

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: P527707

Luminaire Tested: **GALN-SA2D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527707  
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: McGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA 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: 10569 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

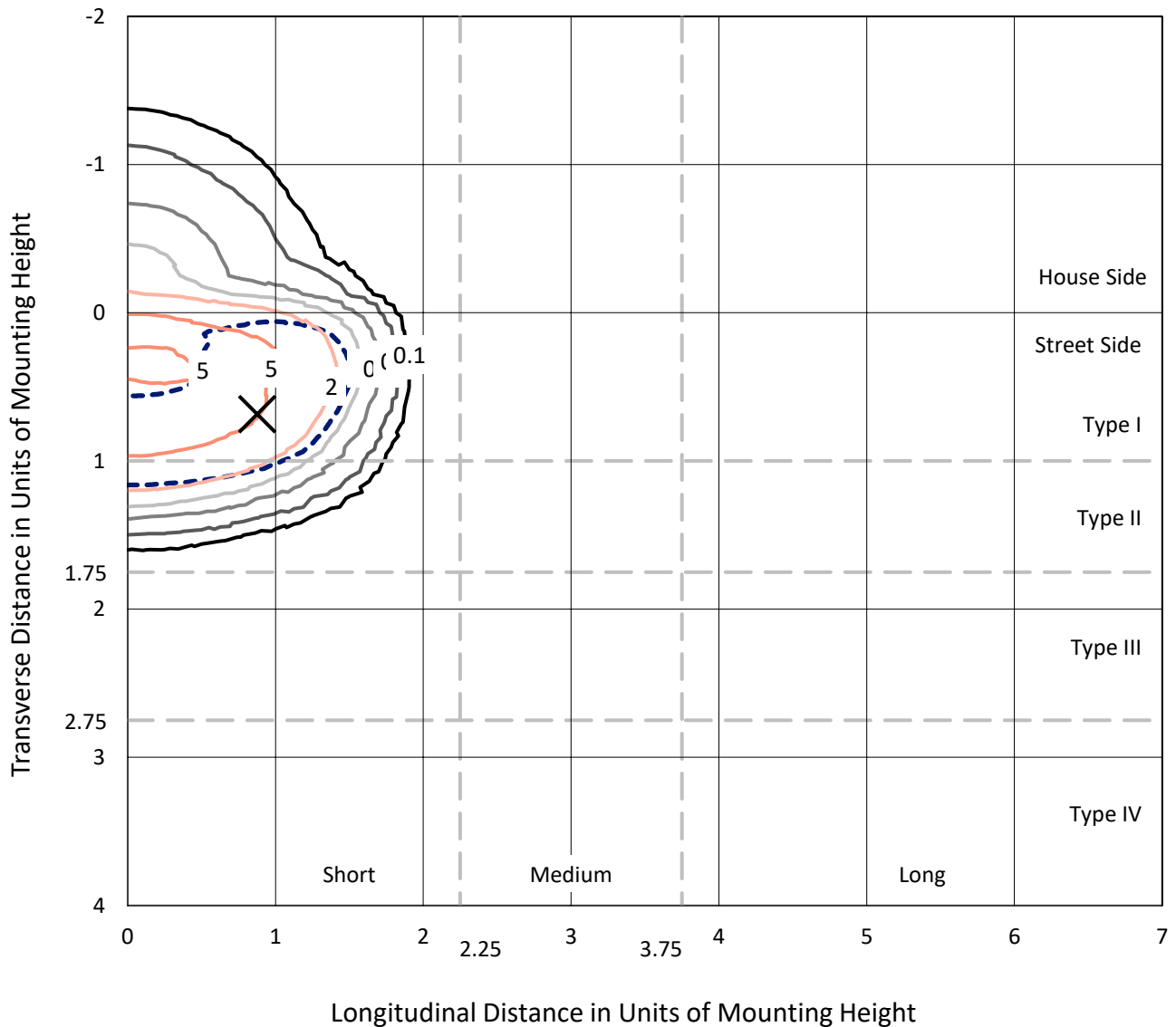
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

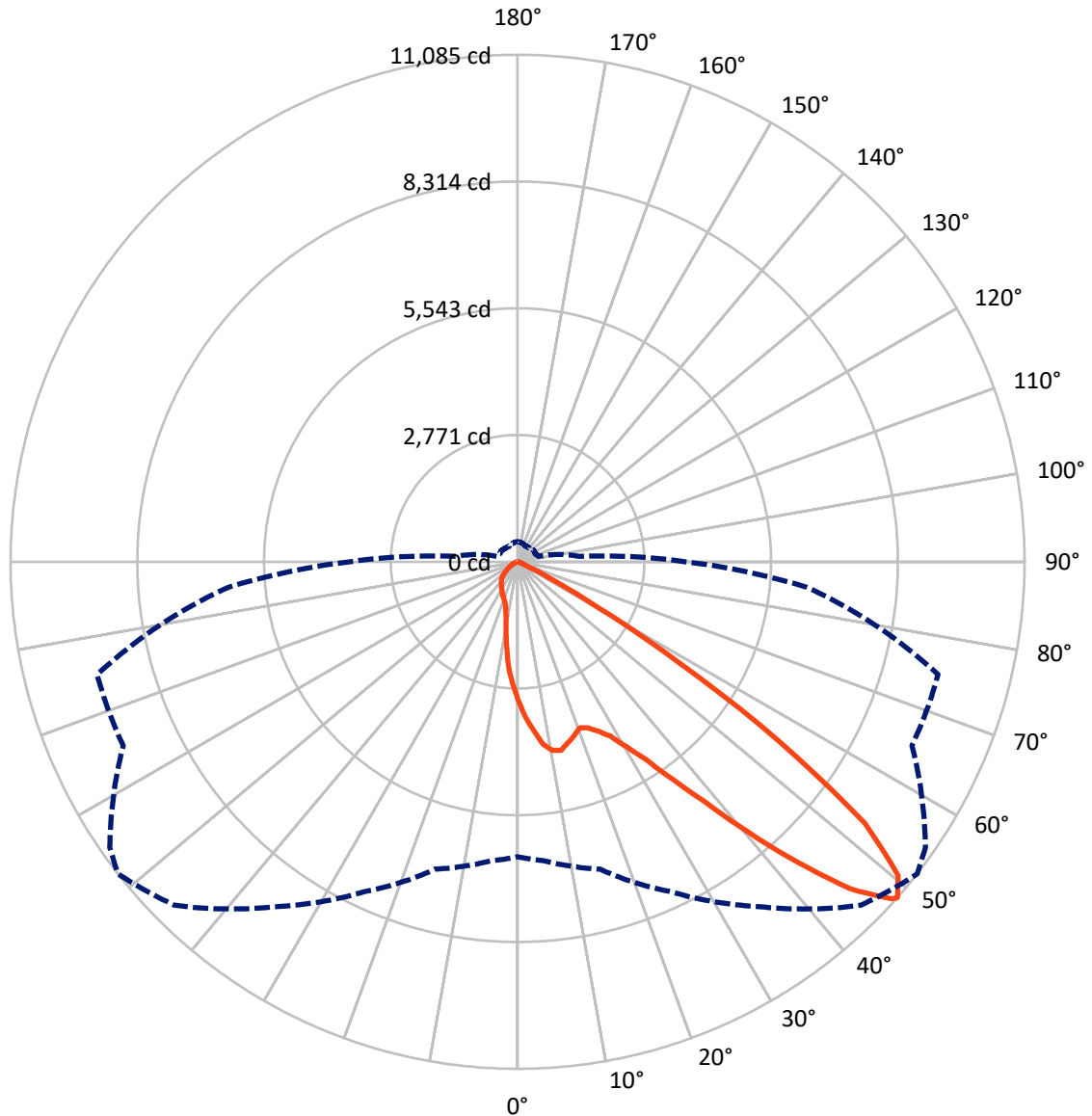
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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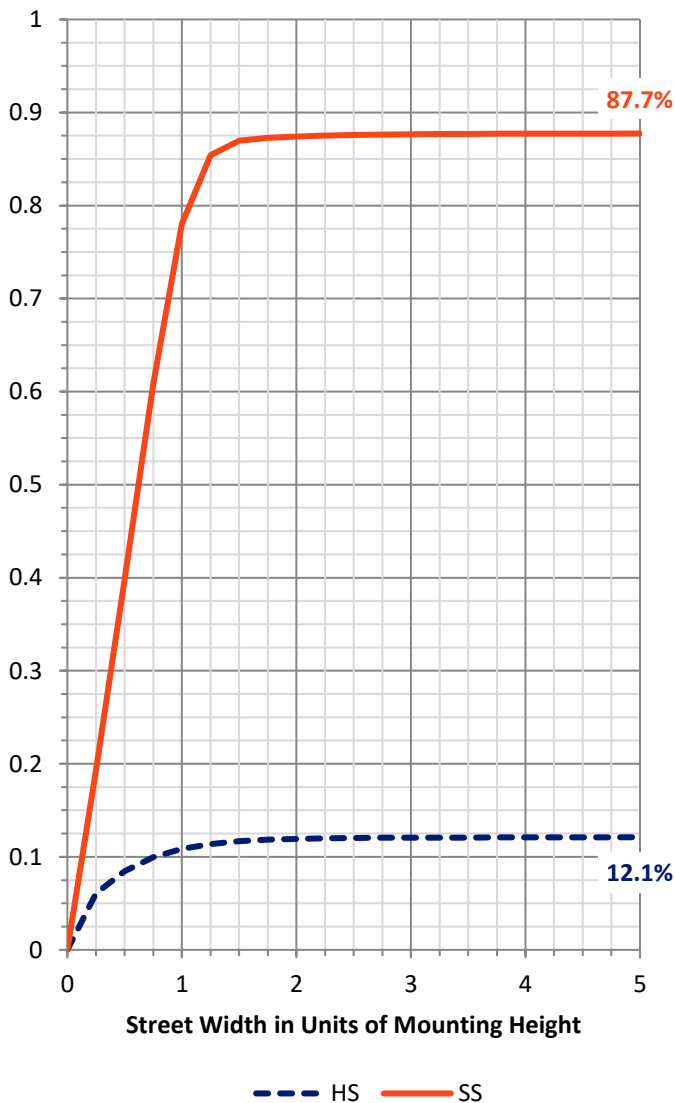
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1286.8	0.0	1286.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	9282.1	0.0	9282.1
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	10569.0	0.0	10569.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.4	2.6
10°-20°	730.1	6.9
20°-30°	1246.5	11.8
30°-40°	2295.5	21.7
40°-50°	3564.9	33.7
50°-60°	2145.4	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°	10569.0	100.0
0°-180°	10569.0	100.0

**Coefficient of Utilization**

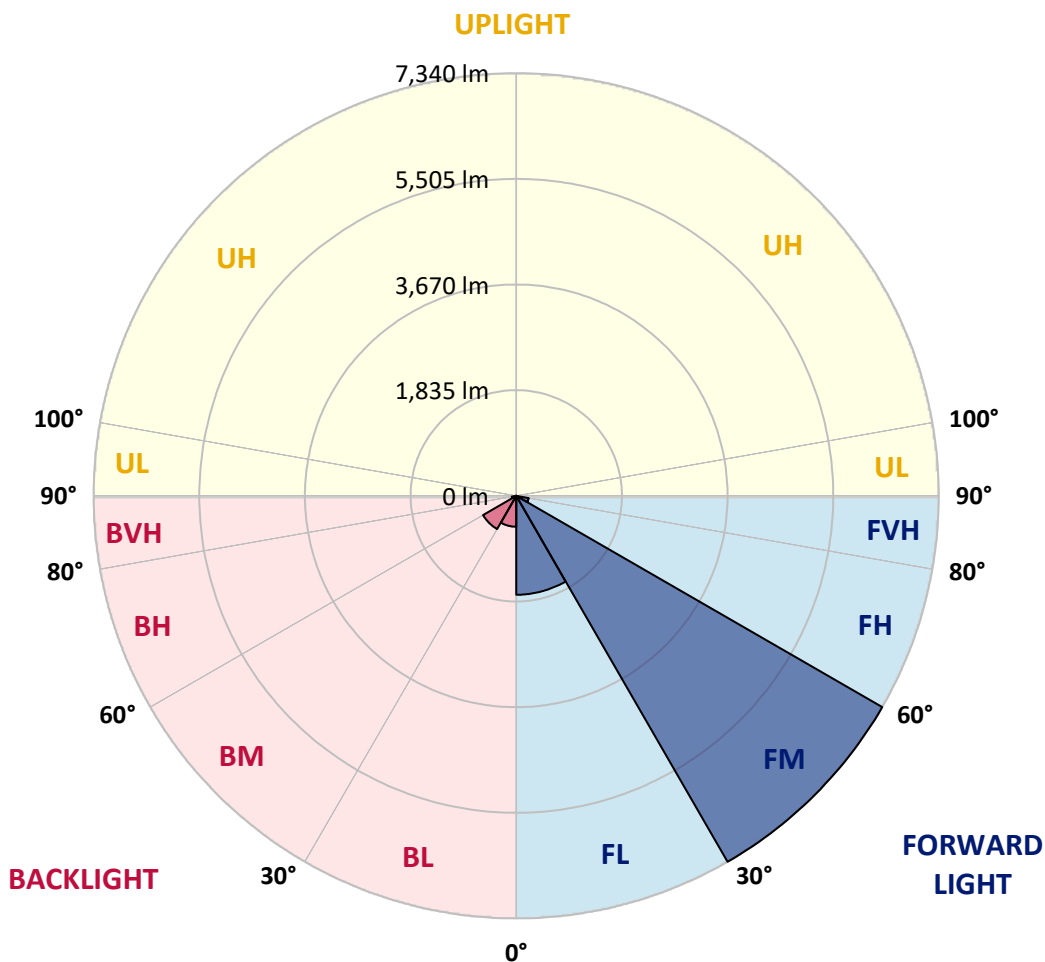


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.4	16.3			
FM (30°-60°)	7340.0	69.4			
FH (60°-80°)	218.5	2.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	537.6	5.1	B2/1000		
BM (30°-60°)	665.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2
2.5°	3699.3	3614.5	3622.2	3566.7	3534.4	3482.0	3411.1	3397.3	3320.2	3215.5	3109.2
5°	4032.0	4012.0	4038.2	3958.1	3961.2	3874.9	3708.5	3711.6	3534.4	3363.4	3198.5
7.5°	4053.6	4007.4	4033.6	4104.5	4146.1	4130.7	4036.7	3955.0	3787.1	3535.9	3295.6
10°	3629.9	3717.7	3745.5	3862.6	4029.0	4204.6	4193.8	4198.4	4058.2	3730.1	3378.8
12.5°	3375.7	3317.2	3411.1	3482.0	3733.1	4073.6	4229.3	4263.2	4273.9	3918.0	3462.0
15°	3260.1	3260.1	3275.6	3295.6	3477.4	3791.7	4109.1	4207.7	4440.3	4164.5	3592.9
17.5°	3332.6	3329.5	3351.0	3309.5	3377.2	3619.1	3998.1	4110.6	4626.8	4406.4	3696.2
20°	3552.9	3563.7	3549.8	3429.6	3434.2	3616.1	3874.9	4052.1	4753.1	4616.0	3833.3
22.5°	3859.5	3865.6	3787.1	3656.1	3617.6	3707.0	3945.8	4081.3	4854.8	4867.1	3874.9
25°	4213.8	4189.2	4173.8	3988.9	3871.8	3948.8	4106.0	4184.6	4918.0	5082.8	3993.5
27.5°	4705.3	4656.0	4562.1	4397.2	4310.9	4201.5	4314.0	4443.4	5098.2	5384.8	4122.9
30°	5431.0	5387.9	5204.5	4991.9	4765.4	4657.6	4693.0	4763.9	5423.3	5734.5	4294.0
32.5°	6523.4	6432.5	6167.5	5762.3	5454.1	5156.8	5147.5	5223.0	5714.5	6218.3	4497.3
35°	7726.7	7698.9	7309.1	6891.6	6295.4	5836.2	5843.9	5884.0	6272.2	6853.1	4763.9
37.5°	8526.3	8678.8	8430.8	7982.4	7481.7	6825.4	6659.0	6672.8	7038.0	7605.0	5244.6
40°	9144.1	9014.7	9044.0	8939.2	8597.2	8150.4	7782.1	7709.7	7923.9	8436.9	5722.2
42.5°	8874.5	8880.7	9060.9	9309.0	9393.7	9361.4	8985.4	8848.3	8681.9	9117.9	6176.7
45°	8113.4	8272.1	8506.3	9162.6	9738.8	10279.6	10205.7	9977.7	9205.8	9657.2	6438.6
47.5°	6899.3	6893.1	7276.8	8130.3	9410.7	10677.1	11013.0	10852.8	9577.1	9597.1	6384.7
48°	6451.0	6561.9	6957.9	7962.4	9202.7	10618.6	11085.4	10883.6	9513.9	9517.0	6338.5
50°	4768.5	4748.5	5241.5	6474.1	8219.7	9977.7	10780.4	10937.5	9512.4	9111.8	6014.9
52.5°	2519.1	2605.3	2964.3	4070.6	5811.6	8165.8	9509.3	9754.3	9176.5	8449.3	5549.6
55°	1070.8	967.6	1243.4	1838.1	3269.4	5455.7	6976.3	7521.8	7759.0	7477.1	4854.8
57.5°	382.1	417.5	480.7	691.8	1374.3	2985.9	4159.9	4583.6	5375.5	5486.5	3307.9
60°	245.0	249.6	269.6	317.4	516.1	1150.9	1973.7	2311.1	2670.1	2756.3	1543.8
62.5°	189.5	191.0	200.3	208.0	245.0	446.8	741.1	878.2	912.1	784.2	405.2
65°	158.7	160.2	163.3	163.3	174.1	209.5	258.8	285.0	277.3	274.2	229.6
67.5°	121.7	124.8	131.0	131.0	137.1	127.9	143.3	152.5	172.6	209.5	195.7
70°	95.5	97.1	101.7	104.8	104.8	92.4	103.2	112.5	126.3	155.6	154.1
72.5°	74.0	77.0	80.1	80.1	75.5	63.2	74.0	81.7	90.9	107.8	104.8
75°	57.0	57.0	58.5	47.8	37.0	32.4	44.7	53.9	67.8	70.9	58.5
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	1.5	4.6	9.2	15.4	21.6	26.2	29.3	33.9	37.0	35.4
82.5°	0.0	1.5	4.6	9.2	13.9	16.9	23.1	24.7	27.7	32.4	32.4
85°	0.0	1.5	3.1	6.2	9.2	10.8	10.8	9.2	9.2	7.7	6.2
87.5°	0.0	0.0	1.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2
2.5°	3067.6	3019.8	2947.4	2833.4	2724.0	2653.1	2585.3	2509.8	2468.2	2465.1	2442.0
5°	3104.5	2996.7	2824.1	2628.5	2418.9	2238.7	2056.9	1938.2	1831.9	1773.4	1762.6
7.5°	3124.6	2984.4	2705.5	2377.3	2019.9	1725.6	1522.2	1372.8	1314.2	1271.1	1269.5
10°	3166.2	2962.8	2528.3	2044.5	1602.3	1305.0	1164.8	1097.0	1064.6	1052.3	1033.8
12.5°	3197.0	2922.7	2346.5	1702.5	1266.5	1081.6	1020.0	1004.5	1006.1	1012.2	1004.5
15°	3240.1	2887.3	2101.5	1397.4	1063.1	973.7	973.7	976.8	998.4	1001.5	999.9
17.5°	3237.0	2818.0	1848.9	1150.9	939.8	927.5	932.1	961.4	975.3	979.9	969.1
20°	3274.0	2753.3	1588.5	983.0	870.5	889.0	919.8	927.5	944.5	947.5	935.2
22.5°	3263.2	2591.5	1346.6	850.5	818.1	853.6	884.4	893.6	889.0	879.7	878.2
25°	3243.2	2452.8	1124.7	762.7	779.6	818.1	847.4	830.4	821.2	822.7	824.3
27.5°	3207.8	2277.2	941.4	701.0	727.2	784.2	782.7	776.5	785.8	778.1	785.8
30°	3201.6	2101.5	790.4	645.6	688.7	730.3	733.4	744.2	754.9	741.1	754.9
32.5°	3210.8	1908.9	682.5	611.7	665.6	667.1	701.0	711.8	704.1	673.3	676.4
35°	3281.7	1761.0	604.0	593.2	628.6	630.2	662.5	648.6	614.7	596.3	607.0
37.5°	3431.2	1637.8	567.0	576.2	579.3	599.3	600.9	573.1	576.2	574.7	580.8
40°	3622.2	1543.8	540.8	560.8	557.7	571.6	516.1	531.5	545.4	550.0	553.1
42.5°	3753.2	1476.0	523.8	536.2	530.0	505.4	474.5	489.9	500.7	517.7	520.8
45°	3811.7	1422.1	503.8	493.0	493.0	448.3	436.0	439.1	463.8	482.2	479.2
47.5°	3716.2	1369.7	468.4	436.0	446.8	409.8	396.0	396.0	422.2	445.3	440.6
48°	3679.2	1348.1	469.9	423.7	431.4	403.7	389.8	386.7	416.0	437.6	437.6
50°	3495.9	1268.0	429.9	389.8	374.4	371.3	362.1	365.1	383.6	403.7	403.7
52.5°	3138.4	1095.4	363.6	334.3	306.6	325.1	329.7	323.5	332.8	351.3	349.7
55°	2619.2	841.2	291.2	277.3	255.8	275.8	285.0	277.3	268.1	282.0	282.0
57.5°	1677.8	453.0	232.6	235.7	214.2	234.2	241.9	223.4	206.5	217.2	215.7
60°	756.5	271.2	191.0	186.4	172.6	195.7	208.0	186.4	163.3	171.0	178.7
62.5°	283.5	192.6	144.8	141.7	138.7	160.2	166.4	149.4	126.3	131.0	132.5
65°	208.0	169.5	115.6	104.8	110.9	126.3	123.3	106.3	90.9	90.9	94.0
67.5°	177.2	147.9	94.0	81.7	81.7	83.2	77.0	67.8	63.2	66.3	69.3
70°	138.7	117.1	74.0	63.2	57.0	50.8	44.7	43.1	38.5	43.1	41.6
72.5°	89.4	78.6	57.0	47.8	43.1	35.4	29.3	27.7	23.1	21.6	21.6
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	40.1	37.0	30.8	23.1	18.5	12.3	6.2	3.1	3.1
80°	32.4	37.0	40.1	35.4	30.8	23.1	16.9	9.2	4.6	1.5	1.5
82.5°	29.3	33.9	37.0	32.4	27.7	20.0	15.4	9.2	4.6	1.5	1.5
85°	6.2	7.7	9.2	9.2	10.8	13.9	10.8	7.7	3.1	1.5	1.5
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	1.5	1.5	1.5
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)