

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: STREETWORKS

Report Number: P649847

Luminaire Tested: **GLAN-SA4A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10566.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

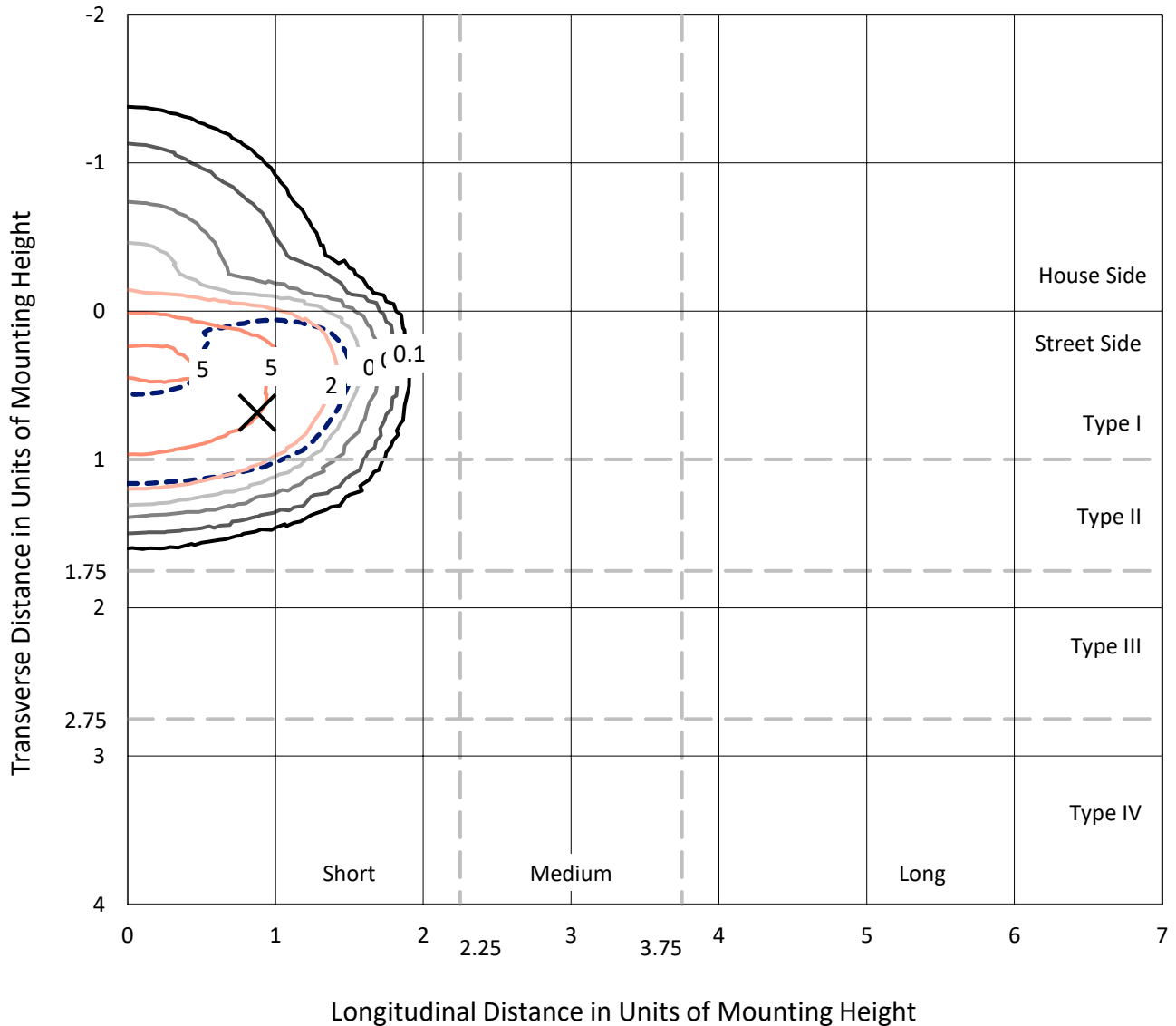
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649847
 CATALOG NUMBER: GLAN-SA4A-835-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

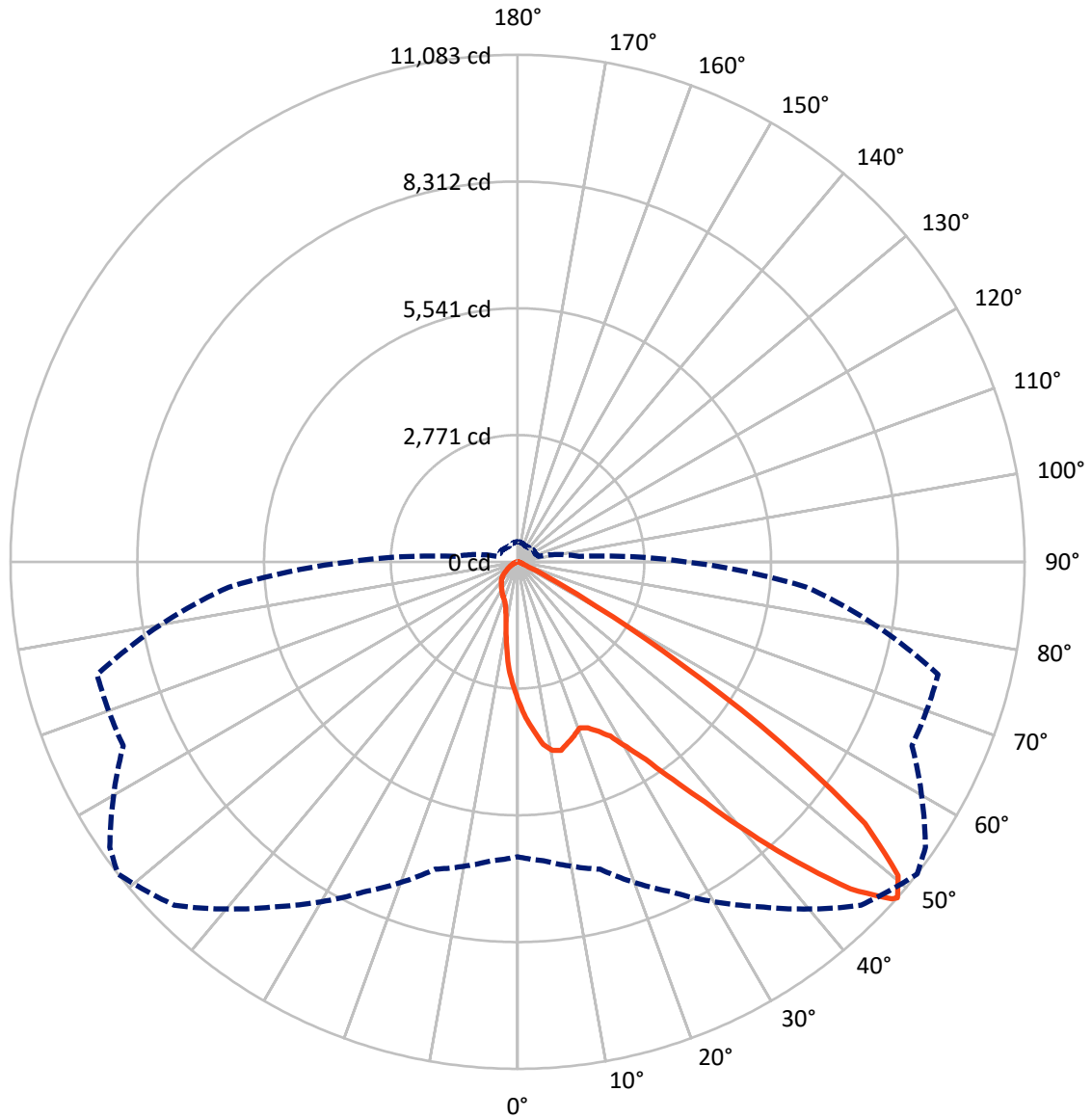
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P649847
CATALOG NUMBER: GLAN-SA4A-835-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P649847
 CATALOG NUMBER: GLAN-SA4A-835-U-AFL-GRSBK

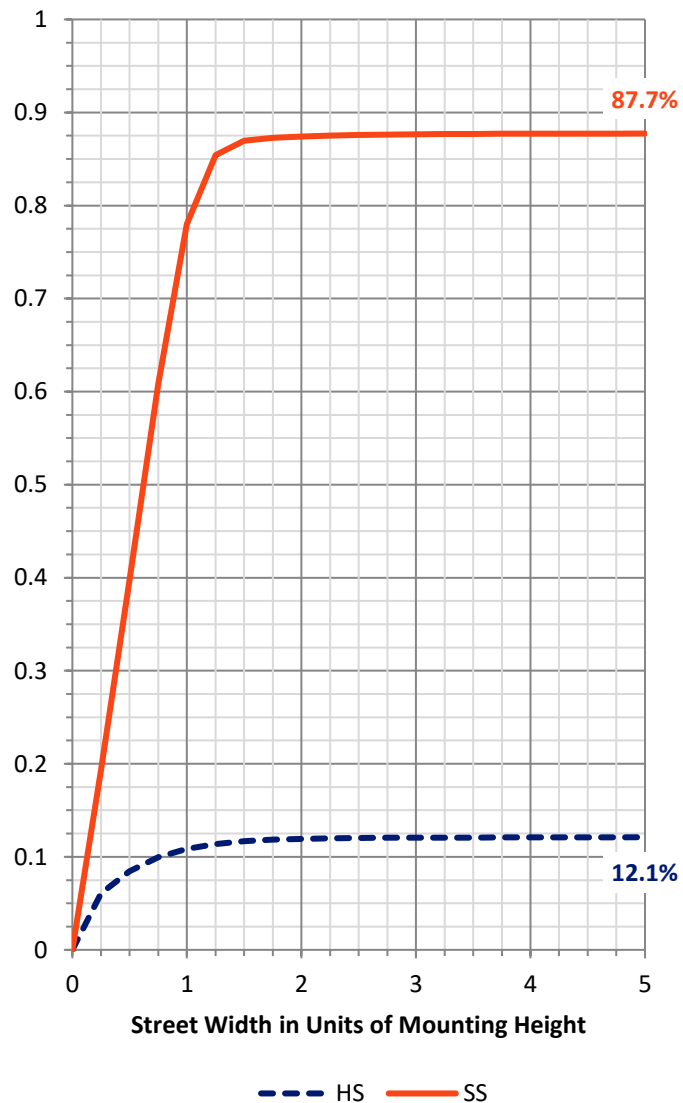
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1286.6	0.0	1286.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9280.0	0.0	9280.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	10566.6	0.0	10566.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	2.6
10°-20°	729.9	6.9
20°-30°	1246.2	11.8
30°-40°	2294.9	21.7
40°-50°	3564.0	33.7
50°-60°	2145.0	20.3
60°-70°	248.1	2.3
70°-80°	48.0	0.5
80°-90°	11.1	0.1
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°	10566.6	100.0
0°-180°	10566.6	100.0

Coefficient of Utilization

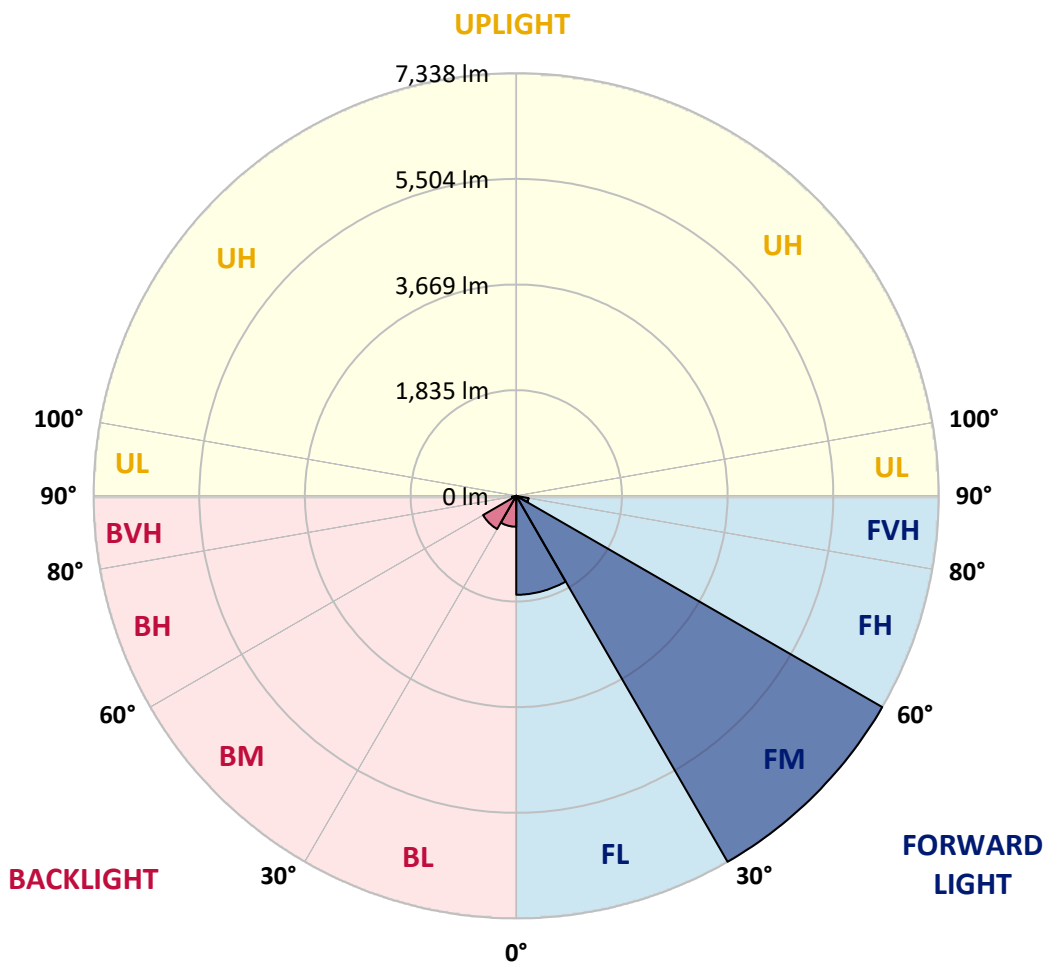


REPORT NUMBER: P649847
 CATALOG NUMBER: GLAN-SA4A-835-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.0	16.3			
FM (30°-60°)	7338.3	69.4			
FH (60°-80°)	218.5	2.1			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	537.4	5.1	B2/1000		
BM (30°-60°)	665.7	6.3	B1/1000		
BH (60°-80°)	77.7	0.7	B0/110		G0/110
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





REPORT NUMBER: P649847

CATALOG NUMBER: GLAN-SA4A-835-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4
2.5°	3698.4	3613.7	3621.4	3565.9	3533.6	3481.2	3410.4	3396.5	3319.5	3214.8	3108.4
5°	4031.1	4011.1	4037.3	3957.2	3960.3	3874.0	3707.7	3710.7	3533.6	3362.6	3197.8
7.5°	4052.7	4006.5	4032.7	4103.5	4145.1	4129.7	4035.7	3954.1	3786.2	3535.1	3294.9
10°	3629.1	3716.9	3744.6	3861.7	4028.1	4203.6	4192.9	4197.5	4057.3	3729.2	3378.0
12.5°	3375.0	3316.4	3410.4	3481.2	3732.3	4072.7	4228.3	4262.2	4273.0	3917.1	3461.2
15°	3259.4	3259.4	3274.8	3294.9	3476.6	3790.8	4108.2	4206.7	4439.3	4163.6	3592.1
17.5°	3331.8	3328.7	3350.3	3308.7	3376.5	3618.3	3997.2	4109.7	4625.7	4405.4	3695.3
20°	3552.1	3562.9	3549.0	3428.8	3433.5	3615.2	3874.0	4051.2	4752.0	4614.9	3832.4
22.5°	3858.6	3864.7	3786.2	3655.3	3616.8	3706.1	3944.8	4080.4	4853.7	4866.0	3874.0
25°	4212.9	4188.3	4172.8	3988.0	3870.9	3948.0	4105.0	4183.6	4916.8	5081.7	3992.6
27.5°	4704.3	4654.9	4561.0	4396.2	4309.9	4200.6	4313.0	4442.4	5097.0	5383.6	4122.0
30°	5429.8	5386.6	5203.3	4990.8	4764.3	4656.5	4692.0	4762.8	5422.0	5733.2	4293.0
32.5°	6521.9	6431.0	6166.0	5760.9	5452.9	5155.6	5146.3	5221.8	5713.2	6216.9	4496.3
35°	7724.9	7697.2	7307.5	6890.0	6293.9	5834.9	5842.6	5882.6	6270.8	6851.5	4762.8
37.5°	8524.4	8676.8	8428.8	7980.6	7480.0	6823.8	6657.5	6671.3	7036.4	7603.2	5243.4
40°	9142.1	9012.6	9041.9	8937.2	8595.2	8148.5	7780.4	7707.9	7922.1	8435.0	5720.9
42.5°	8872.5	8878.7	9058.8	9306.9	9391.6	9359.2	8983.4	8846.3	8679.9	9115.8	6175.3
45°	8111.6	8270.2	8504.3	9160.6	9736.6	10277.3	10203.4	9975.3	9203.6	9655.0	6437.2
47.5°	6897.8	6891.6	7275.1	8128.5	9408.5	10674.7	11010.5	10850.3	9574.9	9594.9	6383.3
48°	6449.5	6560.4	6956.3	7960.6	9200.6	10616.1	11082.9	10881.1	9511.7	9514.8	6337.1
50°	4767.5	4747.4	5240.3	6472.6	8217.8	9975.3	10777.9	10935.0	9510.2	9109.7	6013.6
52.5°	2518.5	2604.7	2963.7	4069.6	5810.3	8163.9	9507.1	9752.0	9174.4	8447.3	5548.4
55°	1070.5	967.3	1243.1	1837.6	3268.6	5454.4	6974.7	7520.0	7757.3	7475.4	4853.7
57.5°	382.0	417.4	480.6	691.6	1374.0	2985.2	4159.0	4582.6	5374.4	5485.2	3307.2
60°	244.9	249.5	269.6	317.3	516.0	1150.6	1973.2	2310.6	2669.5	2755.7	1543.4
62.5°	189.5	191.0	200.2	208.0	244.9	446.7	740.9	878.0	911.9	784.0	405.1
65°	158.6	160.2	163.3	163.3	174.1	209.5	258.8	284.9	277.3	274.2	229.5
67.5°	121.7	124.7	130.9	130.9	137.1	127.9	143.3	152.5	172.5	209.5	195.6
70°	95.5	97.0	101.6	104.8	104.8	92.4	103.2	112.4	126.3	155.6	154.0
72.5°	73.9	77.0	80.1	80.1	75.5	63.2	73.9	81.7	90.9	107.8	104.8
75°	57.0	57.0	58.6	47.8	37.0	32.3	44.7	53.9	67.8	70.9	58.6
77.5°	15.4	16.9	15.4	13.9	15.4	23.1	29.3	33.9	43.1	43.1	38.5
80°	0.0	1.6	4.6	9.2	15.4	21.5	26.2	29.3	33.9	37.0	35.4
82.5°	0.0	1.6	4.6	9.2	13.9	16.9	23.1	24.7	27.7	32.3	32.3
85°	0.0	1.6	3.1	6.2	9.2	10.8	10.8	9.2	9.2	7.7	6.2
87.5°	0.0	0.0	1.6	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6
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: P649847

CATALOG NUMBER: GLAN-SA4A-835-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4	3051.4
2.5°	3066.9	3019.1	2946.7	2832.7	2723.4	2652.5	2584.8	2509.3	2467.6	2464.6	2441.5
5°	3103.8	2996.0	2823.5	2627.8	2418.4	2238.1	2056.4	1937.8	1831.5	1772.9	1762.1
7.5°	3123.9	2983.7	2704.9	2376.8	2019.4	1725.2	1521.8	1372.4	1314.0	1270.8	1269.2
10°	3165.4	2962.1	2527.8	2044.0	1601.9	1304.7	1164.5	1096.7	1064.4	1052.0	1033.6
12.5°	3196.3	2922.1	2345.9	1702.1	1266.2	1081.3	1019.7	1004.4	1005.8	1012.0	1004.4
15°	3239.3	2886.6	2101.0	1397.1	1062.8	973.5	973.5	976.6	998.2	1001.2	999.7
17.5°	3236.3	2817.3	1848.4	1150.6	939.6	927.3	931.9	961.2	975.1	979.7	968.9
20°	3273.3	2752.6	1588.1	982.7	870.3	888.8	919.6	927.3	944.2	947.4	935.0
22.5°	3262.4	2590.9	1346.3	850.3	817.9	853.4	884.2	893.4	888.8	879.5	878.0
25°	3242.5	2452.3	1124.5	762.5	779.4	817.9	847.2	830.3	821.0	822.5	824.1
27.5°	3207.0	2276.7	941.2	700.9	727.0	784.0	782.5	776.3	785.6	777.9	785.6
30°	3200.9	2101.0	790.2	645.4	688.6	730.1	733.2	744.0	754.8	740.9	754.8
32.5°	3210.1	1908.5	682.4	611.5	665.5	667.0	700.9	711.7	703.9	673.1	676.2
35°	3281.0	1760.7	603.8	593.0	628.4	630.0	662.3	648.5	614.6	596.1	606.9
37.5°	3430.4	1637.4	566.8	576.1	579.2	599.2	600.7	573.0	576.1	574.6	580.8
40°	3621.4	1543.4	540.7	560.7	557.6	571.5	516.0	531.4	545.3	549.9	553.0
42.5°	3752.3	1475.6	523.7	536.0	529.9	505.3	474.4	489.8	500.7	517.6	520.6
45°	3810.9	1421.8	503.7	492.9	492.9	448.3	435.9	439.0	463.6	482.2	479.0
47.5°	3715.3	1369.4	468.2	435.9	446.7	409.7	395.9	395.9	422.0	445.1	440.5
48°	3678.4	1347.8	469.8	423.6	431.3	403.6	389.7	386.6	415.9	437.5	437.5
50°	3495.1	1267.8	429.8	389.7	374.3	371.2	362.0	365.0	383.5	403.6	403.6
52.5°	3137.7	1095.2	363.5	334.3	306.5	325.0	329.6	323.5	332.7	351.2	349.7
55°	2618.6	841.0	291.1	277.3	255.7	275.7	284.9	277.3	268.0	281.9	281.9
57.5°	1677.4	452.9	232.6	235.7	214.1	234.1	241.9	223.4	206.4	217.2	215.6
60°	756.3	271.1	191.0	186.4	172.5	195.6	208.0	186.4	163.3	171.0	178.7
62.5°	283.4	192.5	144.8	141.7	138.7	160.2	166.4	149.4	126.3	130.9	132.5
65°	208.0	169.4	115.5	104.8	110.9	126.3	123.2	106.3	90.9	90.9	94.0
67.5°	177.1	147.9	94.0	81.7	81.7	83.2	77.0	67.8	63.2	66.2	69.3
70°	138.7	117.1	73.9	63.2	57.0	50.8	44.7	43.1	38.5	43.1	41.6
72.5°	89.3	78.5	57.0	47.8	43.1	35.4	29.3	27.7	23.1	21.5	21.5
75°	47.8	47.8	44.7	38.5	33.9	27.7	23.1	18.5	12.3	9.2	9.2
77.5°	33.9	37.0	40.0	37.0	30.8	23.1	18.5	12.3	6.2	3.1	3.1
80°	32.3	37.0	40.0	35.4	30.8	23.1	16.9	9.2	4.6	1.6	1.6
82.5°	29.3	33.9	37.0	32.3	27.7	20.0	15.4	9.2	4.6	1.6	1.6
85°	6.2	7.7	9.2	9.2	10.8	13.9	10.8	7.7	3.1	1.6	1.6
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	1.6	1.6	1.6
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)