

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: P650792

Luminaire Tested: **GALN-SA3C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17618.1 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

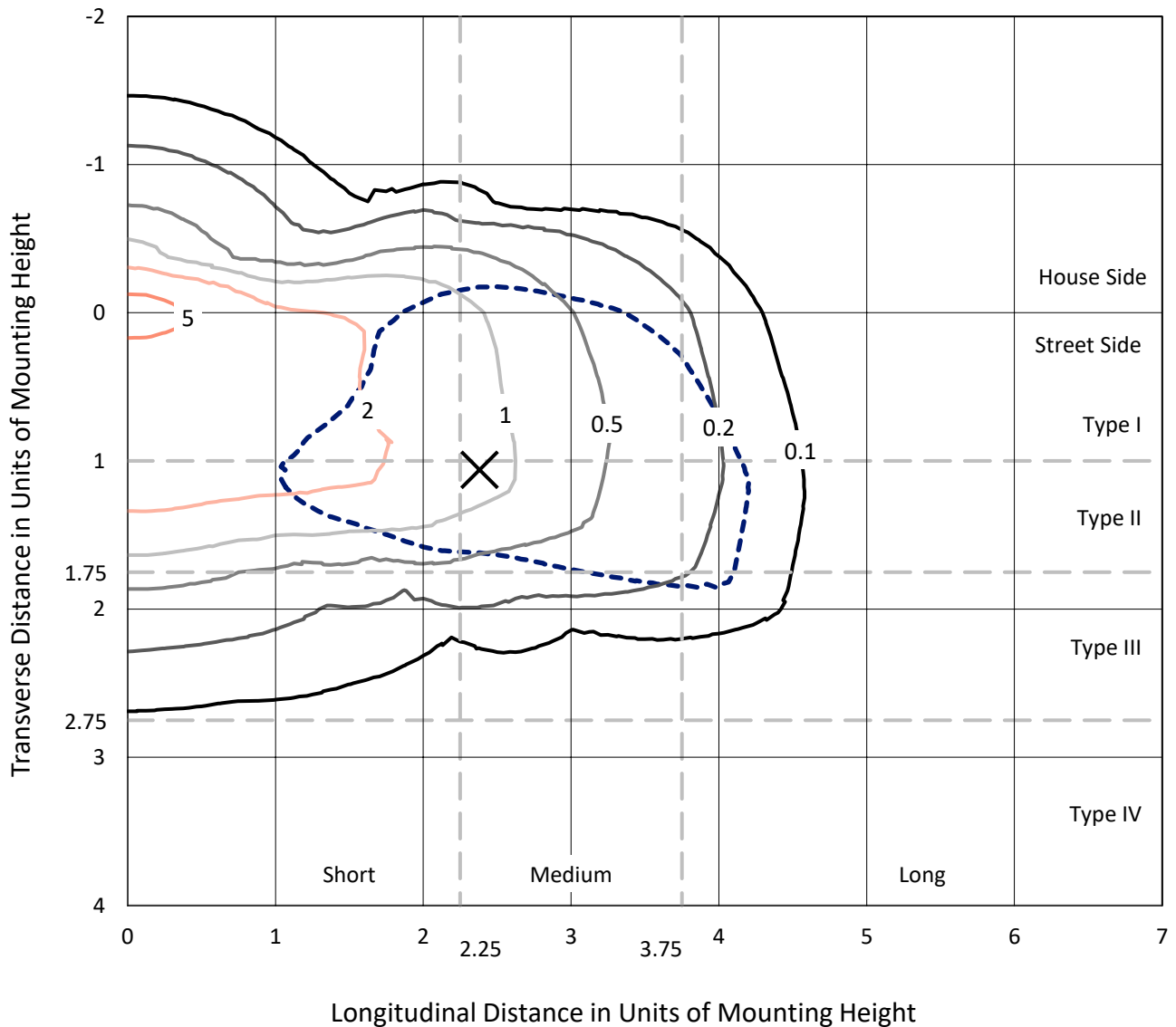
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

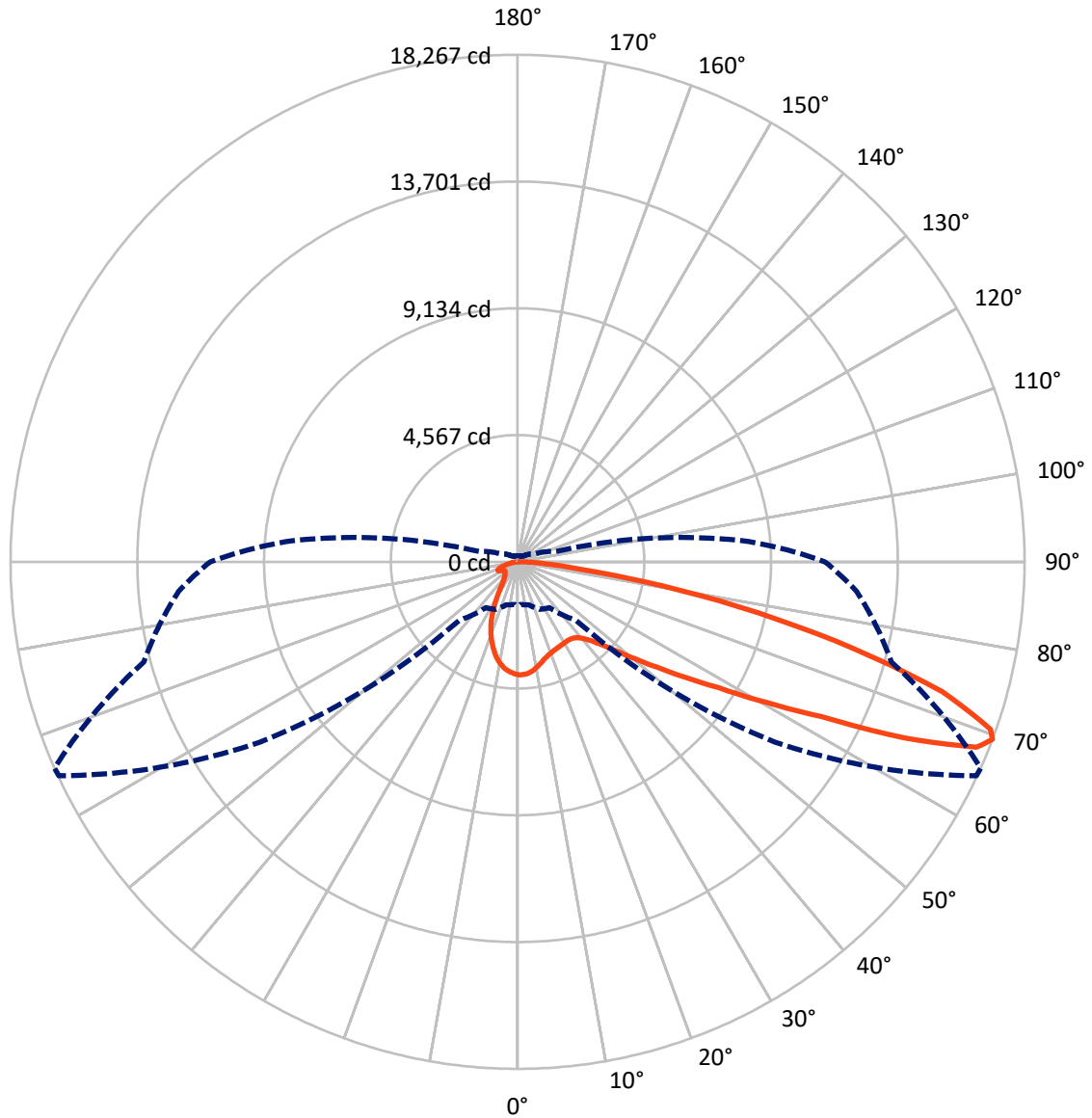
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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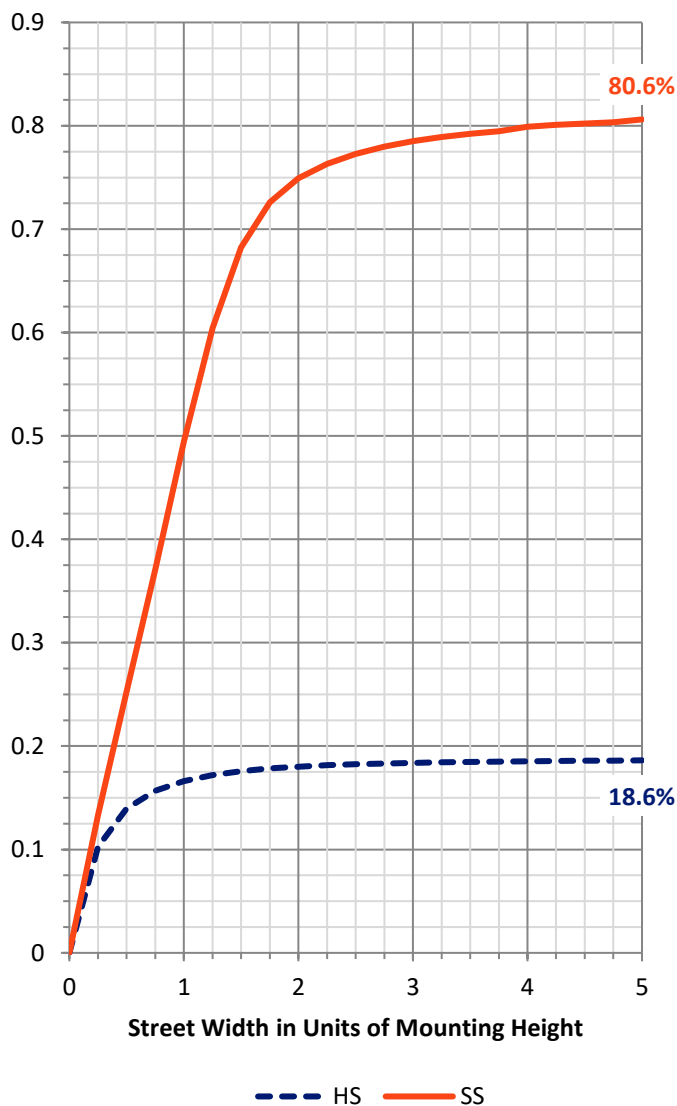
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3313.3	0.0	3313.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14304.8	0.0	14304.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	17618.1	0.0	17618.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	2.0
10°-20°	838.0	4.8
20°-30°	1140.8	6.5
30°-40°	1533.0	8.7
40°-50°	2289.1	13.0
50°-60°	3641.2	20.7
60°-70°	4478.5	25.4
70°-80°	2913.9	16.5
80°-90°	430.3	2.4
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°	17618.1	100.0
0°-180°	17618.1	100.0

Coefficient of Utilization

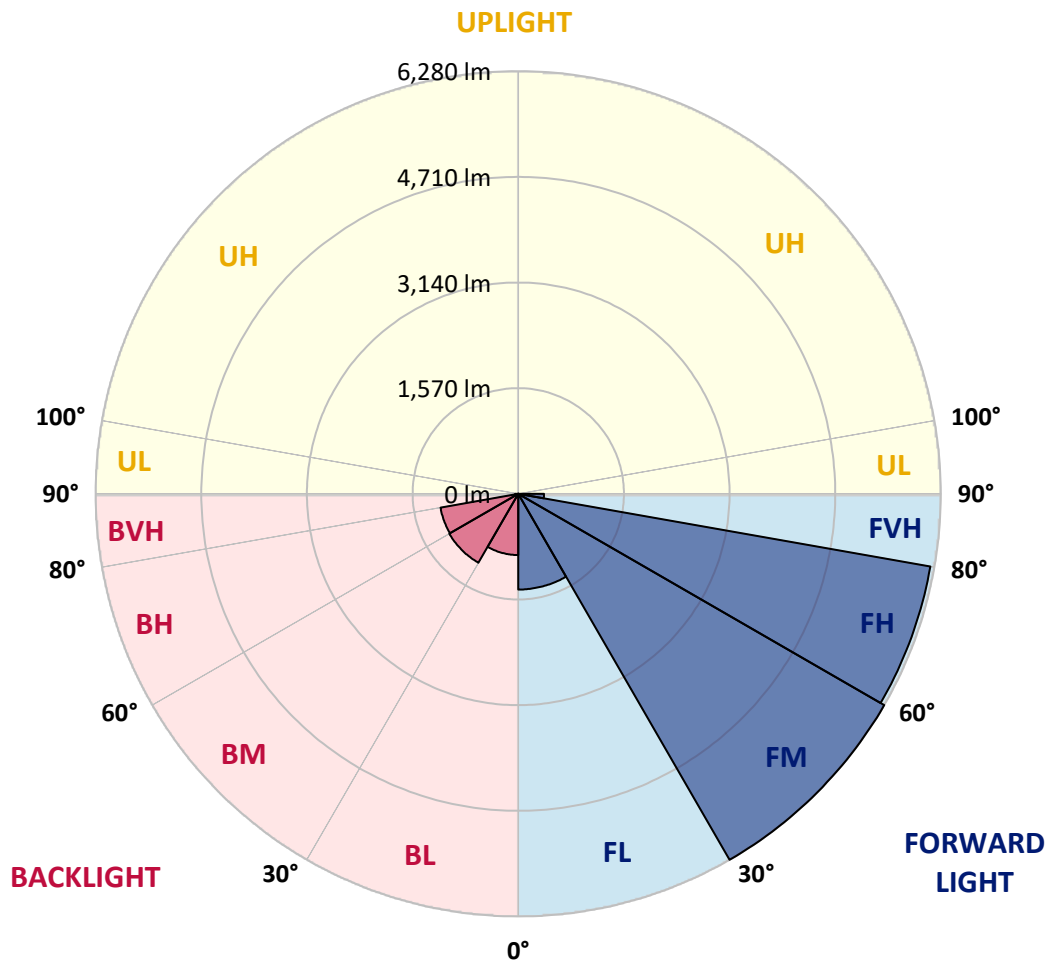


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.6	8.1			
FM (30°-60°)	6280.3	35.6			
FH (60°-80°)	6219.3	35.3			G3/7500
FVH (80°-90°)	382.6	2.2			G3/500
BL (0°-30°)	909.5	5.2	B2/1000		
BM (30°-60°)	1183.0	6.7	B2/2500		
BH (60°-80°)	1173.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	47.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5
2.5°	3926.0	3941.7	3959.3	3978.8	4015.9	4036.3	4050.9	4067.5	4069.5	4078.3	4071.4
5°	3636.3	3654.8	3681.1	3718.2	3773.8	3860.7	3950.4	4023.6	4032.4	4073.4	4085.1
7.5°	3394.4	3405.0	3426.5	3486.0	3565.1	3661.6	3792.4	3940.7	3962.2	4059.8	4093.9
10°	3197.2	3208.0	3233.3	3294.8	3372.8	3493.9	3637.2	3832.4	3849.9	4017.8	4095.8
12.5°	3049.9	3059.6	3087.0	3147.5	3237.3	3350.5	3508.5	3715.3	3740.7	3962.2	4077.3
15°	2937.7	2956.3	2978.7	3028.4	3123.1	3232.4	3385.5	3608.0	3628.5	3903.6	4064.6
17.5°	2889.9	2898.7	2914.3	2960.2	3029.5	3136.8	3290.9	3524.1	3548.5	3862.6	4061.7
20°	2891.9	2900.6	2903.6	2929.0	2978.7	3071.4	3223.6	3457.8	3487.0	3826.6	4066.6
22.5°	2958.2	2959.1	2948.5	2939.6	2959.1	3036.3	3175.8	3408.0	3442.1	3810.9	4070.4
25°	3060.7	3078.2	3062.6	3021.6	2985.5	3022.6	3157.3	3380.7	3412.9	3788.5	4065.6
27.5°	3226.5	3229.4	3216.7	3161.2	3067.5	3040.1	3149.5	3360.2	3387.5	3771.9	4041.2
30°	3448.9	3440.2	3428.5	3367.0	3219.7	3107.5	3166.0	3341.6	3370.0	3747.5	4011.9
32.5°	3674.3	3701.7	3690.9	3618.7	3427.5	3238.2	3219.7	3339.7	3363.1	3729.0	3979.7
35°	3913.3	3926.0	3976.8	3939.7	3743.6	3450.0	3320.2	3370.0	3388.5	3729.9	3957.3
37.5°	4100.7	4134.9	4253.9	4286.1	4101.7	3729.9	3483.1	3455.8	3463.6	3777.8	3966.1
40°	4327.0	4385.6	4538.8	4670.5	4549.5	4093.9	3760.2	3614.8	3624.6	3892.9	4023.6
42.5°	4613.9	4654.9	4860.7	5039.3	5019.8	4574.9	4095.8	3875.3	3880.2	4122.2	4184.6
45°	4949.5	5008.1	5239.3	5507.6	5553.5	5119.3	4580.8	4269.5	4266.6	4478.3	4485.1
47.5°	5378.8	5414.9	5644.2	5936.9	6122.3	5803.2	5169.0	4835.4	4804.1	4997.3	4941.7
50°	5774.0	5830.6	6004.2	6324.2	6785.7	6604.3	5942.8	5569.1	5495.9	5676.4	5582.7
52.5°	5939.8	5999.4	6145.7	6542.8	7354.5	7640.4	6925.2	6444.2	6322.3	6460.8	6426.7
55°	5652.0	5729.1	5865.6	6348.6	7604.3	8835.6	8250.2	7456.0	7367.2	7307.7	7317.5
57.5°	4878.3	4951.5	5135.9	5668.6	7305.8	9703.0	10142.0	8756.6	8566.3	8292.2	8339.0
60°	3713.4	3759.2	3854.8	4445.1	6420.9	9928.3	12290.4	10400.6	10279.5	9272.7	9305.8
62.5°	2637.2	2688.9	2755.3	3049.9	4700.8	9293.2	13972.5	12696.3	12264.1	10288.4	10256.2
65°	2141.6	2106.5	2186.4	2324.0	2758.2	7202.3	14351.0	15882.8	15287.6	11626.0	11179.2
67.5°	1761.1	1724.0	1803.0	2047.9	2097.7	4180.7	12987.1	17951.2	17832.1	13080.7	12116.7
69°	1559.1	1539.6	1608.8	1887.9	2013.8	2968.9	11313.8	18239.0	18267.4	13938.3	12261.1
70°	1405.0	1412.8	1480.1	1806.9	1975.7	2447.9	9669.8	17841.9	18081.9	14366.6	12105.0
72.5°	1034.2	1050.8	1144.4	1496.6	1939.6	2077.2	5754.5	15584.2	16008.7	14392.0	11073.8
75°	722.9	715.2	798.1	1126.9	1832.3	2058.7	3379.7	12052.4	12533.3	12439.7	9304.9
77.5°	473.2	485.8	552.2	796.2	1541.6	2043.0	2203.1	8550.7	8862.9	8319.5	5503.7
80°	333.7	332.7	369.8	543.5	1143.5	1963.1	1804.0	5389.5	5310.5	3269.5	1632.3
82.5°	191.2	204.9	247.8	382.5	764.9	1727.9	1659.6	2577.7	2353.3	931.7	551.3
85°	106.4	111.3	147.3	231.2	446.8	1301.5	1448.9	1172.8	1106.4	389.3	237.1
87.5°	34.1	37.1	61.5	117.1	202.9	614.7	820.6	541.5	499.6	140.5	95.6
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°	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5	4068.5
2.5°	4074.4	4086.1	4054.9	4024.6	3997.3	3959.3	3925.1	3896.8	3877.3	3874.3	3864.6
5°	4088.0	4089.0	4029.5	3949.5	3871.5	3785.6	3696.8	3633.4	3573.8	3540.7	3524.1
7.5°	4097.8	4089.0	3981.7	3851.9	3701.7	3545.6	3389.5	3264.6	3168.0	3129.9	3144.6
10°	4093.9	4066.6	3909.5	3701.7	3483.1	3250.0	3025.5	2849.9	2688.9	2606.0	2607.9
12.5°	4072.4	4027.5	3802.2	3532.9	3211.9	2899.7	2556.2	2319.1	2132.8	2022.5	1988.4
15°	4053.9	3975.8	3676.3	3303.6	2904.6	2458.7	2040.1	1747.4	1591.3	1504.5	1503.5
17.5°	4034.4	3926.0	3538.8	3060.7	2551.3	1977.7	1538.6	1315.2	1242.0	1250.8	1236.2
20°	4013.8	3867.5	3395.3	2790.4	2121.1	1475.2	1152.3	1061.5	1082.0	1122.0	1127.9
22.5°	3990.5	3805.1	3241.1	2492.8	1668.4	1110.3	934.7	921.1	973.7	1036.1	1044.9
25°	3954.4	3727.1	3047.0	2181.6	1286.9	894.7	818.5	828.3	880.0	932.8	938.6
27.5°	3903.6	3630.4	2850.9	1793.3	966.9	767.8	748.3	761.0	786.4	818.5	826.4
30°	3835.3	3521.2	2625.5	1457.6	774.6	704.4	696.6	703.4	718.0	731.8	735.6
32.5°	3767.0	3415.8	2398.2	1116.2	690.8	662.5	654.6	654.6	654.6	656.7	657.6
35°	3703.6	3316.3	2154.2	869.3	646.9	629.3	618.6	606.9	604.9	598.1	598.1
37.5°	3668.5	3225.6	1894.8	727.9	614.7	602.0	587.4	567.8	557.1	558.1	556.2
40°	3675.3	3166.0	1658.6	647.8	588.4	574.7	552.2	529.7	522.9	522.9	521.0
42.5°	3752.4	3146.5	1432.3	605.9	563.0	547.3	519.1	498.5	494.7	493.7	495.6
45°	3930.0	3194.3	1229.4	578.6	541.5	518.1	489.8	471.2	467.3	467.3	466.3
47.5°	4276.3	3349.5	1084.0	561.0	525.9	495.6	466.3	447.8	441.0	439.1	439.1
50°	4814.9	3686.0	975.6	545.4	506.4	475.2	444.9	423.4	412.7	411.8	410.7
52.5°	5563.2	4211.0	933.7	533.7	484.9	453.7	420.5	400.0	386.4	383.4	381.5
55°	6438.4	4943.7	991.3	524.9	462.5	429.3	395.1	373.7	361.0	355.2	354.1
57.5°	7452.1	5823.8	1209.9	513.2	441.9	402.9	369.8	348.3	334.6	327.8	325.9
60°	8362.4	6728.2	1591.3	506.4	424.5	374.7	340.5	321.0	308.3	301.5	300.5
62.5°	9362.4	7590.6	2046.9	524.9	416.6	347.3	313.2	295.6	284.9	278.0	278.0
65°	10430.8	8454.2	2348.4	587.4	428.3	325.9	283.9	269.3	259.5	254.7	253.6
67.5°	11150.8	8752.6	1934.7	651.8	457.6	302.4	255.7	243.9	238.1	233.2	233.2
69°	11072.8	8375.1	1427.4	668.3	466.3	290.7	240.0	231.2	223.5	221.4	219.5
70°	10825.9	7944.8	1196.2	657.6	459.5	280.1	230.3	219.5	212.7	210.8	209.7
72.5°	9642.5	6890.1	890.8	571.7	391.2	243.0	203.9	194.2	188.3	185.4	185.4
75°	8011.2	5631.5	695.7	454.6	306.4	204.9	174.7	166.9	162.0	160.0	159.0
77.5°	4490.0	3144.6	499.6	356.1	232.2	165.8	146.3	139.5	134.6	132.7	132.7
80°	1250.8	898.6	293.7	235.1	158.0	125.9	116.1	111.3	104.4	99.5	102.4
82.5°	471.2	389.3	167.8	141.5	100.5	83.9	81.0	77.0	74.2	67.3	67.3
85°	229.3	189.3	107.3	75.1	55.6	43.9	42.0	40.0	38.0	33.1	34.1
87.5°	79.1	83.9	46.8	27.3	16.6	10.8	8.7	4.9	4.9	4.9	4.9
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)