

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: P527713

Luminaire Tested: **GALN-SA2D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
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-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8286 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

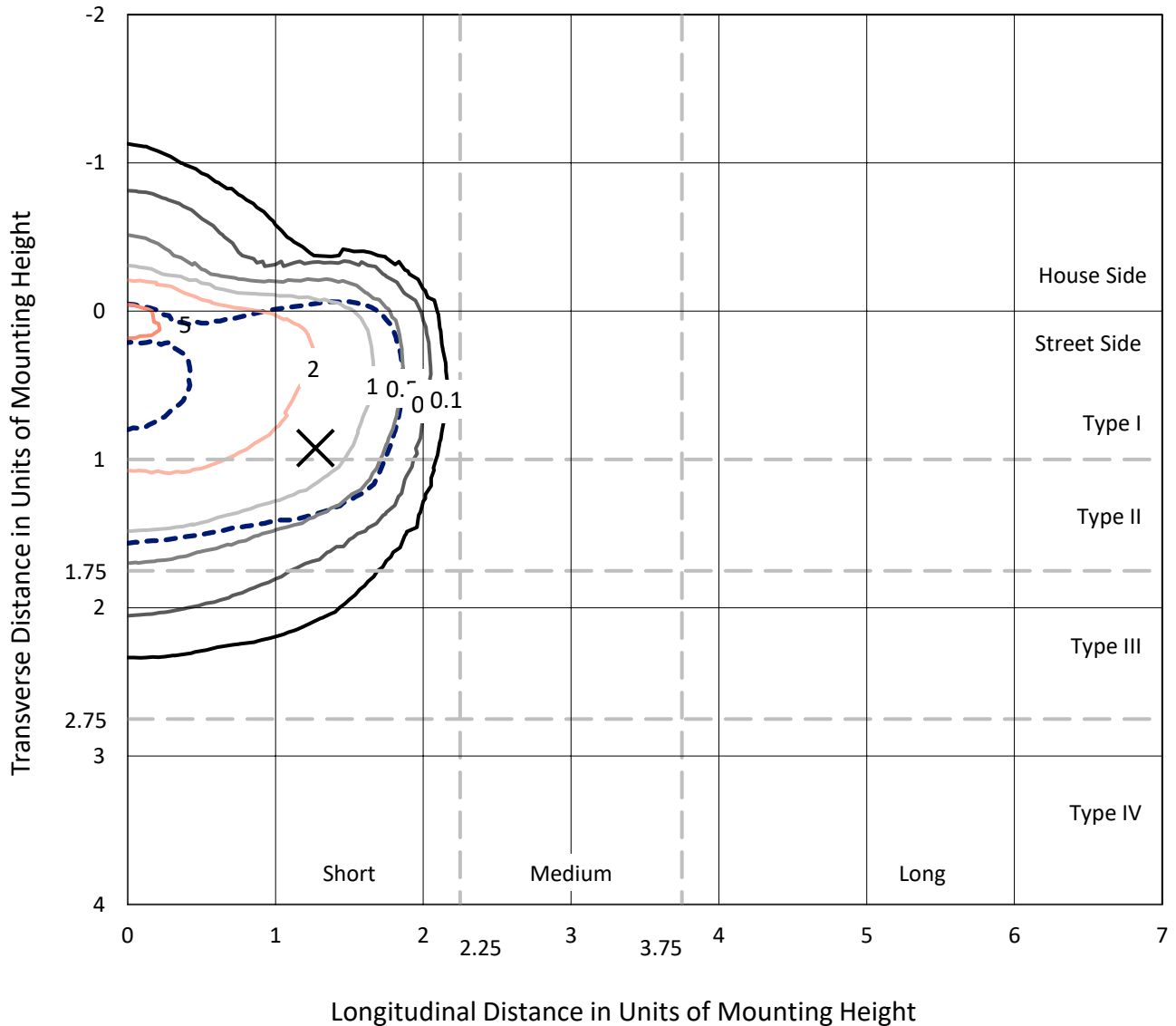
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

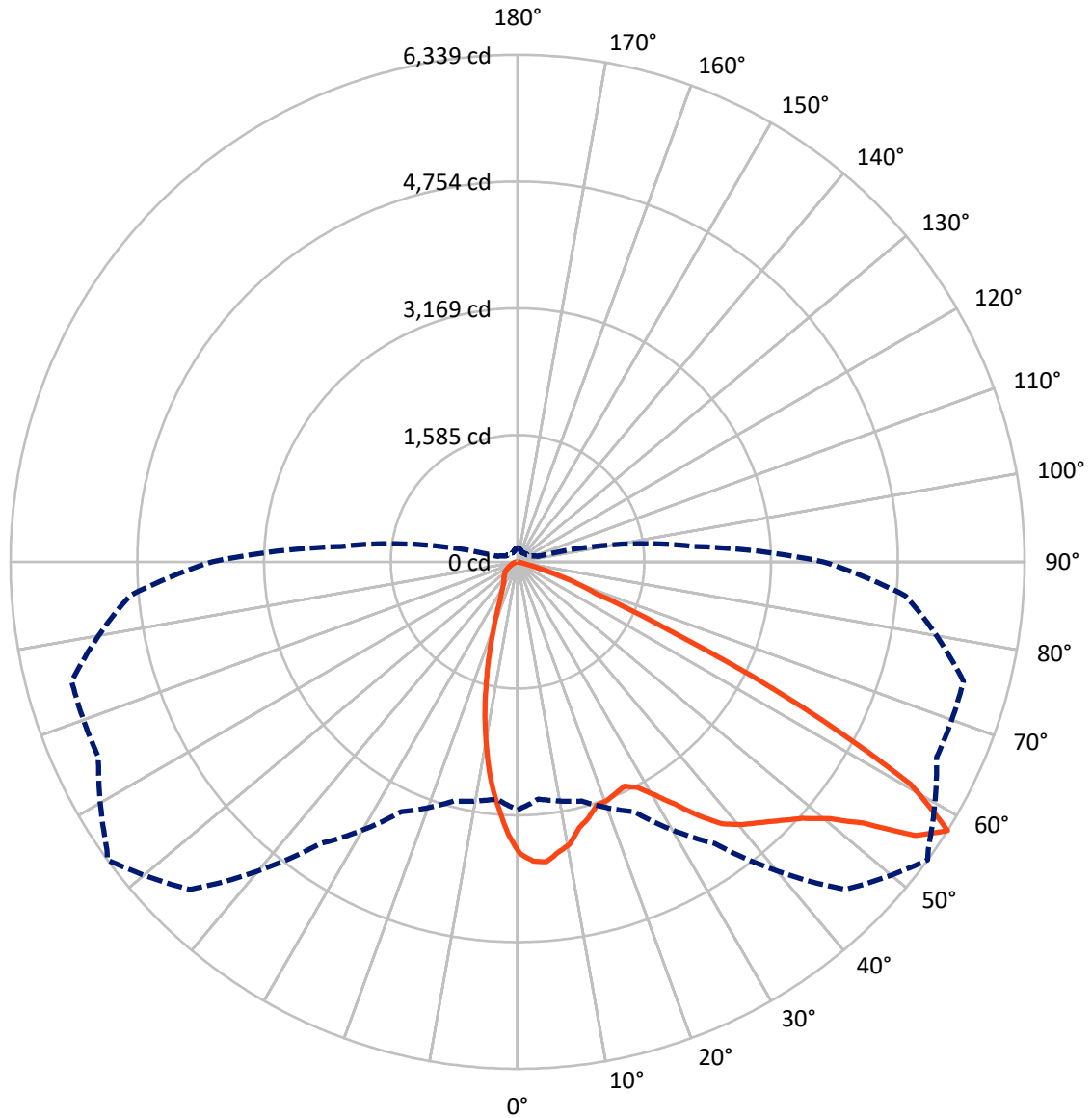
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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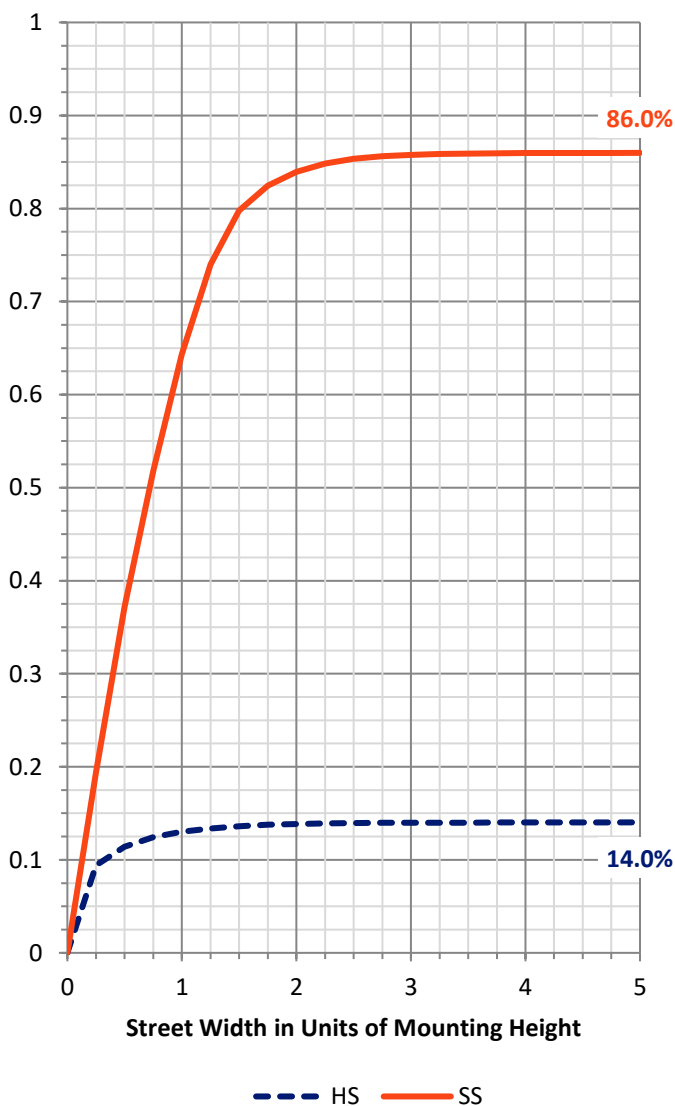
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1171.0	0.0	1171.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	7115.1	0.0	7115.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	8286.0	0.0	8286.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.4	3.7
10°-20°	652.1	7.9
20°-30°	864.2	10.4
30°-40°	1255.9	15.2
40°-50°	1862.4	22.5
50°-60°	2328.8	28.1
60°-70°	918.6	11.1
70°-80°	91.5	1.1
80°-90°	7.1	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°	8286.0	100.0
0°-180°	8286.0	100.0

**Coefficient of Utilization**



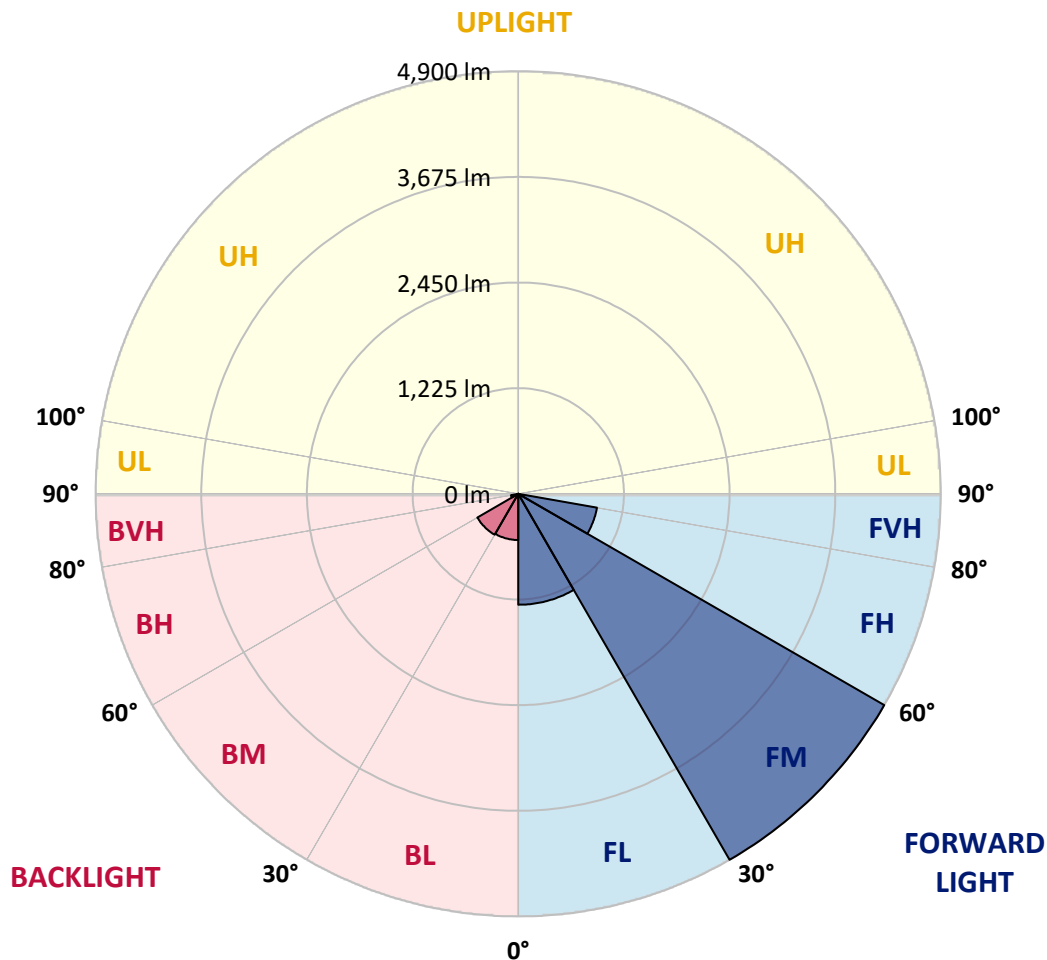
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.2	15.5			
FM (30°-60°)	4899.5	59.1			
FH (60°-80°)	926.1	11.2			G1/1800
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	535.5	6.5	B2/1000		
BM (30°-60°)	547.6	6.6	B1/1000		
BH (60°-80°)	84.0	1.0	B0/110		G0/110
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1
2.5°	3862.7	3822.7	3825.7	3811.9	3793.4	3807.3	3747.2	3761.0	3759.5	3677.8	3623.9
5°	3765.7	3808.8	3764.1	3801.1	3765.7	3804.2	3767.2	3739.5	3694.8	3634.7	3534.5
7.5°	3600.8	3559.2	3571.5	3617.7	3625.4	3711.7	3665.5	3700.9	3682.5	3563.8	3426.7
10°	3269.5	3260.3	3321.9	3383.5	3459.0	3551.5	3586.9	3566.9	3553.0	3508.3	3325.0
12.5°	3015.3	3041.5	3039.9	3141.6	3269.5	3321.9	3414.4	3411.3	3488.3	3405.1	3229.5
15°	2773.4	2787.3	2852.0	2915.1	3056.9	3206.4	3320.4	3335.8	3428.2	3369.7	3155.5
17.5°	2625.5	2605.4	2656.3	2731.8	2876.6	3072.3	3198.6	3235.6	3362.0	3349.6	3070.8
20°	2479.1	2479.1	2520.7	2610.1	2742.6	2962.9	3187.9	3177.1	3362.0	3326.5	2979.9
22.5°	2429.8	2454.5	2465.2	2533.0	2690.2	2879.7	3141.6	3161.7	3388.2	3315.7	2939.8
25°	2497.6	2465.2	2468.3	2522.2	2670.2	2839.6	3107.7	3152.4	3435.9	3369.7	2907.4
27.5°	2508.4	2540.7	2550.0	2587.0	2685.6	2852.0	3192.5	3283.4	3554.6	3496.0	2916.7
30°	2602.4	2634.7	2633.2	2696.4	2764.1	2952.1	3382.0	3400.5	3799.5	3654.7	2973.7
32.5°	2716.4	2750.3	2761.1	2835.0	2889.0	3135.5	3613.1	3660.9	4035.3	3904.3	3123.1
35°	2858.1	2845.8	2895.1	2969.1	3084.6	3403.6	3895.1	3975.2	4289.5	4227.9	3277.2
37.5°	3035.3	3019.9	3067.7	3187.9	3345.0	3721.0	4155.5	4207.9	4474.4	4528.3	3562.3
40°	3160.1	3166.3	3311.1	3472.9	3639.3	4023.0	4320.3	4371.2	4603.8	4808.8	3778.0
42.5°	3368.1	3406.7	3580.8	3778.0	3952.1	4249.5	4454.4	4503.7	4663.9	5033.7	4069.2
45°	3670.1	3653.2	3845.8	4066.1	4258.7	4485.2	4613.1	4596.1	4699.4	5257.1	4252.5
47.5°	4058.4	4061.5	4189.4	4377.3	4577.6	4690.1	4790.3	4730.2	4773.3	5492.9	4497.5
50°	4323.4	4346.5	4449.8	4642.4	4742.5	4915.1	5043.0	5006.0	4992.1	5634.6	4651.6
52.5°	4391.2	4460.5	4516.0	4756.4	4990.6	5263.3	5426.6	5505.2	5258.7	5682.4	4847.3
55°	3879.7	3941.3	4137.0	4466.7	5084.6	5814.9	6039.8	6041.4	5606.9	5895.0	4984.4
57.5°	3101.6	2976.8	3097.0	3446.7	4298.8	5791.8	6338.7	6266.3	5781.0	5770.2	4865.8
60°	2144.8	2113.9	2121.6	2260.3	2975.2	4606.9	5648.5	5742.5	5323.4	5001.4	3851.9
62.5°	1699.5	1673.3	1639.4	1624.0	1847.4	2870.5	3984.4	4116.9	3722.5	3243.3	2283.4
65°	1331.2	1315.8	1320.4	1382.1	1380.5	1628.6	2178.7	2124.7	1701.0	1257.3	718.0
67.5°	898.3	921.4	939.9	1126.3	1221.8	1134.0	1052.3	1021.5	553.1	232.7	158.7
70°	505.4	508.5	528.5	704.1	927.5	879.8	725.7	725.7	275.8	84.7	90.9
72.5°	275.8	266.6	248.1	303.5	412.9	419.1	323.6	282.0	81.7	55.5	50.8
75°	134.0	132.5	114.0	94.0	89.4	74.0	57.0	52.4	37.0	35.4	30.8
77.5°	27.7	26.2	13.9	13.9	15.4	16.9	21.6	21.6	26.2	26.2	21.6
80°	0.0	0.0	1.5	6.2	10.8	15.4	18.5	18.5	21.6	21.6	16.9
82.5°	0.0	0.0	1.5	4.6	9.2	13.9	16.9	18.5	21.6	23.1	18.5
85°	0.0	0.0	0.0	3.1	7.7	10.8	9.2	9.2	7.7	6.2	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1
2.5°	3596.2	3593.1	3522.2	3482.2	3409.7	3346.6	3295.7	3258.7	3258.7	3235.6	3214.1
5°	3494.5	3468.3	3317.3	3220.2	3083.1	2981.4	2912.1	2858.1	2773.4	2796.5	2705.6
7.5°	3368.1	3301.9	3101.6	2953.7	2764.1	2619.3	2471.4	2340.4	2214.1	2157.1	2187.9
10°	3232.5	3117.0	2847.4	2613.2	2377.4	2112.4	1939.8	1730.3	1600.9	1593.2	1559.3
12.5°	3089.3	2958.3	2630.1	2306.5	1996.8	1677.9	1414.4	1218.8	1130.9	1033.9	1052.3
15°	2981.4	2787.3	2388.2	1998.4	1587.0	1265.0	1000.0	849.0	765.8	742.7	734.9
17.5°	2864.3	2656.3	2141.7	1670.2	1244.9	910.6	719.5	647.1	614.8	614.8	610.1
20°	2742.6	2508.4	1896.7	1365.1	933.7	679.5	576.2	553.1	551.6	550.1	550.1
22.5°	2662.5	2338.9	1674.8	1084.7	704.1	543.9	500.8	491.5	497.7	516.2	516.2
25°	2577.7	2175.6	1429.8	836.6	545.4	466.9	442.2	448.4	463.8	480.7	474.6
27.5°	2491.4	2069.3	1198.7	656.4	446.8	408.3	399.1	412.9	429.9	445.3	440.7
30°	2471.4	1955.2	979.9	497.7	383.7	355.9	362.1	374.4	391.4	397.5	403.7
32.5°	2502.2	1865.9	802.7	408.3	334.3	326.6	326.6	332.8	343.6	357.5	352.8
35°	2590.0	1815.0	634.8	354.4	306.6	298.9	297.4	303.5	309.7	314.3	309.7
37.5°	2724.1	1775.0	519.2	314.3	288.1	275.8	272.7	271.2	277.3	278.9	282.0
40°	2895.1	1796.5	440.7	289.7	269.6	255.8	246.5	246.5	246.5	251.1	252.7
42.5°	3080.0	1825.8	380.6	275.8	252.7	235.7	226.5	223.4	226.5	232.7	231.1
45°	3274.1	1882.8	342.1	254.2	237.3	215.7	203.4	200.3	208.0	220.3	218.8
47.5°	3456.0	1964.5	312.8	240.4	221.9	201.8	186.4	183.4	197.2	214.2	215.7
50°	3637.8	2106.2	302.0	229.6	211.1	188.0	174.1	171.0	186.4	208.0	212.6
52.5°	3847.3	2258.8	294.3	215.7	198.8	177.2	161.8	158.7	175.6	203.4	204.9
55°	3984.4	2388.2	288.1	191.1	175.6	160.2	147.9	146.4	164.9	189.5	195.7
57.5°	3824.2	2207.9	266.6	166.4	149.5	141.8	131.0	131.0	146.4	169.5	174.1
60°	2899.7	1453.0	189.5	134.0	126.3	121.7	117.1	117.1	129.4	146.4	147.9
62.5°	1697.9	782.7	121.7	107.9	107.9	103.2	95.5	95.5	107.9	117.1	118.6
65°	503.8	251.1	98.6	92.4	90.9	83.2	75.5	74.0	83.2	87.8	86.3
67.5°	144.8	115.6	81.7	77.0	75.5	63.2	58.5	57.0	58.5	55.5	53.9
70°	86.3	78.6	63.2	64.7	57.0	46.2	41.6	40.1	37.0	32.4	29.3
72.5°	47.8	47.8	46.2	49.3	40.1	30.8	26.2	21.6	16.9	13.9	12.3
75°	29.3	30.8	32.4	33.9	26.2	20.0	16.9	10.8	6.2	3.1	3.1
77.5°	20.0	21.6	23.1	24.7	21.6	18.5	13.9	7.7	1.5	0.0	0.0
80°	15.4	16.9	20.0	21.6	23.1	24.7	18.5	7.7	1.5	0.0	0.0
82.5°	16.9	18.5	23.1	21.6	21.6	21.6	16.9	7.7	1.5	0.0	0.0
85°	3.1	4.6	7.7	7.7	10.8	13.9	10.8	3.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)