1016.8	1027.5	1028.6
20°	2269.4	1828.6	1137.4	920.5	922.9	950.6	974.9	993.8	1008.0	1013.3	1017.4
22.5°	2237.5	1734.1	1026.3	873.8	897.5	935.9	964.8	976.1	960.1	948.9	951.8
25°	2183.2	1611.2	922.9	836.0	874.5	915.2	944.8	917.6	904.6	899.8	902.2
27.5°	2115.2	1476.5	844.9	796.5	844.9	892.2	883.9	879.2	873.3	865.6	867.3
30°	2041.9	1344.7	778.7	765.7	813.0	840.2	843.7	851.4	844.9	833.1	837.8
32.5°	1973.9	1220.7	728.5	739.7	790.5	786.4	813.0	821.8	791.7	752.1	753.9
35°	1916.1	1105.4	690.7	714.3	752.1	753.9	780.5	749.8	717.3	698.4	699.5
37.5°	1872.4	1015.6	665.9	692.5	703.1	725.5	711.4	695.4	691.3	678.3	678.9
40°	1846.4	937.1	649.9	675.3	673.5	688.9	643.4	659.4	665.3	661.2	661.7
42.5°	1820.4	881.5	633.4	651.7	651.1	621.0	610.9	624.5	639.9	641.7	640.5
45°	1799.6	838.4	616.2	615.7	627.5	580.2	577.2	585.5	607.4	618.0	617.4
47.5°	1776.6	802.3	590.2	573.7	577.2	554.8	550.1	553.6	580.2	597.4	602.0
50°	1747.7	766.3	557.7	535.3	520.5	531.2	532.4	532.9	559.5	579.0	583.2
52.5°	1724.6	739.2	520.5	504.0	486.2	509.9	518.7	519.9	535.9	551.9	554.8
55°	1738.3	723.8	483.9	472.1	456.1	488.0	505.2	507.5	511.1	522.9	524.7
57.5°	1779.0	727.3	454.4	439.0	427.2	462.0	491.0	492.7	490.4	504.6	506.9
60°	1791.4	725.5	432.5	402.4	395.3	434.3	470.3	473.9	473.2	493.9	498.1
62.5°	1739.4	703.1	410.6	371.6	366.9	405.9	441.4	455.5	458.5	488.0	493.4
65°	1617.1	657.0	381.7	339.1	339.1	375.8	413.6	433.1	441.4	480.9	486.9
67.5°	1455.8	602.7	352.1	311.4	310.2	346.8	384.1	404.1	417.1	470.9	474.4
70°	1208.2	529.4	315.5	281.3	281.3	314.3	348.0	372.2	391.1	452.0	452.0
72.5°	827.8	440.2	271.2	247.0	247.6	278.3	312.6	339.7	362.2	414.2	415.4
75°	523.5	343.9	222.8	210.3	212.7	241.6	277.1	305.4	350.4	409.4	411.2
77.5°	278.3	241.6	177.3	174.3	177.3	203.8	243.4	282.4	351.6	355.1	349.2
80°	180.2	171.3	140.0	134.1	135.3	164.3	216.8	268.3	282.4	286.0	273.0
82.5°	98.1	108.7	99.3	93.3	93.3	128.2	184.9	213.3	202.6	168.4	160.7
85°	42.0	50.8	51.4	44.9	43.1	79.2	124.1	116.4	108.1	103.4	102.2
87.5°	11.8	16.5	16.5	12.4	9.5	21.8	24.8	7.1	0.0	0.6	1.2
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)