

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: P646825

Luminaire Tested: **GALN-SA3C-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646825
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-SA3C-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16594.1 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

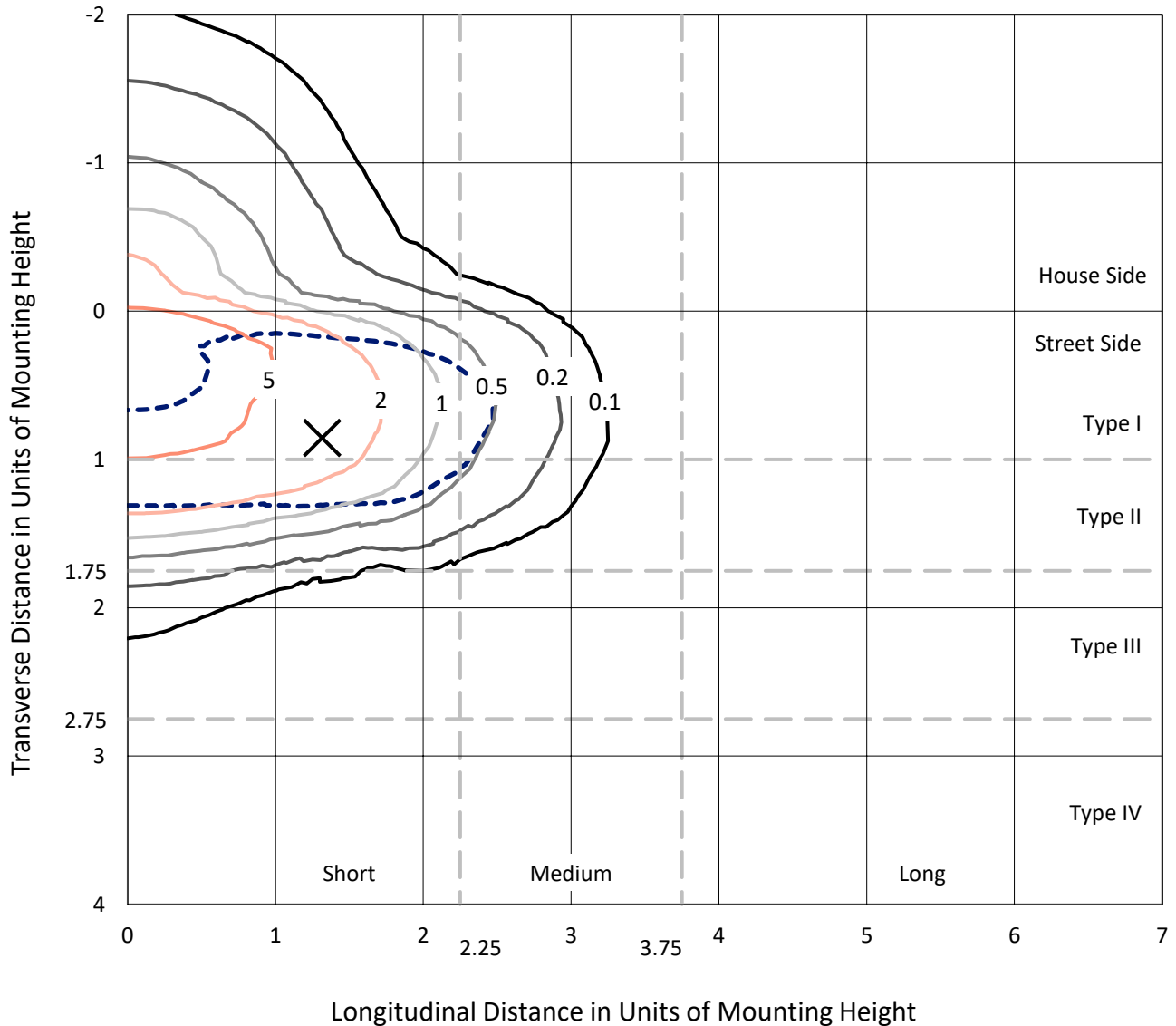
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646825
 CATALOG NUMBER: GALN-SA3C-835-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

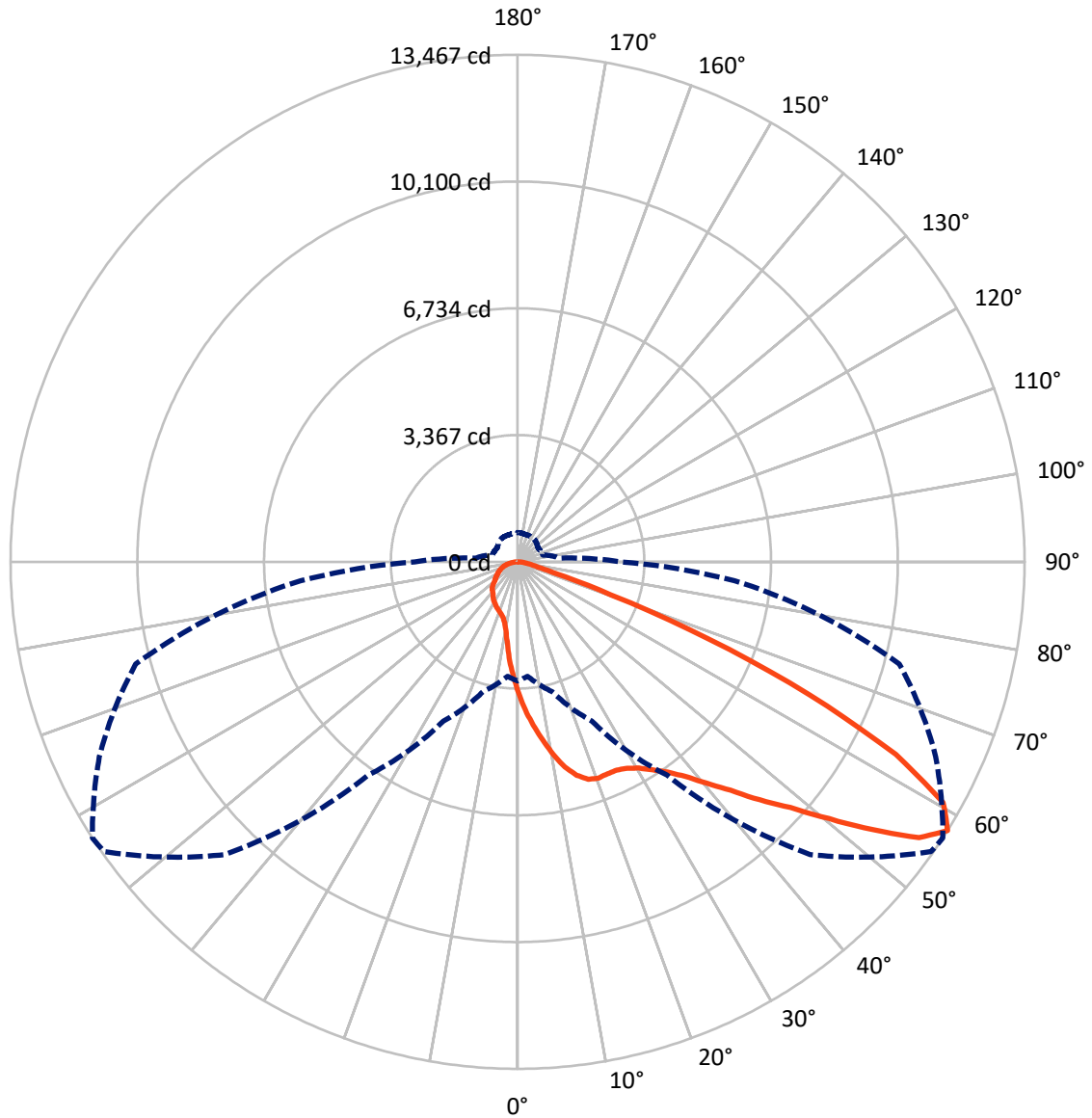
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

REPORT NUMBER: P646825
CATALOG NUMBER: GALN-SA3C-835-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P646825
 CATALOG NUMBER: GALN-SA3C-835-U-AFL

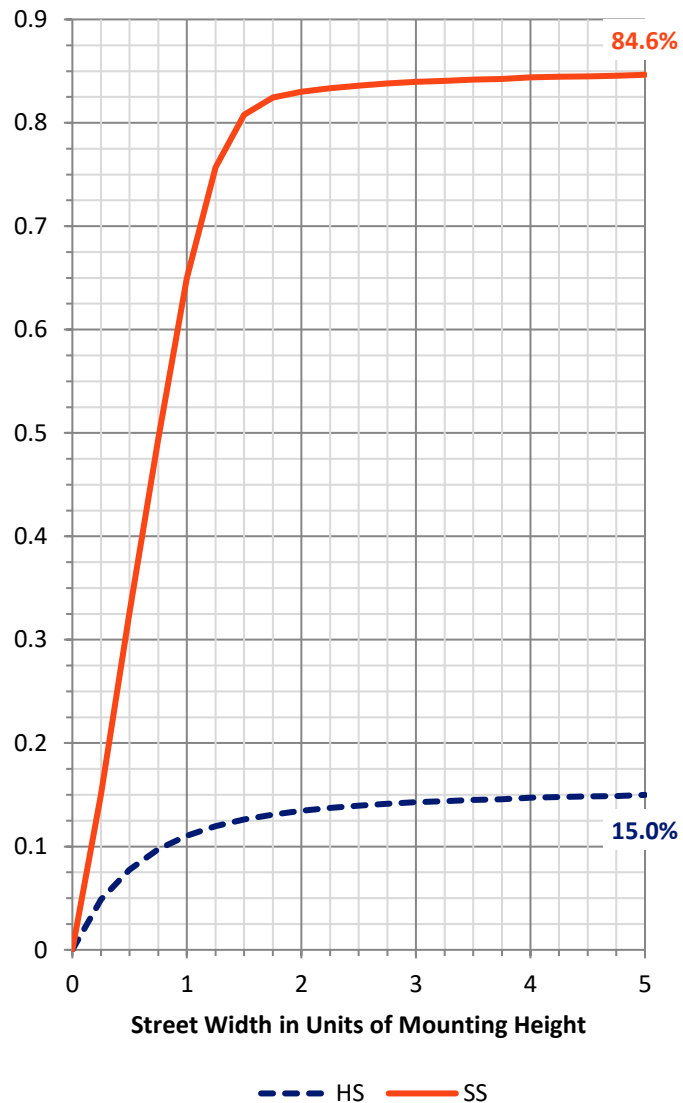
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2523.5	0.0	2523.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	14070.6	0.0	14070.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	16594.1	0.0	16594.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	2.0
10°-20°	987.4	6.0
20°-30°	1639.7	9.9
30°-40°	2469.8	14.9
40°-50°	3708.2	22.3
50°-60°	4156.4	25.0
60°-70°	2432.5	14.7
70°-80°	719.5	4.3
80°-90°	145.4	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°	16594.1	100.0
0°-180°	16594.1	100.0

Coefficient of Utilization

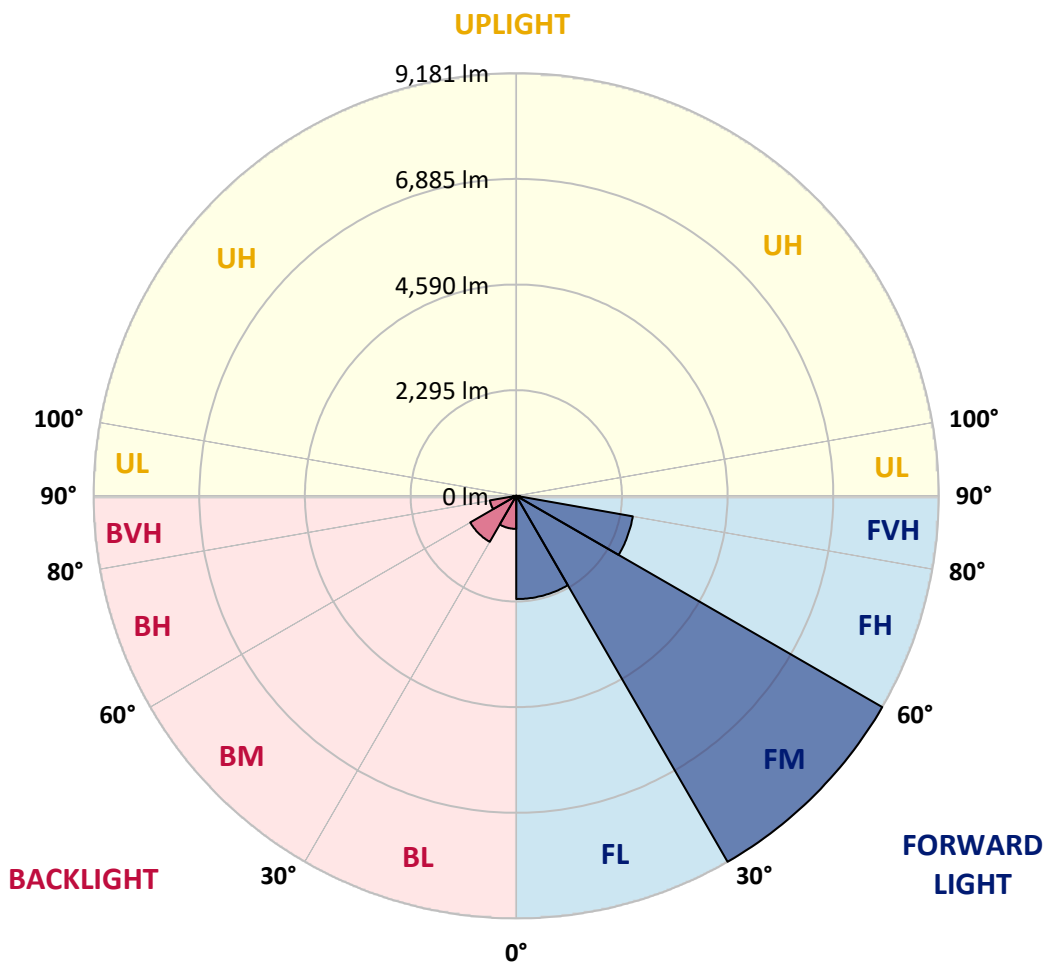


REPORT NUMBER: P646825
 CATALOG NUMBER: GALN-SA3C-835-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2243.1	13.5			
FM (30°-60°)	9180.6	55.3			
FH (60°-80°)	2571.4	15.5			G2/5000
FVH (80°-90°)	75.5	0.5			G1/100
BL (0°-30°)	719.0	4.3	B2/1000		
BM (30°-60°)	1153.8	7.0	B2/2500		
BH (60°-80°)	580.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	70.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P646825

CATALOG NUMBER: GALN-SA3C-835-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	4331.9	4284.7	4247.5	4214.7	4172.1	4056.6	3941.3	3939.5	3847.7	3706.0	3560.7
5°	5037.7	4974.1	4982.3	4880.5	4778.8	4611.7	4367.3	4354.6	4159.3	3894.1	3624.3
7.5°	5497.3	5498.2	5472.8	5414.7	5304.7	5114.9	4837.8	4775.2	4503.6	4101.2	3696.9
10°	5473.7	5498.2	5540.9	5590.9	5624.4	5531.0	5278.4	5202.1	4848.7	4351.9	3777.8
12.5°	5159.4	5197.6	5258.4	5383.8	5586.3	5740.7	5654.4	5592.7	5248.4	4601.7	3866.8
15°	4963.2	4985.9	5019.5	5104.0	5322.0	5691.7	5915.2	5882.4	5625.4	4884.2	3966.8
17.5°	4903.2	4925.9	4936.9	4988.6	5144.0	5522.7	6017.8	6075.9	5959.6	5144.0	4067.6
20°	4963.2	4974.1	4974.1	5005.0	5126.7	5423.8	6013.3	6130.4	6234.0	5455.6	4162.0
22.5°	5120.4	5124.9	5118.5	5129.4	5220.3	5451.0	5970.5	6115.9	6455.6	5719.9	4235.6
25°	5375.6	5382.9	5341.1	5315.6	5382.0	5570.9	5994.2	6127.7	6629.1	5972.4	4284.7
27.5°	5665.4	5674.5	5623.6	5564.5	5595.4	5719.0	6086.8	6206.8	6759.0	6221.2	4315.6
30°	6020.5	6024.2	5938.7	5867.9	5847.9	5939.7	6244.9	6356.6	6920.7	6514.6	4361.9
32.5°	6383.9	6411.1	6301.2	6201.3	6167.7	6195.8	6478.3	6586.4	7113.2	6829.9	4436.4
35°	6878.0	6882.6	6750.9	6629.1	6518.3	6554.6	6777.2	6855.3	7379.4	7194.1	4541.7
37.5°	7494.8	7536.5	7354.9	7127.8	6991.6	6938.9	7138.7	7224.1	7752.7	7641.0	4700.7
40°	8179.7	8195.1	8039.8	7898.0	7649.2	7496.6	7634.6	7727.3	8213.3	8174.2	4885.1
42.5°	8610.2	8643.9	8655.7	8641.1	8454.0	8197.9	8250.5	8294.1	8758.2	8674.7	5074.0
45°	8755.6	8805.5	8974.4	9332.3	9352.3	9099.8	8977.2	9019.0	9352.3	9179.7	5254.8
47.5°	8514.8	8600.2	8911.8	9645.7	10195.3	10214.4	9844.7	9752.9	9893.7	9598.5	5385.6
50°	7892.6	7910.8	8387.7	9450.4	10590.4	11279.8	10897.4	10726.6	10407.9	9908.2	5475.5
52.5°	6929.8	6950.7	7350.3	8543.0	10347.0	12024.7	12129.1	11823.9	10930.1	10148.9	5534.6
55°	5144.0	5264.8	5704.4	6857.1	9193.4	11954.8	13108.4	12934.8	11561.5	10339.7	5627.2
57.5°	3162.9	3052.1	3573.5	4665.3	6914.4	10993.7	13410.8	13467.1	12256.3	10499.6	5782.5
60°	1455.2	1477.0	1692.2	2406.2	4214.7	8600.2	12631.4	12987.5	12640.5	10494.2	5821.6
62.5°	1002.8	982.8	928.3	1056.4	1922.0	5439.2	10669.5	11272.6	11870.3	10168.0	5666.3
65°	896.5	876.6	771.2	735.8	882.9	2370.8	7756.4	8517.6	9994.5	9345.1	5279.3
67.5°	837.5	810.2	701.3	632.2	630.4	943.7	4573.5	5490.1	7413.1	7900.8	4574.4
70°	775.7	754.0	645.8	569.6	536.8	593.1	2010.2	2631.5	4813.3	5693.5	3563.4
72.5°	713.9	688.5	591.3	509.6	466.9	444.2	770.3	1001.9	2719.6	3413.6	2184.6
75°	624.1	611.3	528.7	461.4	415.1	358.8	488.7	557.7	1300.7	1567.8	1096.4
77.5°	545.9	532.3	469.6	403.3	369.7	291.6	347.0	378.8	548.6	635.9	495.0
80°	399.6	413.3	396.0	356.1	329.7	228.9	233.4	259.8	326.1	360.6	302.5
82.5°	253.5	278.8	305.2	274.3	249.8	180.8	161.7	171.7	222.5	236.2	134.4
85°	106.3	108.1	177.1	167.2	142.6	107.2	97.2	102.7	119.0	124.4	62.6
87.5°	40.9	39.9	62.6	58.1	44.5	30.9	30.9	34.5	47.2	43.6	20.0
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: P646825
 CATALOG NUMBER: GALN-SA3C-835-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	3498.1	3433.5	3305.4	3146.5	3030.2	2899.4	2784.1	2701.4	2670.6	2656.0	2628.8
5°	3495.3	3368.2	3103.0	2825.0	2601.5	2372.6	2179.1	2053.8	2042.8	1959.3	1951.2
7.5°	3496.3	3301.8	2879.5	2470.7	2130.1	1895.7	1735.8	1694.1	1644.1	1631.4	1637.7
10°	3498.9	3217.3	2639.6	2120.1	1790.3	1636.9	1576.9	1560.5	1562.3	1567.8	1568.7
12.5°	3502.6	3135.6	2390.7	1853.9	1599.6	1536.0	1529.7	1544.2	1559.7	1571.4	1574.1
15°	3507.1	3042.0	2148.2	1639.6	1504.2	1498.7	1519.6	1544.2	1566.0	1583.2	1586.0
17.5°	3501.7	2933.0	1944.7	1507.8	1451.5	1477.9	1512.4	1543.3	1563.3	1579.6	1581.4
20°	3489.0	2811.4	1748.6	1415.2	1418.9	1461.5	1498.7	1527.9	1549.6	1557.8	1564.2
22.5°	3439.9	2666.0	1577.8	1343.5	1379.8	1438.8	1483.3	1500.6	1476.0	1458.8	1463.3
25°	3356.3	2477.1	1418.9	1285.3	1344.3	1407.1	1452.5	1410.7	1390.7	1383.4	1387.0
27.5°	3251.9	2270.0	1298.9	1224.5	1298.9	1371.6	1358.9	1351.6	1342.5	1330.7	1333.4
30°	3139.3	2067.4	1197.2	1177.2	1249.9	1291.6	1297.1	1308.9	1298.9	1280.8	1288.0
32.5°	3034.8	1876.6	1120.0	1137.2	1215.4	1209.0	1249.9	1263.5	1217.2	1156.3	1159.1
35°	2945.8	1699.5	1061.8	1098.2	1156.3	1159.1	1199.9	1152.7	1102.7	1073.6	1075.5
37.5°	2878.5	1561.5	1023.7	1064.6	1080.9	1115.5	1093.6	1069.1	1062.8	1042.8	1043.7
40°	2838.6	1440.6	999.2	1038.3	1035.5	1059.2	989.2	1013.8	1022.8	1016.4	1017.4
42.5°	2798.6	1355.2	973.7	1001.9	1001.0	954.6	939.2	960.1	983.8	986.5	984.6
45°	2766.8	1289.0	947.4	946.5	964.7	892.0	887.5	900.1	933.8	950.1	949.2
47.5°	2731.4	1233.5	907.4	882.0	887.5	852.9	845.6	851.1	892.0	918.3	925.6
50°	2686.9	1178.1	857.5	822.9	800.2	816.6	818.4	819.3	860.2	890.2	896.5
52.5°	2651.5	1136.4	800.2	774.9	747.6	783.9	797.6	799.4	823.9	848.4	852.9
55°	2672.4	1112.7	743.9	725.8	701.3	750.3	776.7	780.3	785.7	803.9	806.6
57.5°	2735.0	1118.2	698.5	674.9	656.7	710.3	754.8	757.6	754.0	775.7	779.4
60°	2754.1	1115.5	664.9	618.6	607.7	667.7	723.0	728.5	727.6	759.4	765.8
62.5°	2674.2	1080.9	631.3	571.4	564.1	624.1	678.5	700.3	704.9	750.3	758.5
65°	2486.2	1010.1	586.8	521.4	521.4	577.7	635.9	665.8	678.5	739.4	748.5
67.5°	2238.1	926.5	541.4	478.7	476.8	533.2	590.5	621.3	641.3	724.0	729.4
70°	1857.6	813.9	485.1	432.4	432.4	483.3	535.0	572.3	601.3	694.9	694.9
72.5°	1272.6	676.7	416.9	379.7	380.6	427.8	480.5	522.3	556.8	636.7	638.5
75°	804.8	528.7	342.5	323.4	327.0	371.5	426.0	469.6	538.6	629.5	632.2
77.5°	427.8	371.5	272.5	267.9	272.5	313.4	374.3	434.2	540.5	545.9	536.8
80°	277.0	263.4	215.2	206.2	208.0	252.5	333.4	412.4	434.2	439.7	419.7
82.5°	150.8	167.2	152.6	143.5	143.5	197.1	284.3	327.9	311.6	258.9	247.0
85°	64.5	78.1	79.0	69.1	66.3	121.8	190.7	178.9	166.2	158.9	157.1
87.5°	18.2	25.4	25.4	19.1	14.6	33.6	38.1	10.9	0.0	0.9	1.8
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)