

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: P648143

Luminaire Tested: **GALN-SA9A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648143
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-SA9A-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 29292 lumens
Efficiency: N/A
Efficacy: 106.9 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

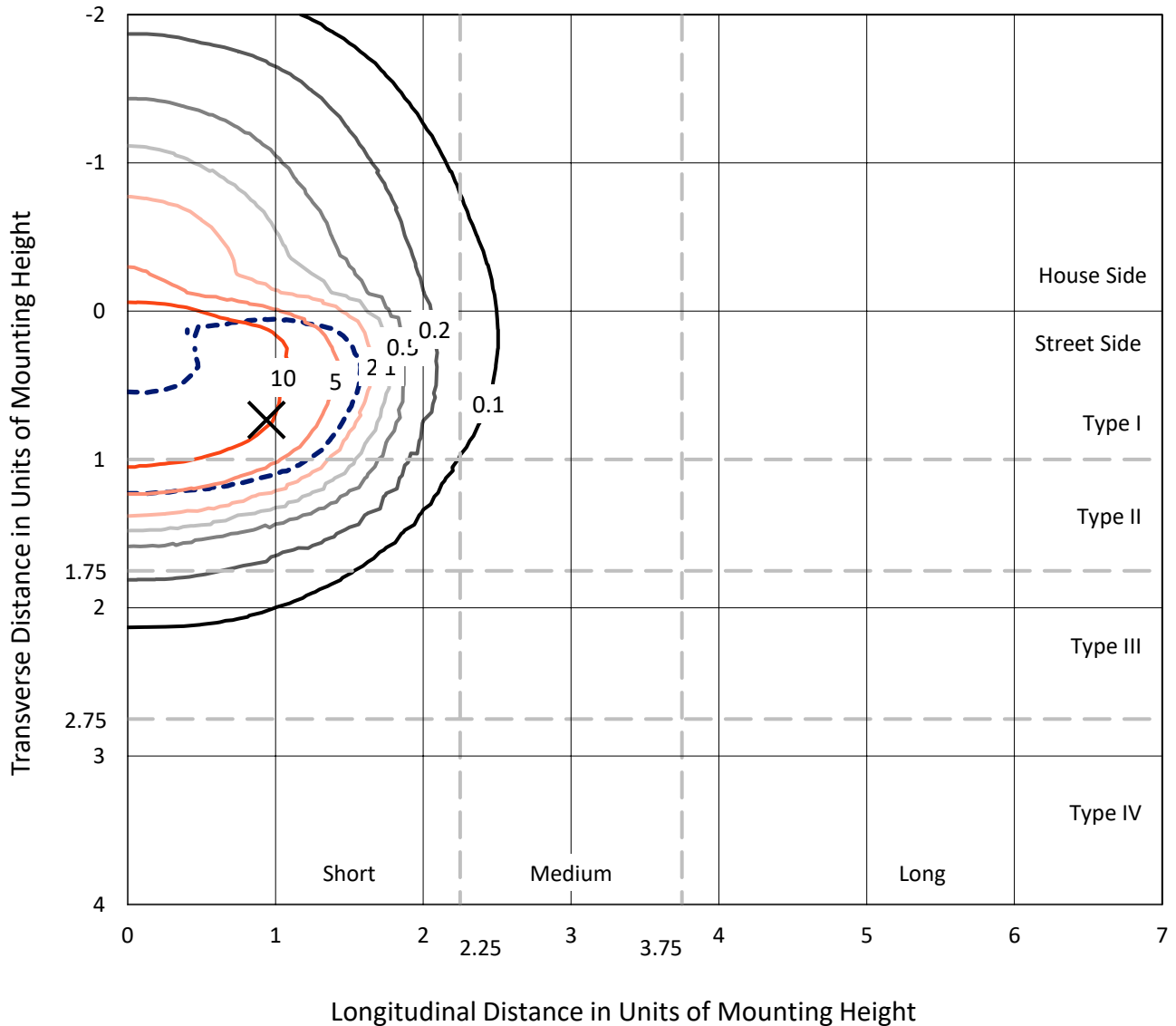
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

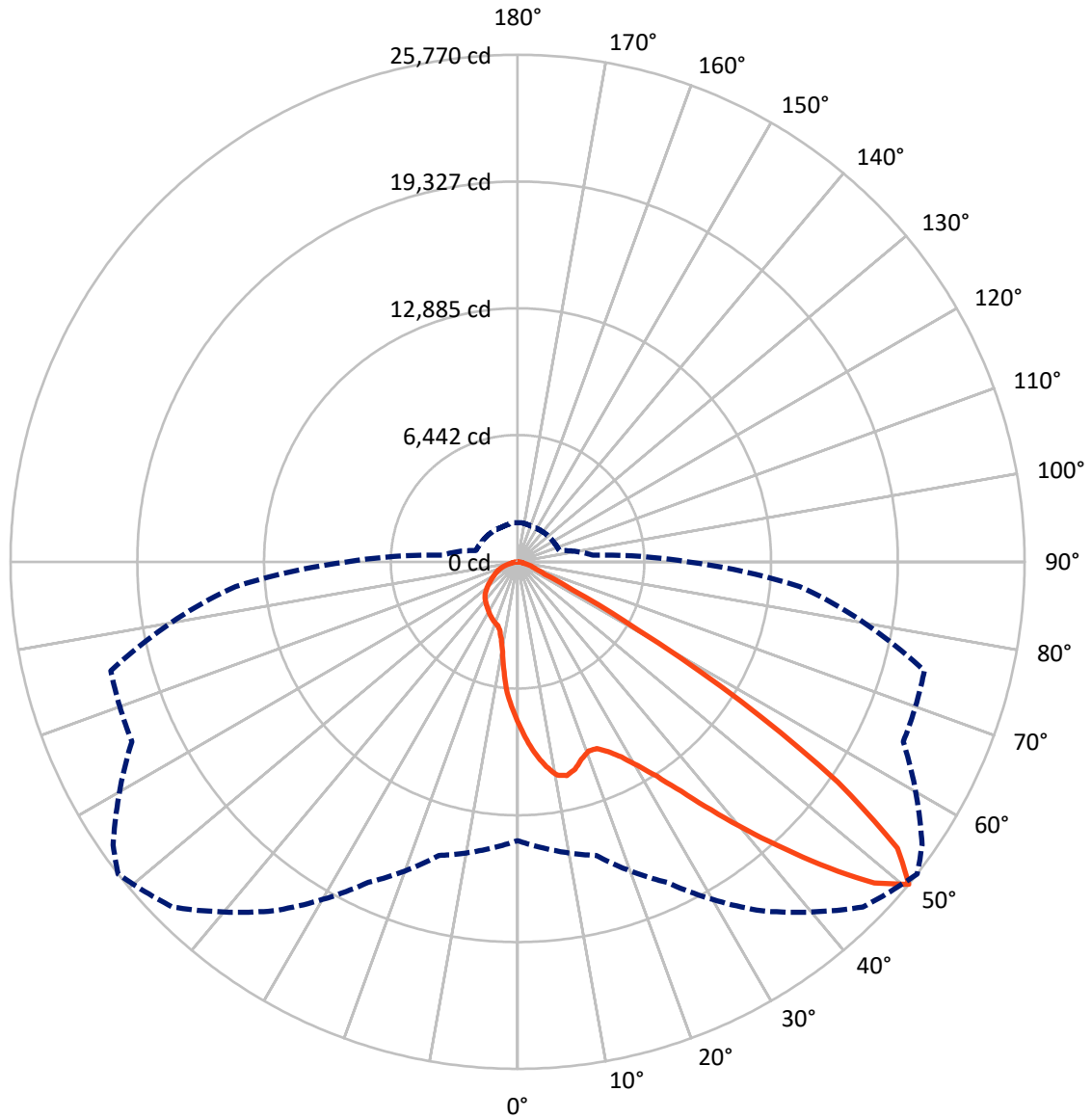
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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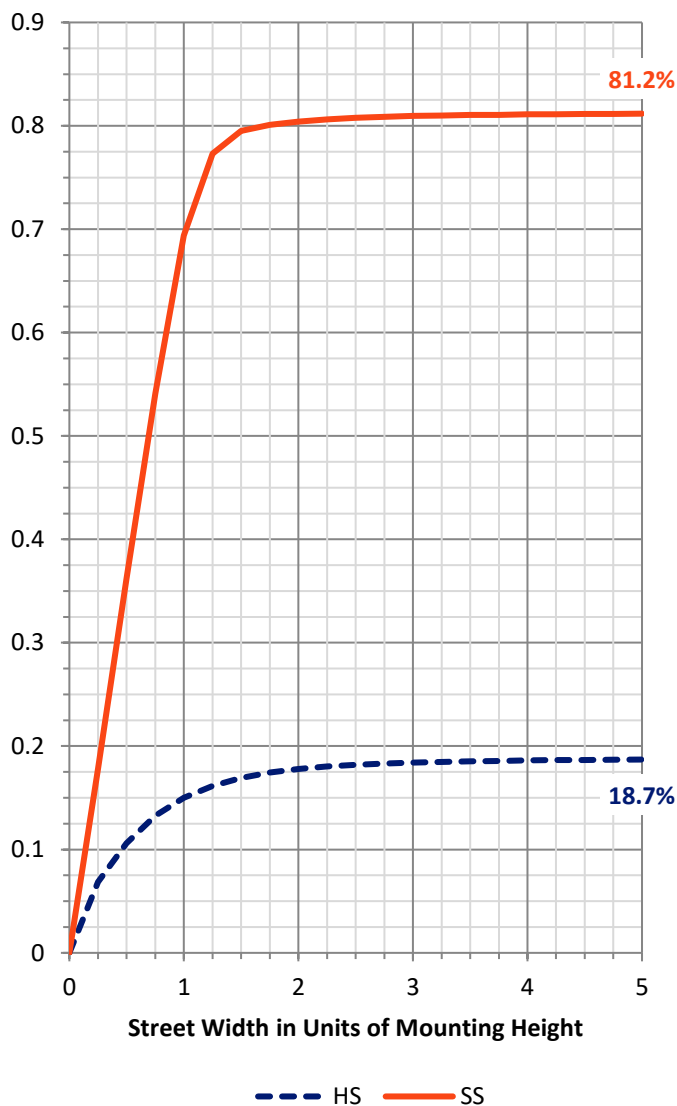
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5506.2	0.0	5506.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23785.8	0.0	23785.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	29292.0	0.0	29292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.0	2.6
10°-20°	2039.8	7.0
20°-30°	3435.9	11.7
30°-40°	5765.8	19.7
40°-50°	8820.2	30.1
50°-60°	6430.6	22.0
60°-70°	1431.1	4.9
70°-80°	516.2	1.8
80°-90°	91.4	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°	29292.0	100.0
0°-180°	29292.0	100.0

Coefficient of Utilization

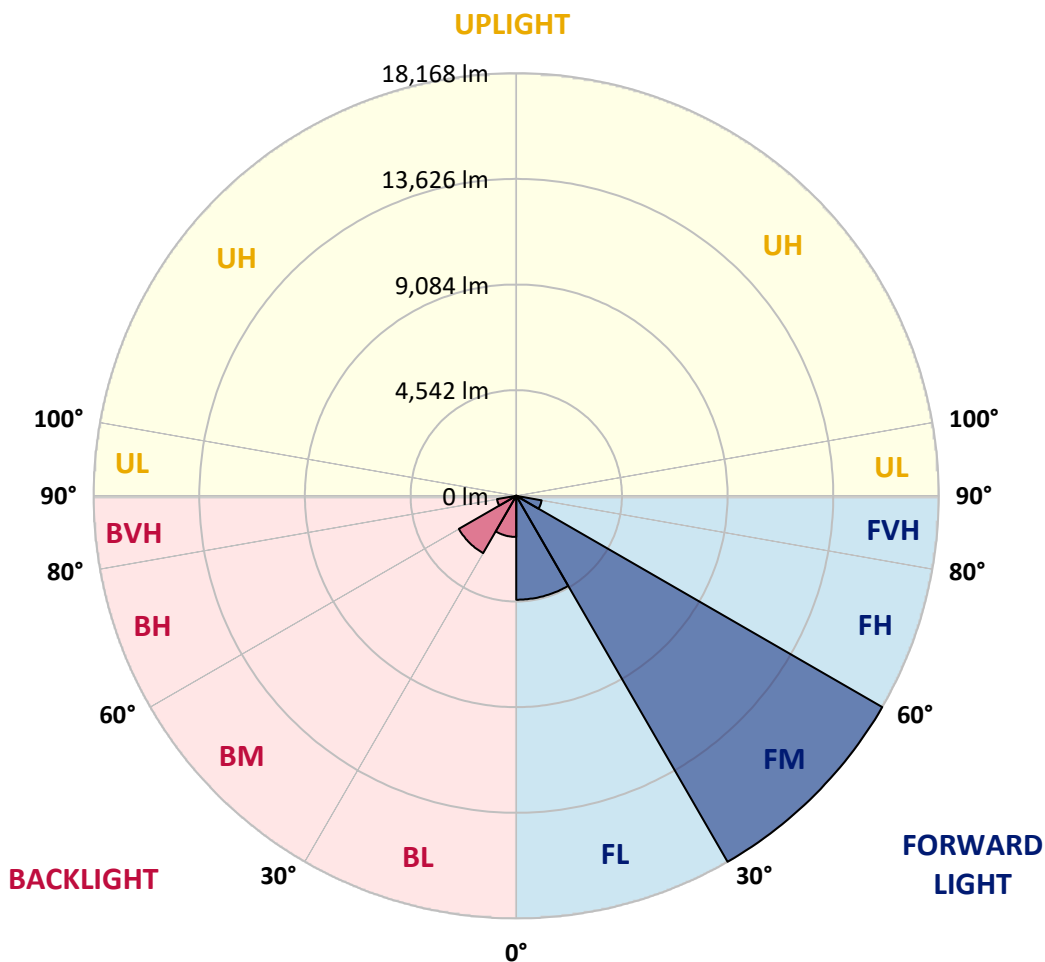


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4468.0	15.3			
FM (30°-60°)	18168.4	62.0			
FH (60°-80°)	1108.4	3.8			G1/1800
FVH (80°-90°)	40.9	0.1			G1/100
BL (0°-30°)	1768.7	6.0	B3/2500		
BM (30°-60°)	2848.2	9.7	B3/5000		
BH (60°-80°)	838.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.4	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°	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0
2.5°	9722.0	9534.8	9556.0	9421.8	9277.1	9234.8	9086.5	8945.3	8839.4	8613.5	8405.2
5°	10625.6	10569.2	10484.4	10378.5	10269.1	10000.8	9849.0	9672.5	9284.2	8934.7	8588.8
7.5°	10756.2	10745.7	10791.5	10791.5	10830.4	10728.0	10512.7	10389.2	9976.1	9407.7	8765.3
10°	9838.4	9870.2	10092.6	10382.0	10784.5	11063.4	11028.1	10996.3	10544.4	9767.8	8973.6
12.5°	9107.7	9037.1	9167.7	9414.8	10018.5	10692.7	11148.1	11151.6	11035.1	10343.3	9125.3
15°	8694.7	8744.1	8779.4	8895.9	9351.3	10131.4	10932.8	11169.3	11681.2	10749.2	9365.4
17.5°	8959.4	8793.5	8786.4	8814.7	9047.7	9633.7	10533.9	10939.8	12034.2	11271.7	9661.9
20°	9305.4	9301.9	9203.0	9167.7	9164.2	9686.6	10272.6	10823.3	12221.2	11949.4	9962.0
22.5°	9912.5	9912.5	9750.2	9672.5	9506.6	9933.8	10308.0	10682.2	12531.9	12415.4	10106.7
25°	10929.3	10763.4	10484.4	10293.8	10198.5	10350.3	10682.2	11017.5	12803.7	12909.6	10406.8
27.5°	11868.2	11607.0	11469.3	11141.1	11014.0	10925.7	11229.3	11568.2	13121.4	13679.2	10569.2
30°	12934.4	12888.4	12641.4	12217.7	11903.6	11741.2	12020.1	12355.4	13703.9	14466.4	10943.4
32.5°	14840.6	14424.0	14088.7	13569.8	13057.9	12711.9	12987.3	13209.7	14671.1	15288.9	11352.9
35°	16898.6	16764.5	16185.5	15250.1	14466.4	14155.8	14318.2	14484.1	15797.3	16545.7	12041.2
37.5°	18921.4	18737.8	18261.3	17474.1	16520.9	15889.0	16005.5	16199.7	17061.0	18240.1	12881.4
40°	20375.9	20149.9	19909.8	19793.4	18847.3	17982.4	17915.4	17964.8	18769.6	19828.6	13813.4
42.5°	20481.7	20760.6	20834.8	21304.3	21081.8	20372.3	19959.3	19969.9	20400.5	21399.5	14755.9
45°	20259.3	20001.7	20548.8	21830.2	22564.5	22896.3	22200.9	22112.6	21410.1	22310.3	15225.4
47.5°	17925.9	17996.6	18921.4	20947.7	23069.3	24552.0	24389.6	24096.6	21950.2	22278.5	15151.3
50°	14169.9	14597.0	15454.9	17978.9	21657.2	24813.2	25769.9	25092.0	21629.0	21403.1	14395.8
52.5°	9436.0	9612.5	10177.4	13435.7	17414.1	22179.7	24181.3	24336.6	21332.4	20255.8	13439.2
55°	4200.9	4186.7	4981.0	7017.9	10925.7	16877.5	19758.1	20704.1	20192.2	19087.3	12507.2
57.5°	1779.2	1839.2	2164.0	3032.4	5372.9	10184.4	13386.2	14215.8	15529.0	15673.7	9594.9
60°	1203.8	1210.8	1299.1	1517.9	2248.7	4783.3	7021.4	8016.9	8955.9	8892.4	5090.4
62.5°	946.1	970.8	1037.9	1126.1	1334.4	2171.0	3141.8	3696.0	3756.1	3159.5	1931.0
65°	808.4	811.9	879.0	953.1	1044.9	1263.8	1514.4	1542.7	1560.3	1503.8	1419.1
67.5°	667.2	674.2	727.2	811.9	896.6	967.2	1037.9	1073.2	1154.4	1313.2	1292.0
70°	529.5	540.1	586.0	656.6	734.3	776.7	864.9	896.6	970.8	1094.3	1143.7
72.5°	402.5	406.0	444.8	494.2	564.9	607.2	681.3	716.6	766.0	871.9	917.8
75°	289.5	300.0	328.3	353.0	363.6	391.8	462.4	501.3	571.9	617.8	621.3
77.5°	151.8	158.9	165.9	165.9	201.2	254.2	300.0	321.3	370.7	406.0	388.3
80°	60.0	63.6	81.2	109.5	141.2	183.5	215.3	225.9	268.3	289.5	300.0
82.5°	35.3	38.8	52.9	77.7	102.3	130.6	155.3	165.9	194.2	218.8	225.9
85°	17.6	21.2	31.8	49.4	67.1	81.2	77.7	74.2	74.2	70.6	74.2
87.5°	7.0	7.0	10.6	10.6	10.6	14.1	17.6	17.6	17.6	21.2	21.2
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°	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0	8257.0
2.5°	8267.5	8126.3	7995.7	7755.7	7494.4	7420.3	7116.7	7007.3	6929.6	6837.9	6809.6
5°	8309.9	8122.8	7702.7	7219.1	6834.3	6340.1	6015.3	5665.9	5411.7	5348.1	5330.5
7.5°	8398.1	8076.9	7353.2	6622.5	5835.3	5164.6	4652.7	4377.4	4133.8	4119.7	4094.9
10°	8497.0	7939.2	6972.0	5824.7	4818.6	4197.3	3890.2	3770.1	3710.2	3696.0	3688.9
12.5°	8578.2	7911.0	6544.9	5048.1	4098.5	3724.3	3632.5	3621.9	3646.6	3653.6	3667.8
15°	8613.5	7798.1	6029.4	4352.6	3650.1	3512.5	3551.3	3593.7	3611.3	3657.2	3621.9
17.5°	8680.6	7653.3	5394.0	3801.9	3399.5	3424.2	3491.3	3540.7	3568.9	3600.7	3554.8
20°	8715.9	7522.7	4797.4	3473.6	3311.2	3357.1	3449.0	3487.7	3523.0	3537.2	3484.2
22.5°	8684.1	7254.4	4271.4	3208.9	3226.5	3286.6	3367.8	3410.1	3388.9	3332.4	3300.7
25°	8599.4	6876.7	3724.3	3039.4	3106.5	3212.4	3275.9	3244.2	3205.4	3173.6	3163.0
27.5°	8595.9	6414.2	3328.9	2884.1	3004.1	3148.8	3127.7	3099.4	3117.1	3092.4	3064.1
30°	8613.5	5965.9	3004.1	2795.9	2930.0	3000.6	3025.3	2997.1	3018.2	2972.3	2986.4
32.5°	8521.7	5528.1	2792.3	2693.4	2841.7	2838.2	2919.4	2940.6	2891.1	2795.9	2810.0
35°	8560.5	5175.2	2612.3	2647.6	2742.9	2742.9	2806.4	2781.8	2651.1	2594.6	2608.7
37.5°	8828.8	4829.2	2524.0	2584.1	2647.6	2675.8	2654.7	2548.7	2517.0	2517.0	2524.0
40°	9083.0	4532.6	2471.1	2569.9	2559.3	2577.0	2421.7	2432.2	2432.2	2435.8	2418.1
42.5°	9308.9	4331.5	2428.7	2485.2	2502.9	2411.1	2315.7	2305.2	2329.9	2326.4	2312.2
45°	9390.1	4165.6	2368.7	2389.9	2404.0	2252.2	2206.3	2185.1	2213.4	2224.0	2238.1
47.5°	9079.4	4027.8	2301.6	2259.3	2231.0	2132.2	2072.2	2033.4	2068.7	2128.7	2142.8
50°	8680.6	3847.8	2195.8	2114.6	2054.5	2012.2	1969.8	1931.0	1955.7	1998.1	1987.5
52.5°	8091.1	3565.4	2061.6	1976.8	1874.5	1885.1	1846.2	1825.1	1839.2	1839.2	1828.6
55°	7250.9	2930.0	1835.7	1775.6	1690.9	1719.2	1726.2	1698.0	1669.7	1694.5	1673.3
57.5°	4949.2	2068.7	1638.0	1638.0	1553.2	1592.1	1588.6	1521.4	1454.4	1461.5	1447.4
60°	2863.0	1648.5	1510.9	1496.8	1408.5	1440.3	1447.4	1401.5	1299.1	1306.1	1292.0
62.5°	1627.4	1408.5	1320.3	1299.1	1281.5	1309.6	1309.6	1249.7	1161.4	1168.5	1154.4
65°	1383.8	1306.1	1179.0	1175.5	1168.5	1175.5	1147.3	1083.8	1006.1	974.3	977.8
67.5°	1256.7	1207.3	1083.8	1052.0	1030.8	1027.3	974.3	914.3	879.0	850.7	847.2
70°	1101.4	1062.5	970.8	928.4	907.3	857.9	804.8	766.0	716.6	702.5	716.6
72.5°	871.9	868.4	833.1	787.2	741.3	702.5	656.6	603.6	557.7	547.2	522.5
75°	603.6	610.7	617.8	610.7	571.9	522.5	469.5	427.1	370.7	338.9	331.8
77.5°	395.3	406.0	416.6	402.5	377.7	331.8	296.5	243.6	201.2	176.5	173.0
80°	289.5	303.6	310.6	300.0	271.9	236.5	197.7	155.3	123.6	102.3	102.3
82.5°	222.4	236.5	243.6	225.9	197.7	169.4	141.2	109.5	84.7	67.1	63.6
85°	77.7	74.2	88.2	91.8	109.5	102.3	84.7	63.6	49.4	35.3	31.8
87.5°	21.2	21.2	24.7	24.7	21.2	17.6	17.6	17.6	14.1	10.6	10.6
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)