

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: P652026

Luminaire Tested: **GALN-SA7A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15996.6 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

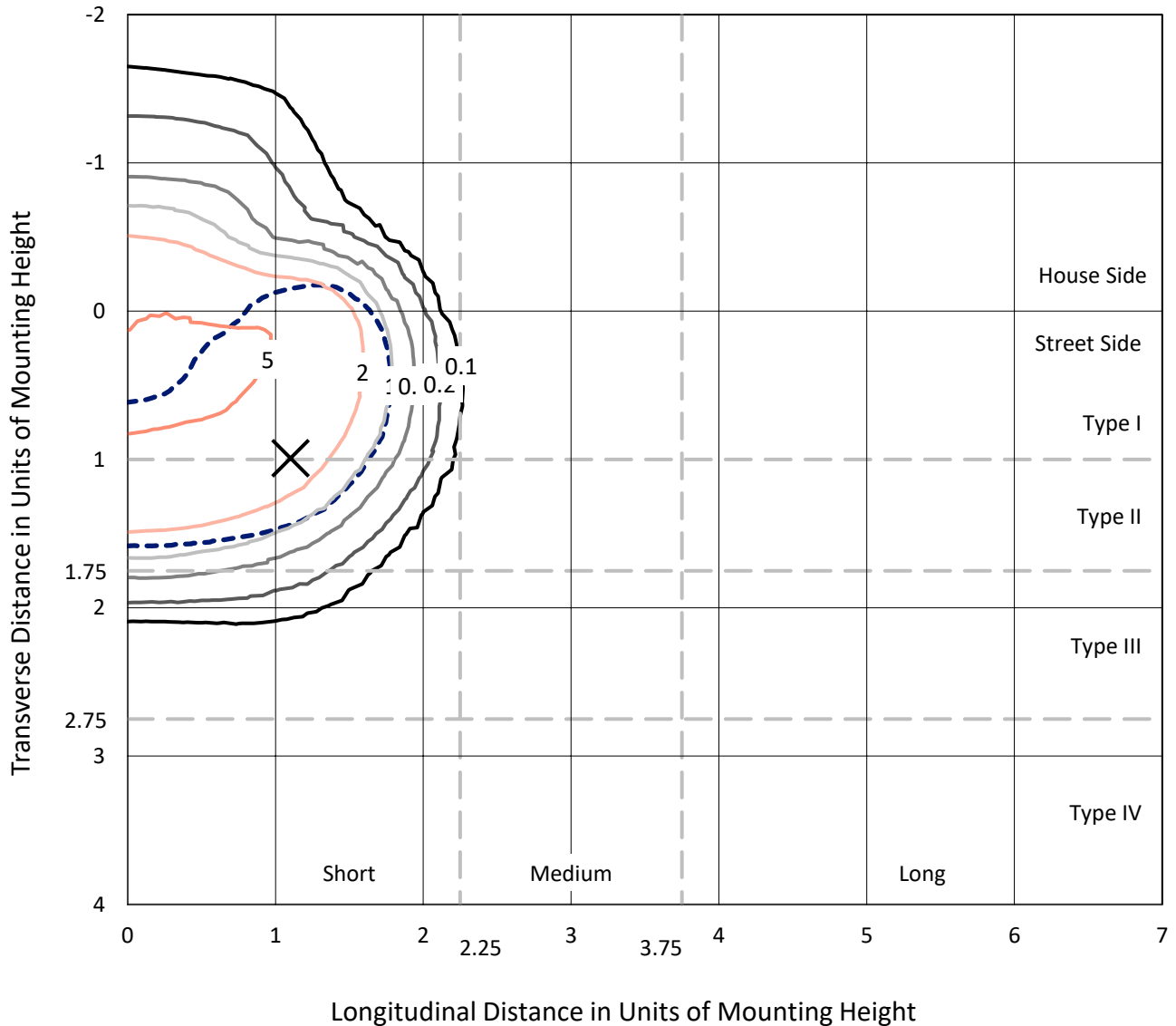
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

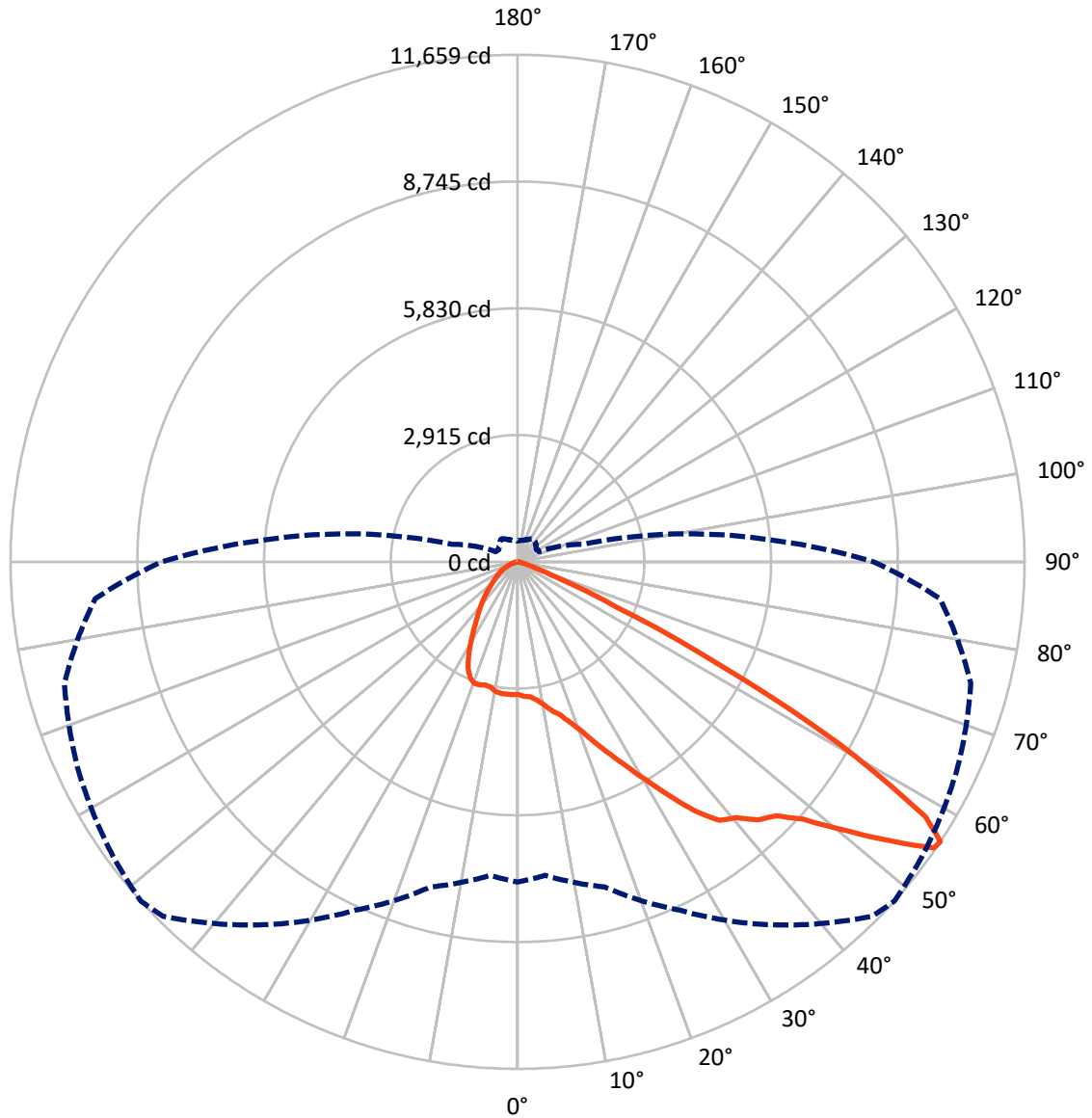
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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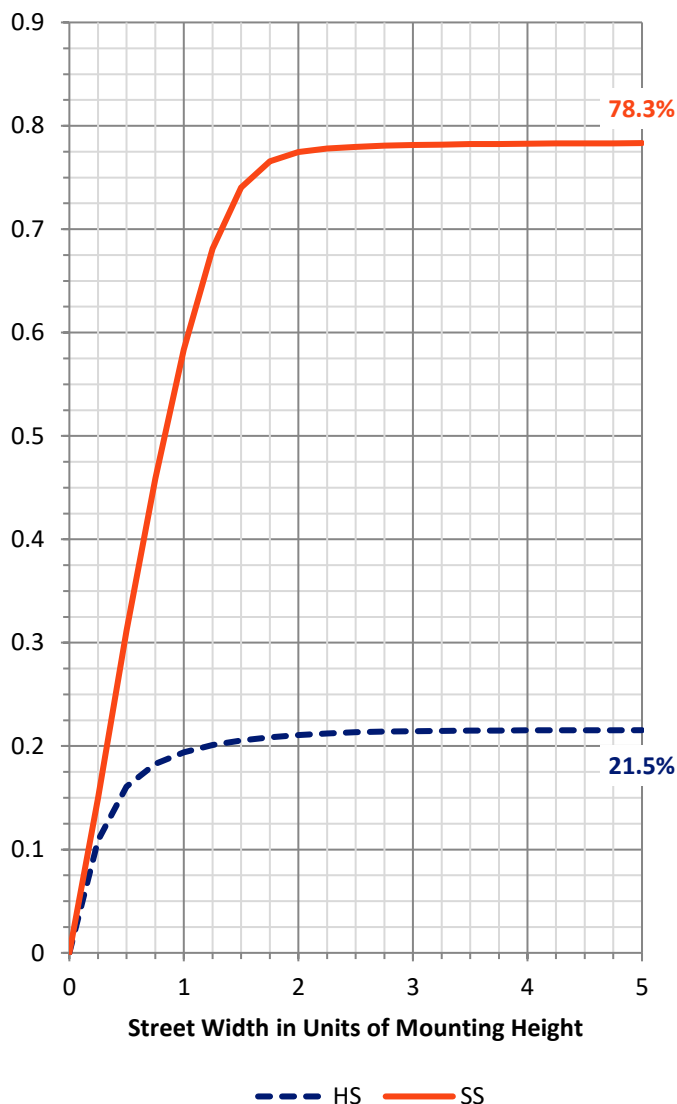
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3479.0	0.0	3479.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12517.7	0.0	12517.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	15996.6	0.0	15996.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	1.9
10°-20°	951.2	5.9
20°-30°	1725.2	10.8
30°-40°	2710.0	16.9
40°-50°	3953.4	24.7
50°-60°	4763.0	29.8
60°-70°	1394.6	8.7
70°-80°	176.9	1.1
80°-90°	24.8	0.2
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°	15996.6	100.0
0°-180°	15996.6	100.0

Coefficient of Utilization

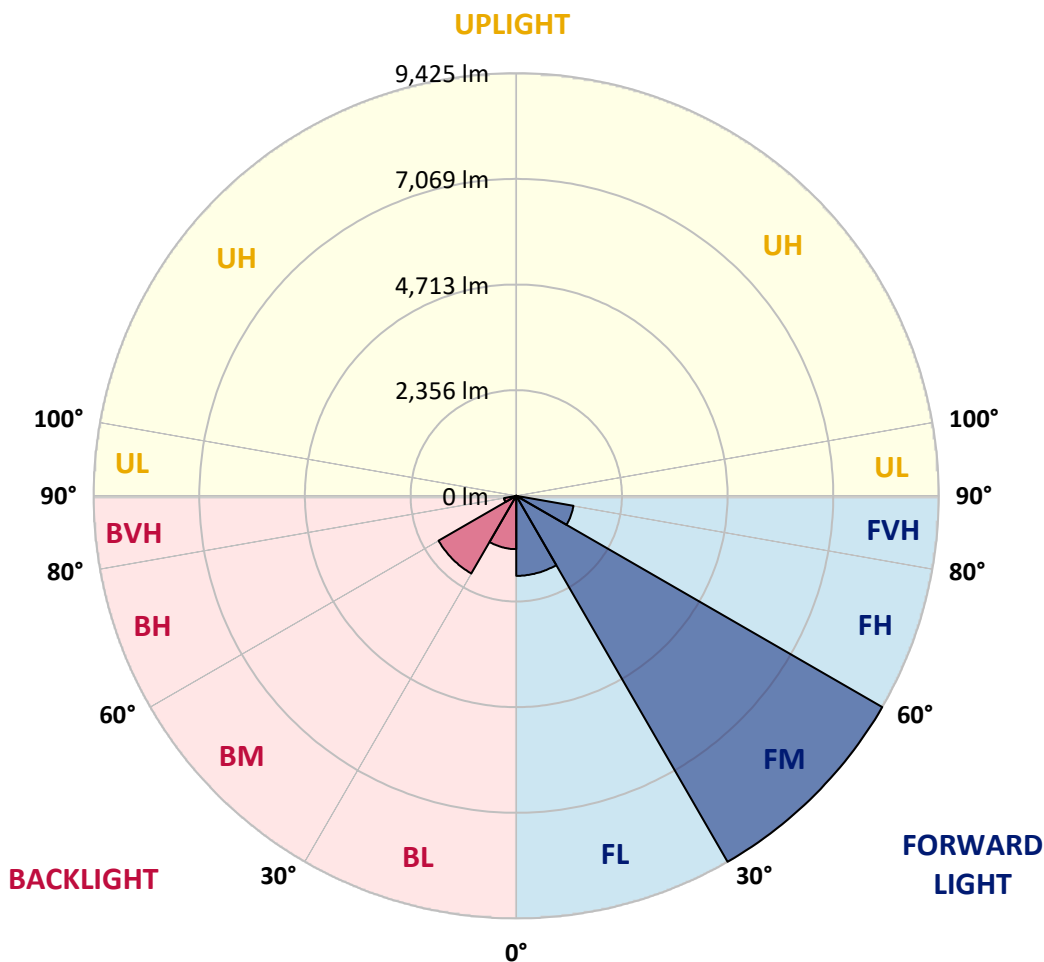


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.9	11.2			
FM (30°-60°)	9425.3	58.9			
FH (60°-80°)	1295.1	8.1			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1189.1	7.4	B3/2500		
BM (30°-60°)	2001.1	12.5	B2/2500		
BH (60°-80°)	276.4	1.7	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4
2.5°	3110.7	3096.1	3096.1	3072.8	3099.1	3087.4	3096.1	3067.0	3096.1	3052.5	3087.4
5°	3125.2	3128.2	3116.5	3131.1	3131.1	3148.5	3119.4	3145.7	3160.2	3128.2	3113.6
7.5°	3201.0	3206.8	3203.9	3192.3	3215.6	3212.6	3209.8	3189.3	3195.2	3183.5	3166.0
10°	3349.5	3346.7	3361.2	3332.0	3314.6	3335.0	3340.8	3308.7	3285.5	3276.7	3221.4
12.5°	3565.1	3530.1	3509.7	3480.6	3489.4	3460.2	3512.7	3457.4	3445.7	3393.3	3337.9
15°	3739.8	3734.0	3736.9	3690.3	3637.9	3649.5	3649.5	3620.4	3602.9	3538.8	3460.2
17.5°	4098.1	3975.7	4002.0	3943.7	3900.1	3897.1	3870.9	3876.8	3830.2	3696.1	3576.8
20°	4377.7	4325.3	4284.5	4185.5	4118.5	4138.9	4127.2	4098.1	4083.6	3908.8	3739.8
22.5°	4628.2	4645.7	4578.7	4552.5	4459.2	4468.0	4491.3	4465.1	4354.4	4173.8	3923.3
25°	4980.7	4960.2	4870.0	4837.9	4750.6	4782.6	4872.8	4852.5	4782.6	4456.4	4066.1
27.5°	5397.1	5327.2	5344.7	5199.1	5114.6	5204.9	5312.7	5414.6	5216.6	4788.4	4235.0
30°	5691.3	5618.5	5612.7	5606.9	5586.4	5691.3	5816.5	5909.8	5749.6	5120.4	4514.6
32.5°	5837.0	5854.5	5903.9	5886.5	6064.1	6279.7	6410.8	6544.7	6343.7	5662.2	4884.5
35°	6224.3	6113.6	6224.3	6236.0	6419.5	6876.8	7042.8	7363.2	7313.7	6428.2	5336.0
37.5°	6451.5	6442.8	6457.4	6568.0	6745.7	7310.7	7546.7	7794.2	7701.0	6888.4	5898.1
40°	6827.2	6850.5	6847.7	6932.1	7127.2	7637.0	7733.1	7934.1	7942.8	7526.3	6725.3
42.5°	7430.2	7337.0	7275.8	7363.2	7637.0	7919.5	8111.7	8071.0	8359.3	8301.1	7788.4
45°	7971.9	8027.3	7936.9	8082.6	8181.7	8333.0	8327.2	8414.6	8781.6	9058.3	8589.4
47.5°	8478.7	8513.7	8557.3	8656.4	8872.0	8895.3	8845.7	8807.9	9314.7	9600.1	9209.8
50°	8781.6	8813.7	9017.5	9195.2	9597.2	9649.6	9678.7	9582.6	9926.3	9958.4	9795.2
52.5°	8700.1	8735.0	9020.5	9605.9	10246.7	10727.3	10639.9	10476.8	10456.4	10581.6	10337.0
55°	7977.7	7945.7	8338.9	9250.6	10450.6	11604.0	11615.6	11443.8	11114.7	11030.2	10255.4
56°	7363.2	7237.9	7738.9	8839.9	10188.5	11528.3	11659.4	11475.9	11167.1	10788.4	9751.6
57.5°	6032.1	6151.5	6649.6	7561.3	9282.6	10983.6	11059.3	11015.7	10782.6	10147.7	8580.6
60°	3326.2	3536.0	3975.7	5091.3	6608.8	8429.2	8490.4	8845.7	8889.4	7770.9	5903.9
62.5°	1412.6	1389.3	1846.6	2668.0	3763.1	5088.4	5202.0	5566.1	5633.1	4479.7	2962.2
65°	573.8	605.9	836.0	1342.7	1989.3	2318.5	2478.7	2598.1	2819.5	1849.5	1092.2
67.5°	378.6	375.8	492.2	766.1	1071.9	1034.0	1034.0	1092.2	1010.7	754.4	471.9
70°	270.9	279.6	352.5	530.1	667.0	495.2	474.7	454.4	515.5	498.0	381.6
72.5°	177.7	189.3	235.9	317.5	346.6	270.9	270.9	326.2	425.2	401.9	311.7
75°	116.5	119.4	145.7	183.5	171.8	139.8	154.4	218.4	308.7	297.1	221.4
77.5°	78.6	81.6	99.1	119.4	96.1	78.6	84.4	110.7	151.5	151.5	116.5
80°	29.1	32.0	40.8	37.8	43.6	55.3	61.1	75.7	90.3	90.3	78.6
82.5°	0.0	2.9	8.7	20.4	32.0	43.6	49.5	58.3	67.0	75.7	72.8
85°	0.0	2.9	8.7	14.5	23.3	26.2	29.1	20.4	17.5	17.5	14.5
87.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.8	2.9	2.9
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°	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4
2.5°	3055.4	3052.5	3052.5	3043.7	3061.2	3052.5	3058.3	3055.4	3017.5	3046.6	3026.3
5°	3087.4	3107.8	3075.8	3069.9	3046.6	3055.4	3055.4	3026.3	3052.5	3049.6	3043.7
7.5°	3169.0	3134.0	3099.1	3064.1	3058.3	3049.6	3017.5	3005.8	3026.3	3003.0	3037.9
10°	3203.9	3209.8	3157.3	3110.7	3067.0	3005.8	2962.2	2935.9	2903.9	2938.9	2959.2
12.5°	3364.1	3305.9	3215.6	3142.7	2994.2	2933.1	2889.3	2877.7	2933.1	2944.7	2924.3
15°	3419.4	3410.7	3294.2	3131.1	2976.7	2903.9	2912.6	2889.3	2895.1	2866.0	2871.8
17.5°	3533.0	3434.1	3297.1	3093.2	2973.8	2956.4	2903.9	2810.7	2758.3	2735.0	2755.4
20°	3658.3	3562.1	3364.1	3107.8	3000.0	2953.4	2781.6	2668.0	2560.3	2502.0	2504.9
22.5°	3768.9	3649.5	3335.0	3113.6	3023.3	2831.1	2624.3	2400.0	2266.1	2175.8	2178.7
25°	3902.9	3734.0	3346.7	3125.2	2962.2	2635.9	2338.8	2120.4	1960.2	1899.1	1919.4
27.5°	3978.7	3786.4	3410.7	3151.5	2802.0	2359.3	2038.8	1835.0	1741.8	1712.6	1709.8
30°	4205.8	3902.9	3489.4	3099.1	2534.0	2062.1	1765.1	1639.8	1549.5	1523.3	1529.1
32.5°	4543.8	4115.6	3591.3	2962.2	2260.2	1797.1	1587.4	1494.2	1409.7	1360.2	1354.3
35°	4826.2	4479.7	3699.1	2749.6	1942.7	1593.2	1462.2	1345.7	1217.5	1162.2	1147.5
37.5°	5365.1	4890.3	3675.8	2429.1	1639.8	1441.7	1328.2	1185.5	1074.8	999.0	990.3
40°	6081.6	5371.0	3562.1	2038.8	1415.6	1307.8	1185.5	1048.6	911.6	847.6	841.8
42.5°	6952.5	5959.2	3355.3	1642.7	1191.3	1173.8	1063.1	905.8	783.5	736.9	739.8
45°	7660.2	6463.2	3145.7	1319.4	1025.3	1042.8	946.6	798.0	713.6	675.7	675.7
47.5°	8289.4	6803.9	2918.4	1089.3	870.9	911.6	827.2	739.8	667.0	637.9	632.0
50°	8895.3	7150.5	2691.3	882.5	742.7	783.5	774.7	704.8	646.6	611.7	614.6
52.5°	9273.9	7205.9	2402.9	722.3	649.5	696.1	725.3	661.2	597.1	576.7	570.9
55°	8810.7	6492.3	1864.1	594.2	550.5	611.7	667.0	594.2	544.6	509.7	506.8
56°	8187.5	5804.9	1558.3	547.6	521.3	588.4	646.6	567.9	512.6	492.2	477.7
57.5°	6932.1	4750.6	1150.5	486.4	483.5	547.6	614.6	541.8	477.7	460.2	460.2
60°	4322.4	2673.8	696.1	407.8	419.4	486.4	553.4	483.5	425.2	425.2	434.0
62.5°	1968.9	1112.6	422.4	346.6	361.2	419.4	492.2	436.9	404.9	436.9	442.7
65°	669.9	480.5	305.8	276.7	285.4	346.6	422.4	442.7	439.8	460.2	471.9
67.5°	375.8	308.7	256.3	230.1	224.3	256.3	346.6	442.7	425.2	416.5	422.4
70°	317.5	262.1	227.2	203.9	195.1	206.8	267.9	335.0	300.0	291.2	285.4
72.5°	256.3	218.4	198.1	183.5	157.3	134.0	122.4	128.2	142.7	151.5	166.0
75°	180.6	166.0	166.0	148.5	113.6	84.4	67.0	55.3	37.8	26.2	29.1
77.5°	101.9	101.9	104.9	90.3	72.8	55.3	40.8	29.1	14.5	5.8	2.9
80°	69.9	75.7	81.6	72.8	61.1	49.5	35.0	20.4	8.7	0.0	0.0
82.5°	69.9	78.6	84.4	72.8	61.1	46.6	35.0	20.4	8.7	2.9	0.0
85°	14.5	17.5	20.4	23.3	35.0	35.0	26.2	17.5	8.7	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	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)