

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: P648047

Luminaire Tested: **GALN-SA7A-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20515.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

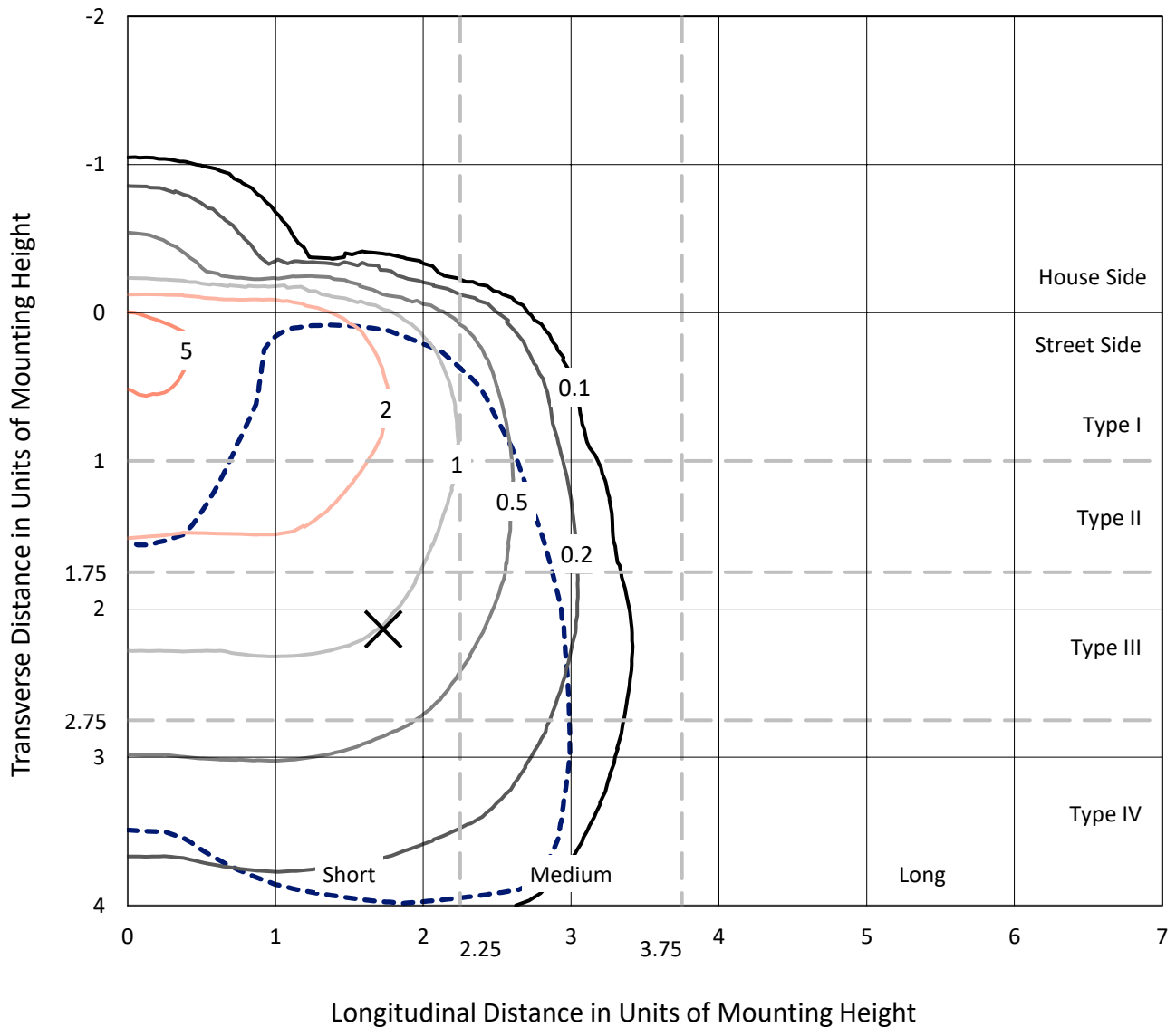
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648047
 CATALOG NUMBER: GALN-SA7A-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

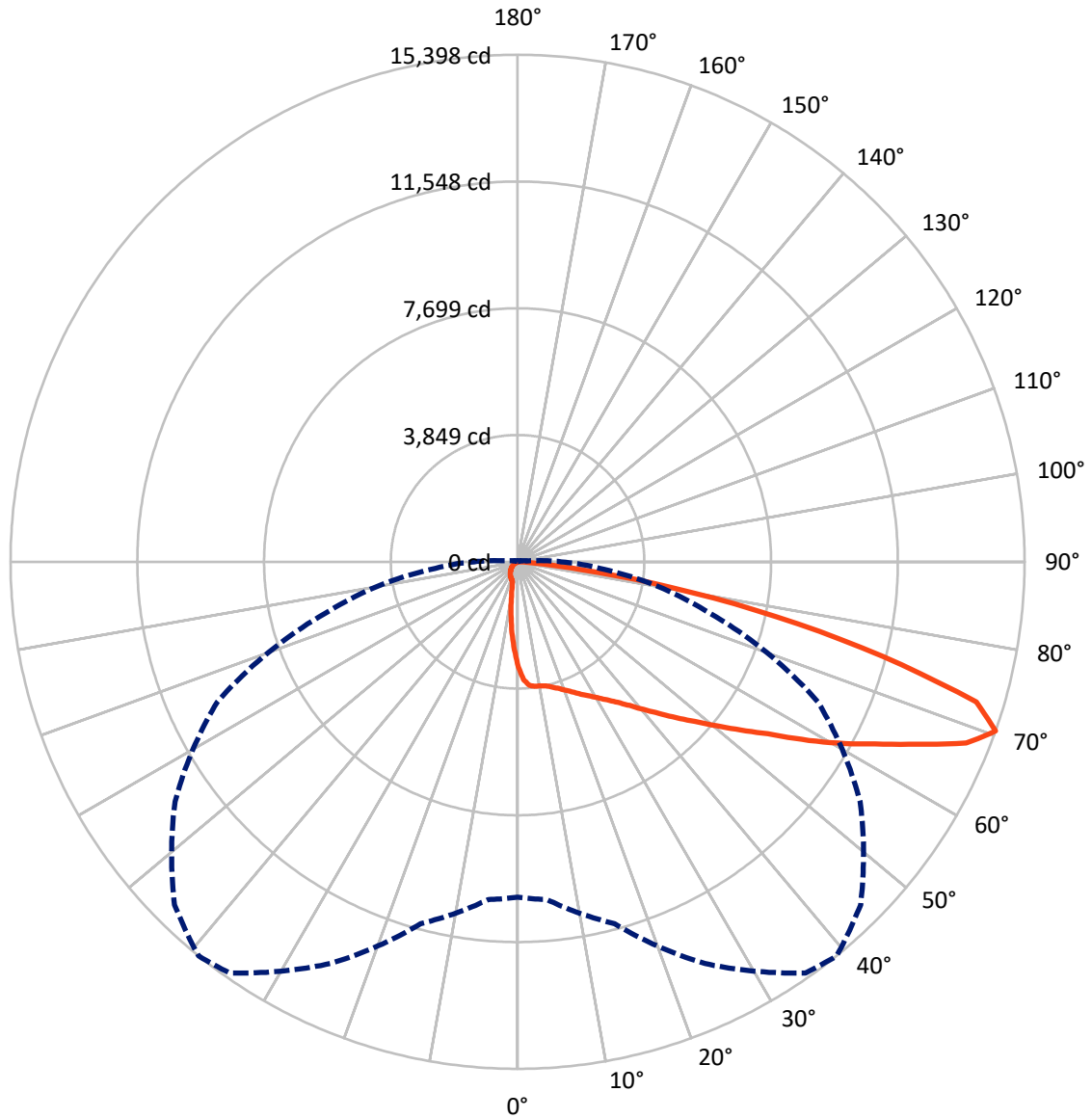
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P648047
CATALOG NUMBER: GALN-SA7A-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P648047
 CATALOG NUMBER: GALN-SA7A-835-U-SL4-HSS

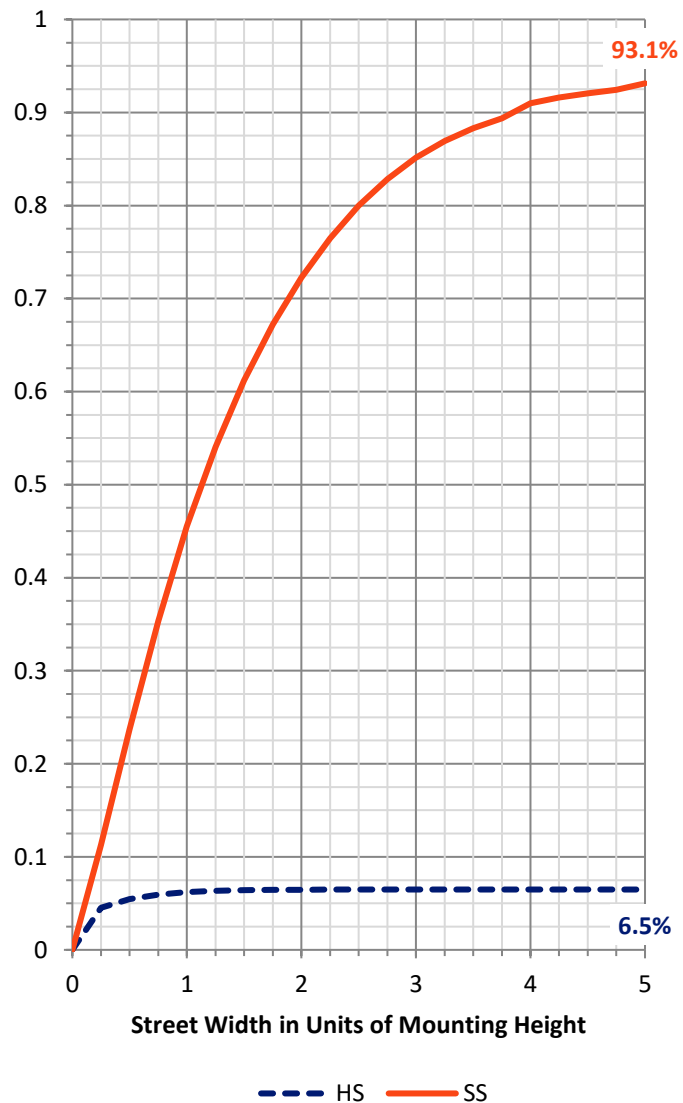
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1337.7	0.0	1337.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	19177.7	0.0	19177.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	20515.4	0.0	20515.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	1.3
10°-20°	709.5	3.5
20°-30°	1188.7	5.8
30°-40°	1843.5	9.0
40°-50°	2921.3	14.2
50°-60°	4282.2	20.9
60°-70°	5488.8	26.8
70°-80°	3449.0	16.8
80°-90°	359.3	1.8
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°	20515.4	100.0
0°-180°	20515.4	100.0

Coefficient of Utilization



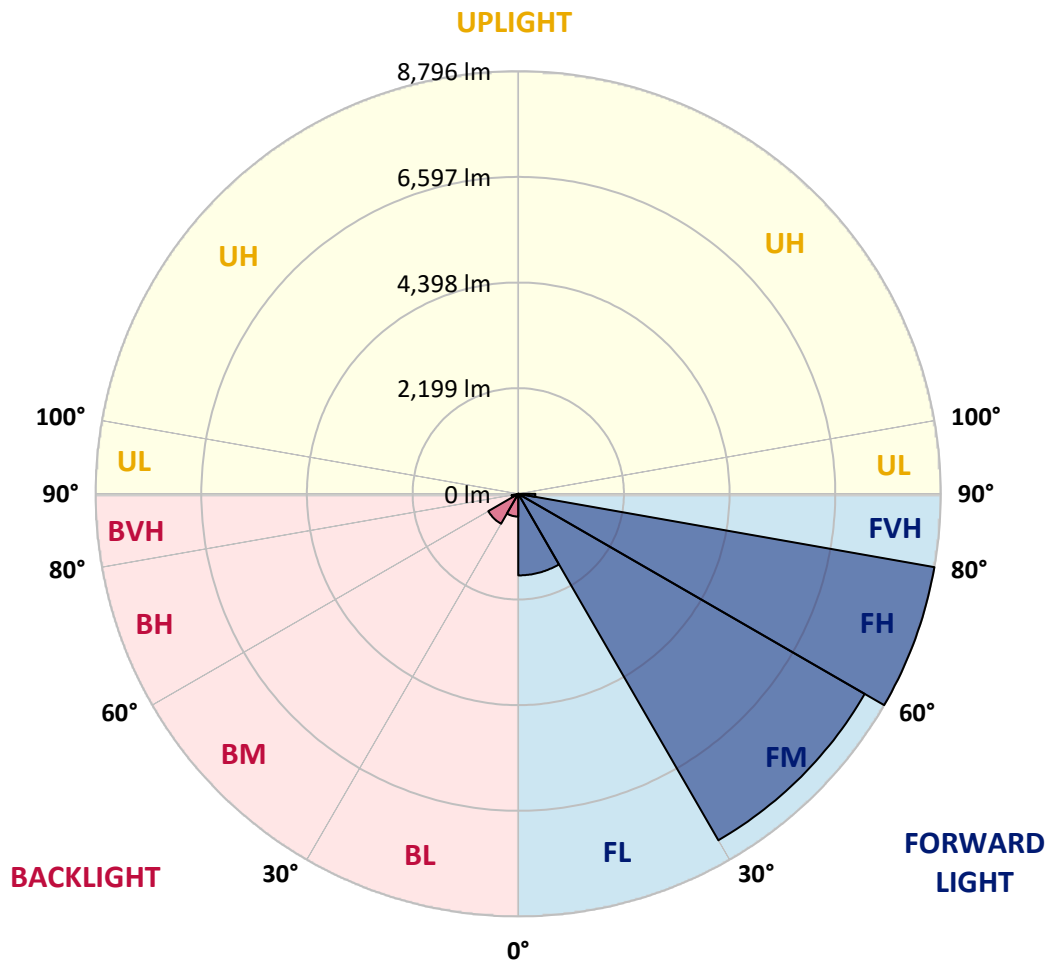
REPORT NUMBER: P648047
 CATALOG NUMBER: GALN-SA7A-835-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.5	8.3			
FM (30°-60°)	8327.1	40.6			
FH (60°-80°)	8796.3	42.9			G4/12000
FVH (80°-90°)	356.7	1.7			G3/500
BL (0°-30°)	473.7	2.3	B1/500		
BM (30°-60°)	719.9	3.5	B1/1000		
BH (60°-80°)	141.5	0.7	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P648047

CATALOG NUMBER: GALN-SA7A-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1
2.5°	3698.8	3686.4	3669.8	3650.5	3595.4	3585.7	3552.6	3482.3	3398.2	3329.3	3234.2
5°	3873.9	3880.8	3868.3	3833.9	3793.9	3770.5	3729.1	3620.2	3511.3	3372.1	3216.3
7.5°	3913.8	3927.6	3912.5	3879.4	3840.8	3816.0	3782.9	3689.1	3562.3	3403.8	3190.1
10°	3909.7	3926.3	3916.6	3886.3	3854.6	3831.1	3795.3	3720.8	3618.8	3452.0	3198.3
12.5°	3902.8	3924.9	3923.5	3908.3	3882.1	3864.2	3842.2	3776.0	3680.9	3522.3	3243.8
15°	3883.5	3911.1	3935.9	3948.3	3949.7	3949.7	3922.1	3851.8	3760.8	3614.7	3303.1
17.5°	3891.7	3923.5	3985.5	4021.3	4046.2	4043.4	4014.4	3938.6	3838.0	3709.8	3365.2
20°	3942.8	3985.5	4072.4	4144.0	4168.8	4160.6	4122.0	4033.8	3919.4	3791.1	3425.8
22.5°	4068.2	4106.8	4215.8	4299.8	4317.8	4295.7	4240.6	4120.6	4017.3	3879.4	3498.9
25°	4255.8	4301.3	4401.9	4465.3	4465.3	4452.8	4375.6	4235.1	4127.5	4002.1	3594.0
27.5°	4483.2	4521.8	4621.0	4677.6	4644.5	4608.7	4531.5	4361.9	4258.5	4156.5	3708.4
30°	4713.4	4738.2	4843.0	4867.8	4833.4	4787.9	4705.1	4535.6	4444.6	4366.0	3873.9
32.5°	4931.3	4985.0	5071.9	5066.3	5019.5	4997.4	4921.6	4741.0	4690.0	4681.7	4105.4
35°	5149.1	5190.4	5267.6	5286.9	5245.6	5241.4	5186.3	5052.5	5054.0	5107.7	4466.6
37.5°	5336.5	5373.8	5464.8	5507.5	5515.8	5536.4	5514.4	5426.2	5551.6	5699.1	4945.0
40°	5493.7	5546.1	5661.9	5736.3	5821.8	5897.6	5901.8	5921.0	6173.3	6427.0	5569.6
42.5°	5616.4	5689.4	5857.6	5995.5	6191.3	6287.8	6365.0	6471.1	6895.7	7274.9	6305.7
45°	5776.3	5860.4	6070.0	6286.4	6592.5	6751.0	6858.5	7142.5	7745.0	8261.9	7061.2
47.5°	6041.0	6085.2	6298.8	6614.5	7017.1	7243.1	7452.7	7882.9	8656.2	9119.4	7689.8
50°	6381.5	6410.5	6571.8	7010.2	7531.3	7829.1	8210.9	8716.9	9601.9	9830.8	8045.5
52.5°	6757.9	6767.5	6888.8	7445.8	8107.5	8482.5	8909.9	9534.4	10372.6	10338.1	8281.2
55°	7194.9	7181.1	7284.5	7918.6	8790.0	9218.7	9716.3	10371.2	11041.2	10697.9	8416.3
57.5°	7695.3	7658.1	7758.7	8545.9	9663.9	10176.8	10682.8	11093.5	11559.5	10999.8	8481.1
60°	8219.2	8144.8	8264.7	9250.4	10693.7	11180.5	11600.9	11711.2	12105.5	11239.7	8369.5
62.5°	8636.9	8638.3	8861.6	10000.3	11752.5	12178.5	12401.9	12501.1	12575.5	11187.3	7782.2
65°	9289.0	9311.0	9668.1	11041.2	12978.1	13347.6	13500.6	13178.0	12596.3	10536.6	6899.9
67.5°	9961.7	10032.0	10685.5	12474.9	14394.0	14691.7	14494.6	13309.0	12033.8	9051.9	5231.8
70°	10181.0	10296.8	11373.5	13462.0	15243.1	15397.5	14730.3	12698.2	10059.6	6052.0	2633.2
72.5°	9329.0	9516.4	10977.7	13102.2	14701.4	14567.6	13179.4	10649.7	6395.3	2298.1	803.7
75°	6578.7	6661.4	9123.6	10868.9	11824.2	11445.1	10025.1	6865.4	2630.3	645.2	275.7
77.5°	3396.9	3356.9	5426.2	7211.4	8432.9	8040.0	6564.9	3554.0	996.8	268.8	170.9
80°	1756.3	1785.3	2347.7	3778.8	5147.7	4736.8	3500.2	1647.4	530.8	148.9	131.0
82.5°	984.3	923.6	1349.7	1650.2	2407.0	1887.3	1342.8	1166.3	231.6	89.6	124.1
85°	179.2	187.5	740.3	891.9	835.5	530.8	432.8	778.9	67.6	49.6	86.8
87.5°	2.7	2.7	143.4	256.4	162.7	74.5	136.5	111.7	13.8	19.3	15.2
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: P648047

CATALOG NUMBER: GALN-SA7A-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1
2.5°	3185.9	3133.6	3035.7	2939.1	2816.5	2715.8	2648.3	2577.9	2506.3	2511.8	2528.4
5°	3130.8	3039.8	2846.8	2642.8	2447.0	2270.5	2096.9	1941.1	1877.6	1819.8	1822.5
7.5°	3075.6	2947.4	2664.9	2345.0	2048.6	1748.0	1530.2	1351.0	1255.9	1184.2	1163.5
10°	3050.8	2881.3	2498.0	2058.3	1637.8	1309.6	1029.8	883.7	770.6	734.8	744.5
12.5°	3061.8	2848.2	2347.7	1799.1	1298.6	912.7	716.8	642.5	617.6	613.5	610.7
15°	3082.5	2824.8	2200.2	1512.3	954.0	678.2	602.4	588.7	585.9	583.2	584.5
17.5°	3110.2	2804.1	2043.1	1243.5	732.0	592.8	570.7	563.8	562.4	562.4	562.4
20°	3137.7	2780.7	1868.0	1003.6	610.7	559.7	545.9	541.8	540.4	540.4	539.0
22.5°	3169.4	2759.9	1690.2	788.6	562.4	536.3	523.9	521.1	519.8	518.3	518.3
25°	3214.9	2733.8	1501.3	645.2	532.1	514.2	501.8	499.1	497.7	492.2	493.5
27.5°	3275.5	2714.4	1306.9	556.9	504.6	486.6	478.3	474.3	471.4	467.4	468.7
30°	3358.3	2697.9	1100.1	508.7	472.9	457.7	449.4	446.7	443.9	439.8	439.8
32.5°	3501.7	2704.8	882.3	470.1	443.9	426.0	417.7	415.0	412.2	408.1	408.1
35°	3716.7	2744.8	705.9	437.0	409.4	391.5	383.3	383.3	379.1	373.6	372.2
37.5°	4068.2	2846.8	566.6	405.3	376.4	359.8	350.2	347.4	343.3	335.0	333.6
40°	4483.2	3005.3	477.0	373.6	346.0	329.5	321.2	313.0	301.9	293.6	292.3
42.5°	5004.3	3168.0	413.6	341.9	317.1	301.9	292.3	278.5	261.9	250.9	249.5
45°	5547.5	3316.9	370.8	313.0	289.5	277.1	266.1	244.0	223.3	209.5	208.2
47.5°	5952.8	3344.5	336.4	285.4	266.1	253.7	238.5	210.9	183.4	170.9	166.8
50°	6144.4	3210.8	300.5	257.8	242.7	228.9	209.5	177.8	147.5	132.3	129.6
52.5°	6211.9	2979.2	271.6	233.0	219.2	202.6	179.2	143.4	115.8	100.6	99.3
55°	6184.4	2686.9	245.4	209.5	191.6	172.3	148.9	114.4	85.5	73.1	70.3
57.5°	6039.7	2314.6	219.2	186.1	164.0	144.8	118.5	85.5	57.9	46.9	45.5
60°	5649.5	1807.3	193.0	159.9	139.2	118.5	93.7	60.7	35.9	26.2	26.2
62.5°	4990.5	1341.4	168.2	133.7	117.2	95.1	66.2	38.6	19.3	13.8	12.4
65°	4170.3	989.9	140.6	113.1	97.9	74.5	46.9	23.4	9.6	4.1	2.7
67.5°	2910.3	610.7	117.2	92.4	79.9	53.8	29.0	9.6	4.1	0.0	0.0
70°	1322.1	290.9	89.6	70.3	60.7	38.6	15.2	5.5	2.7	0.0	0.0
72.5°	410.8	153.0	63.4	51.0	41.3	24.8	8.3	4.1	2.7	0.0	0.0
75°	190.3	97.9	40.0	27.6	23.4	12.4	5.5	2.7	1.4	0.0	0.0
77.5°	142.0	75.8	23.4	15.2	12.4	8.3	4.1	2.7	1.4	0.0	0.0
80°	124.1	38.6	13.8	9.6	6.9	5.5	2.7	1.4	0.0	0.0	0.0
82.5°	111.7	19.3	8.3	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0
85°	60.7	11.0	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.0	5.5	4.1	2.7	2.7	1.4	1.4	1.4	0.0	0.0	0.0
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)