

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: P531712

Luminaire Tested: **GALN-SA7A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26775 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

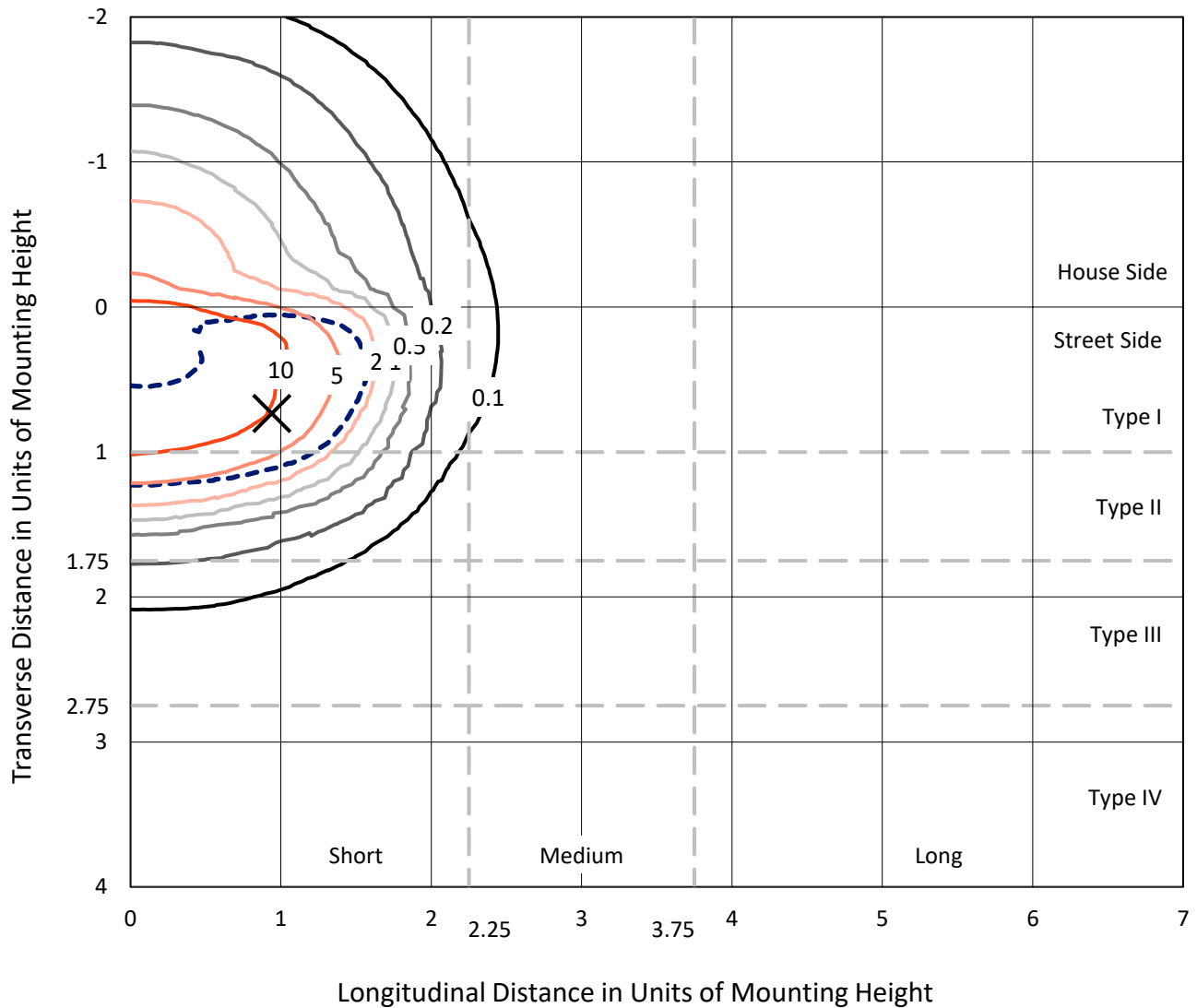
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

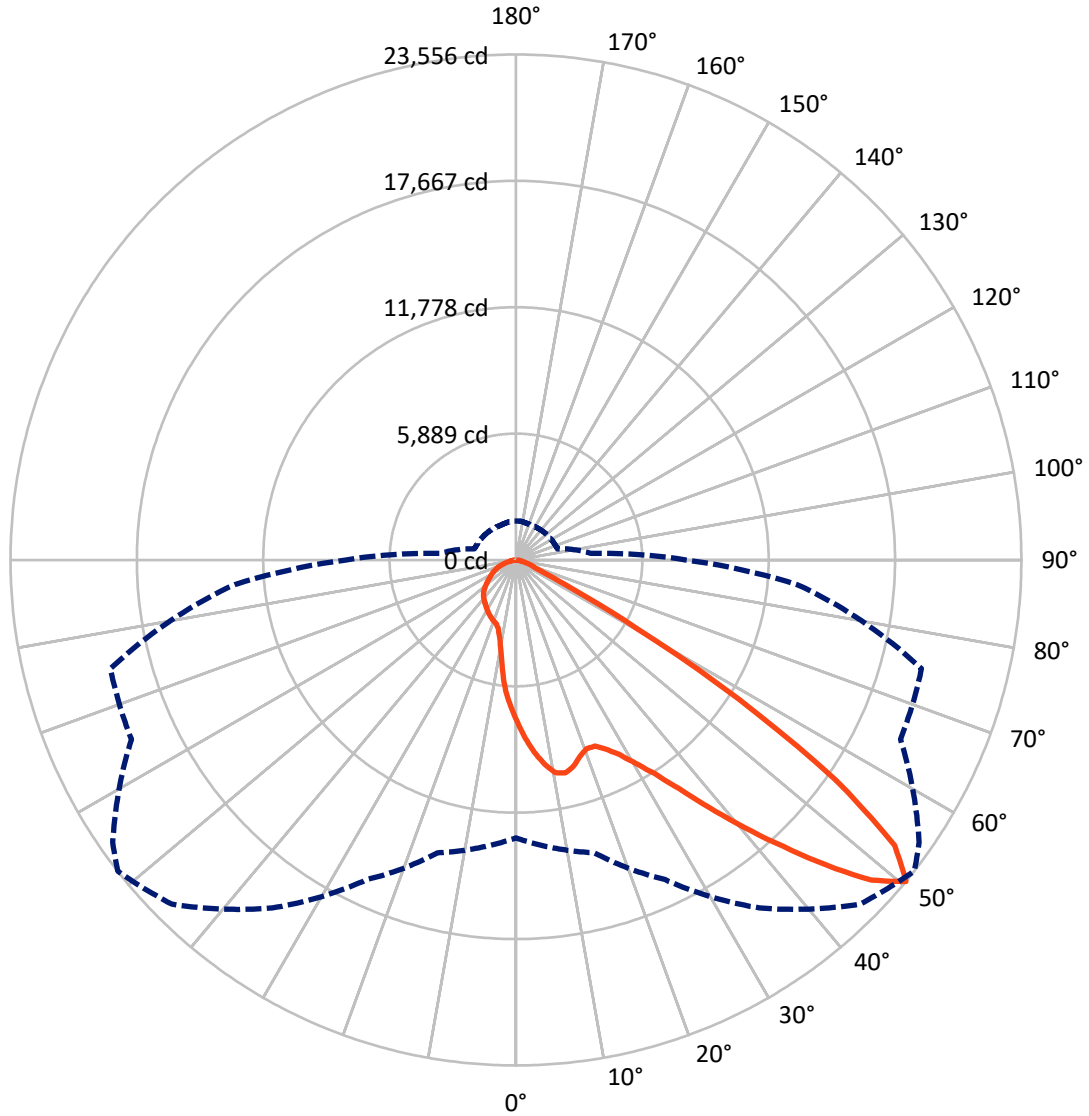
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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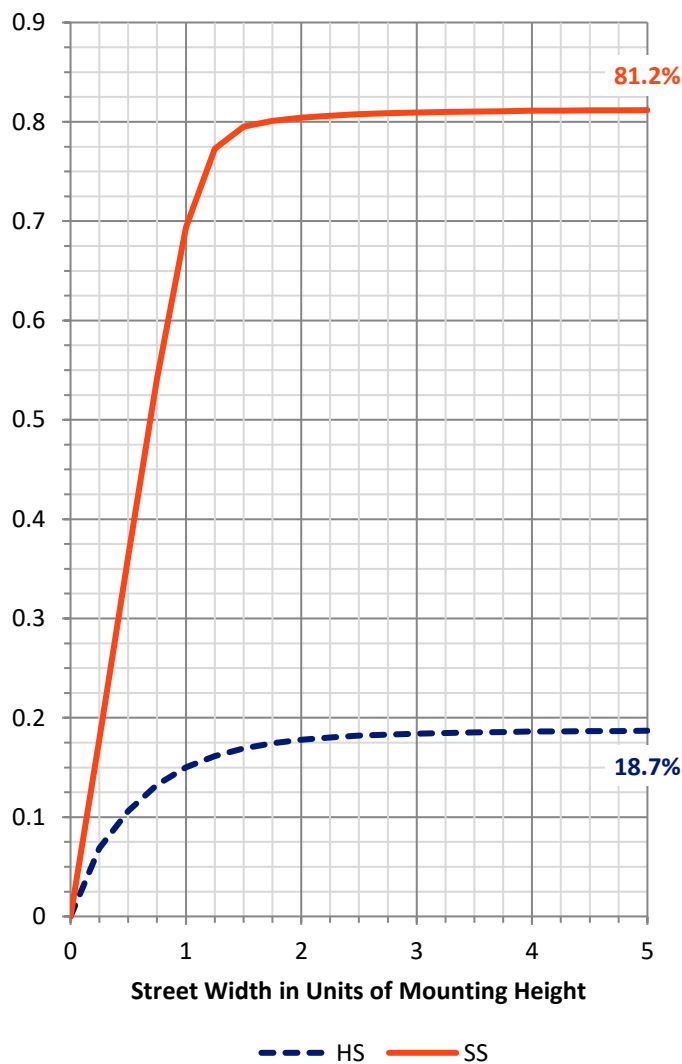
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5033.1	0.0	5033.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21741.9	0.0	21741.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	26775.0	0.0	26775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.6	2.6
10°-20°	1864.5	7.0
20°-30°	3140.7	11.7
30°-40°	5270.3	19.7
40°-50°	8062.3	30.1
50°-60°	5878.1	22.0
60°-70°	1308.2	4.9
70°-80°	471.8	1.8
80°-90°	83.5	0.3
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°	26775.0	100.0
0°-180°	26775.0	100.0

Coefficient of Utilization



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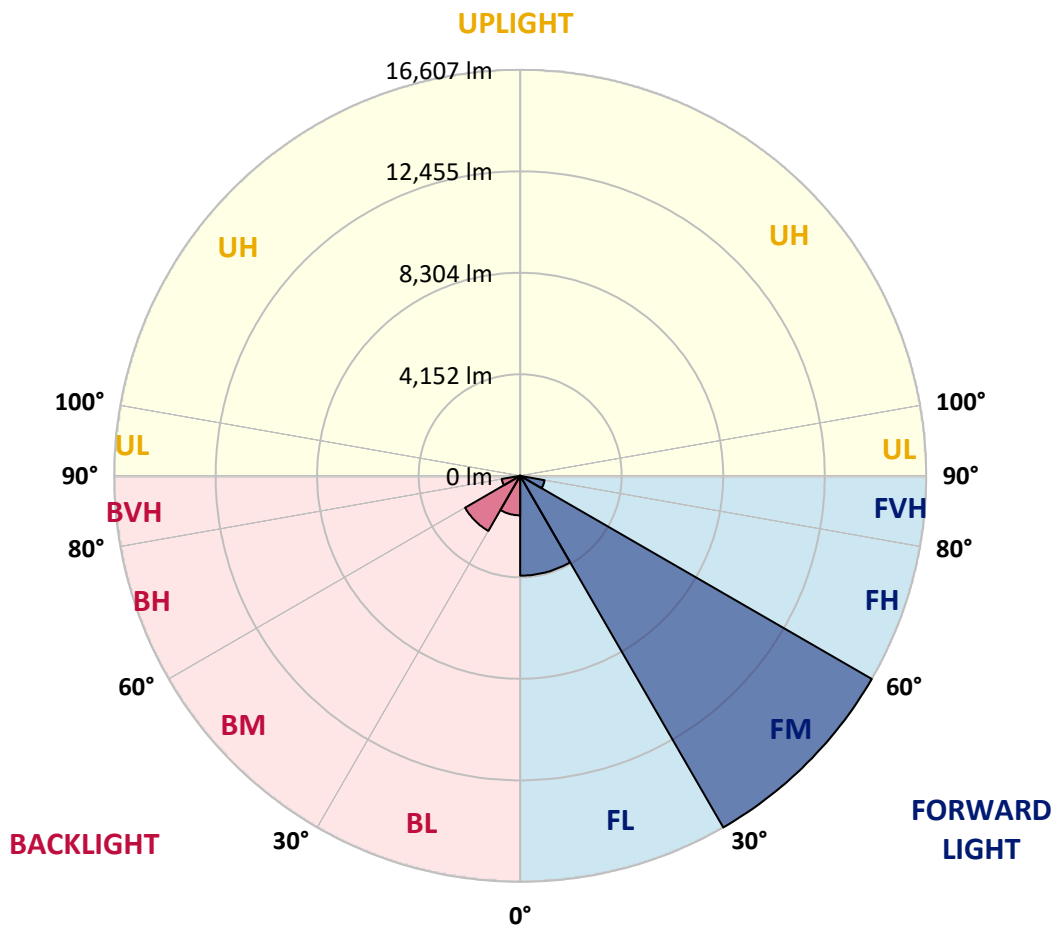
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4084.1	15.3			
FM (30°-60°)	16607.2	62.0			
FH (60°-80°)	1013.2	3.8			G1/1800
FVH (80°-90°)	37.4	0.1			G1/100
BL (0°-30°)	1616.7	6.0	B3/2500		
BM (30°-60°)	2603.4	9.7	B3/5000		
BH (60°-80°)	766.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	46.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4
2.5°	8886.5	8715.5	8734.9	8612.3	8480.0	8441.2	8305.7	8176.6	8079.8	7873.3	7683.0
5°	9712.6	9661.0	9583.5	9486.7	9386.7	9141.5	9002.7	8841.4	8486.4	8167.0	7850.7
7.5°	9832.0	9822.3	9864.3	9864.3	9899.7	9806.2	9609.3	9496.4	9118.9	8599.4	8012.1
10°	8993.0	9022.1	9225.4	9489.9	9857.8	10112.7	10080.4	10051.4	9638.4	8928.5	8202.5
12.5°	8325.1	8260.5	8379.9	8605.8	9157.6	9773.9	10190.2	10193.4	10086.9	9454.5	8341.2
15°	7947.5	7992.7	8025.0	8131.5	8547.7	9260.8	9993.3	10209.5	10677.4	9825.5	8560.6
17.5°	8189.6	8037.9	8031.4	8057.3	8270.2	8805.9	9628.7	9999.8	11000.1	10303.1	8831.7
20°	8505.8	8502.6	8412.2	8379.9	8376.7	8854.3	9389.9	9893.3	11171.1	10922.6	9106.0
22.5°	9060.8	9060.8	8912.4	8841.4	8689.7	9080.1	9422.2	9764.2	11455.1	11348.6	9238.3
25°	9990.1	9838.4	9583.5	9409.3	9322.2	9460.9	9764.2	10070.8	11703.5	11800.3	9512.5
27.5°	10848.4	10609.6	10483.8	10183.7	10067.5	9986.9	10264.4	10574.1	11993.9	12503.8	9661.0
30°	11822.9	11781.0	11555.1	11167.9	10880.7	10732.3	10987.2	11293.7	12526.3	13223.3	10003.0
32.5°	13565.4	13184.6	12878.1	12403.7	11935.8	11619.6	11871.3	12074.6	13410.5	13975.2	10377.3
35°	15446.6	15324.0	14794.8	13939.7	13223.3	12939.4	13087.8	13239.5	14439.8	15123.9	11006.5
37.5°	17295.5	17127.7	16692.1	15972.5	15101.3	14523.7	14630.2	14807.7	15595.0	16672.8	11774.5
40°	18624.9	18418.4	18199.0	18092.5	17227.8	16437.2	16375.9	16421.1	17156.8	18124.8	12626.4
42.5°	18721.8	18976.7	19044.4	19473.6	19270.3	18621.7	18244.2	18253.9	18647.5	19560.7	13487.9
45°	18518.5	18282.9	18783.1	19954.4	20625.6	20928.9	20293.2	20212.5	19570.4	20393.2	13917.1
47.5°	16385.6	16450.1	17295.5	19147.7	21087.0	22442.2	22293.8	22026.0	20064.1	20364.2	13849.3
50°	12952.3	13342.7	14126.8	16434.0	19796.3	22681.0	23555.5	22935.9	19770.5	19563.9	13158.8
52.5°	8625.2	8786.5	9302.8	12281.1	15917.7	20273.8	22103.4	22245.4	19499.4	18515.2	12284.3
55°	3839.9	3827.0	4553.0	6414.8	9986.9	15427.2	18060.3	18925.0	18457.2	17447.2	11432.5
57.5°	1626.3	1681.2	1978.0	2771.8	4911.2	9309.2	12235.9	12994.2	14194.6	14326.9	8770.4
60°	1100.3	1106.8	1187.5	1387.5	2055.5	4372.3	6418.1	7328.0	8186.3	8128.2	4653.0
62.5°	864.8	887.4	948.7	1029.3	1219.7	1984.5	2871.8	3378.4	3433.3	2888.0	1765.0
65°	738.9	742.2	803.5	871.2	955.1	1155.2	1384.3	1410.1	1426.2	1374.6	1297.2
67.5°	609.9	616.3	664.7	742.2	819.6	884.1	948.7	980.9	1055.2	1200.4	1181.0
70°	484.0	493.7	535.6	600.2	671.2	709.9	790.6	819.6	887.4	1000.3	1045.5
72.5°	367.9	371.1	406.6	451.7	516.3	555.0	622.8	655.0	700.2	797.0	839.0
75°	264.6	274.3	300.1	322.7	332.4	358.2	422.7	458.2	522.7	564.7	567.9
77.5°	138.8	145.2	151.7	151.7	183.9	232.3	274.3	293.6	338.8	371.1	354.9
80°	54.9	58.1	74.2	100.0	129.1	167.8	196.8	206.5	245.2	264.6	274.3
82.5°	32.3	35.5	48.4	71.0	93.6	119.4	142.0	151.7	177.5	200.1	206.5
85°	16.1	19.4	29.0	45.2	61.3	74.2	71.0	67.8	67.8	64.5	67.8
87.5°	6.5	6.5	9.7	9.7	9.7	12.9	16.1	16.1	16.1	19.4	19.4
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°	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4	7547.4
2.5°	7557.1	7428.0	7308.6	7089.2	6850.4	6782.7	6505.2	6405.1	6334.2	6250.3	6224.5
5°	7595.8	7424.8	7040.8	6598.8	6247.0	5795.3	5498.4	5179.0	4946.6	4888.6	4872.4
7.5°	7676.5	7382.9	6721.4	6053.4	5333.9	4720.8	4252.9	4001.2	3778.6	3765.6	3743.1
10°	7766.8	7257.0	6372.9	5324.2	4404.5	3836.6	3555.9	3446.2	3391.3	3378.4	3372.0
12.5°	7841.1	7231.2	5982.4	4614.3	3746.3	3404.2	3320.4	3310.7	3333.3	3339.7	3352.6
15°	7873.3	7127.9	5511.3	3978.6	3336.5	3210.6	3246.1	3284.9	3301.0	3342.9	3310.7
17.5°	7934.6	6995.6	4930.5	3475.2	3107.4	3130.0	3191.3	3236.5	3262.3	3291.3	3249.4
20°	7966.9	6876.3	4385.2	3175.1	3026.7	3068.7	3152.6	3188.1	3220.3	3233.2	3184.8
22.5°	7937.9	6631.0	3904.4	2933.1	2949.3	3004.1	3078.3	3117.1	3097.7	3046.1	3017.0
25°	7860.4	6285.8	3404.2	2778.3	2839.6	2936.4	2994.4	2965.4	2929.9	2900.9	2891.2
27.5°	7857.2	5863.1	3042.8	2636.3	2746.0	2878.3	2858.9	2833.1	2849.2	2826.7	2800.8
30°	7873.3	5453.3	2746.0	2555.6	2678.2	2742.8	2765.3	2739.5	2758.9	2716.9	2729.9
32.5°	7789.4	5053.1	2552.4	2462.0	2597.6	2594.3	2668.5	2687.9	2642.7	2555.6	2568.5
35°	7824.9	4730.5	2387.8	2420.1	2507.2	2507.2	2565.3	2542.7	2423.3	2371.7	2384.6
37.5°	8070.2	4414.2	2307.1	2362.0	2420.1	2445.9	2426.5	2329.7	2300.7	2300.7	2307.1
40°	8302.5	4143.2	2258.7	2349.1	2339.4	2355.5	2213.6	2223.2	2223.2	2226.5	2210.3
42.5°	8509.0	3959.3	2220.0	2271.7	2287.8	2203.9	2116.8	2107.1	2129.7	2126.4	2113.5
45°	8583.2	3807.6	2165.2	2184.5	2197.4	2058.7	2016.7	1997.4	2023.2	2032.9	2045.8
47.5°	8299.3	3681.8	2103.9	2065.1	2039.3	1949.0	1894.1	1858.6	1890.9	1945.7	1958.7
50°	7934.6	3517.2	2007.1	1932.8	1878.0	1839.3	1800.5	1765.0	1787.6	1826.4	1816.7
52.5°	7395.8	3259.0	1884.4	1807.0	1713.4	1723.1	1687.6	1668.2	1681.2	1681.2	1671.5
55°	6627.8	2678.2	1677.9	1623.1	1545.6	1571.4	1577.9	1552.1	1526.3	1548.9	1529.5
57.5°	4523.9	1890.9	1497.2	1497.2	1419.8	1455.3	1452.0	1390.7	1329.4	1335.9	1323.0
60°	2616.9	1506.9	1381.1	1368.2	1287.5	1316.5	1323.0	1281.0	1187.5	1193.9	1181.0
62.5°	1487.5	1287.5	1206.8	1187.5	1171.3	1197.1	1197.1	1142.3	1061.6	1068.1	1055.2
65°	1264.9	1193.9	1077.7	1074.5	1068.1	1074.5	1048.7	990.6	919.6	890.6	893.8
67.5°	1148.7	1103.6	990.6	961.6	942.2	939.0	890.6	835.7	803.5	777.7	774.4
70°	1006.8	971.3	887.4	848.6	829.3	784.1	735.7	700.2	655.0	642.1	655.0
72.5°	797.0	793.8	761.5	719.6	677.6	642.1	600.2	551.8	509.8	500.2	477.6
75°	551.8	558.2	564.7	558.2	522.7	477.6	429.2	390.4	338.8	309.8	303.3
77.5°	361.4	371.1	380.8	367.9	345.3	303.3	271.0	222.6	183.9	161.3	158.1
80°	264.6	277.5	284.0	274.3	248.5	216.2	180.7	142.0	112.9	93.6	93.6
82.5°	203.3	216.2	222.6	206.5	180.7	154.9	129.1	100.0	77.4	61.3	58.1
85°	71.0	67.8	80.7	83.9	100.0	93.6	77.4	58.1	45.2	32.3	29.0
87.5°	19.4	19.4	22.6	22.6	19.4	16.1	16.1	16.1	12.9	9.7	9.7
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)