

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: P652598

Luminaire Tested: **GALN-SA9B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652598
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-SA9B-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA 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: 39146.9 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

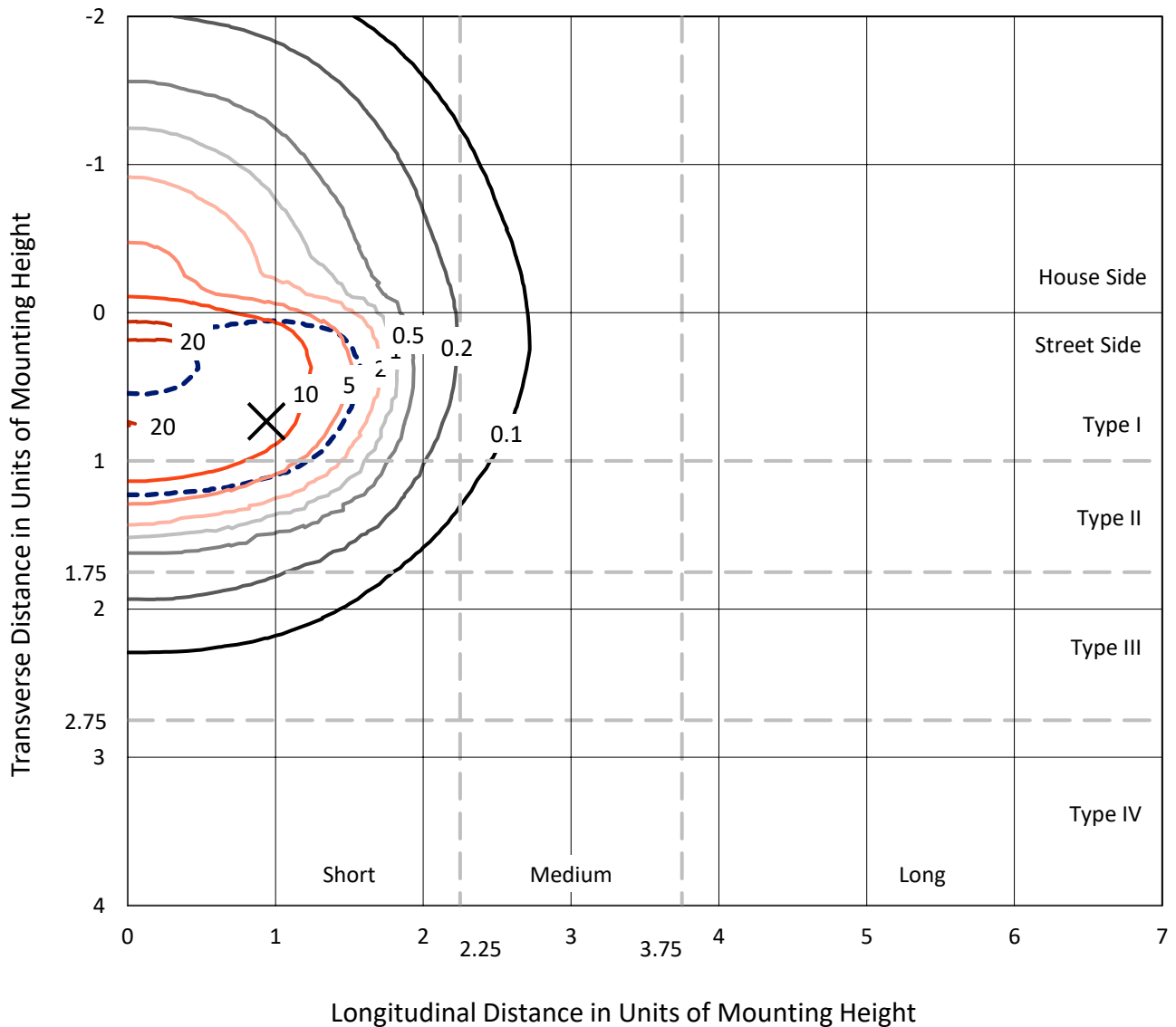
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

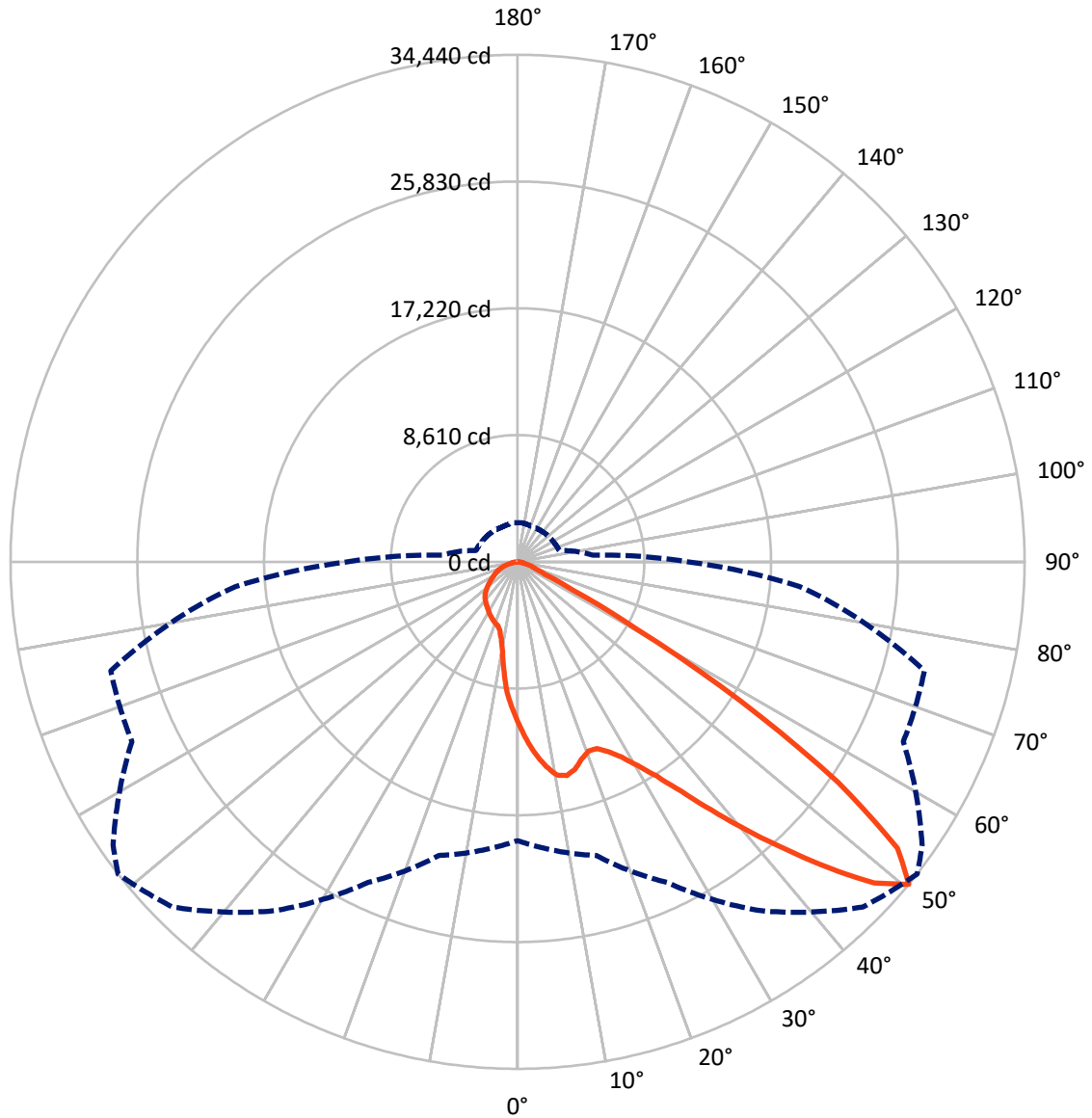
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 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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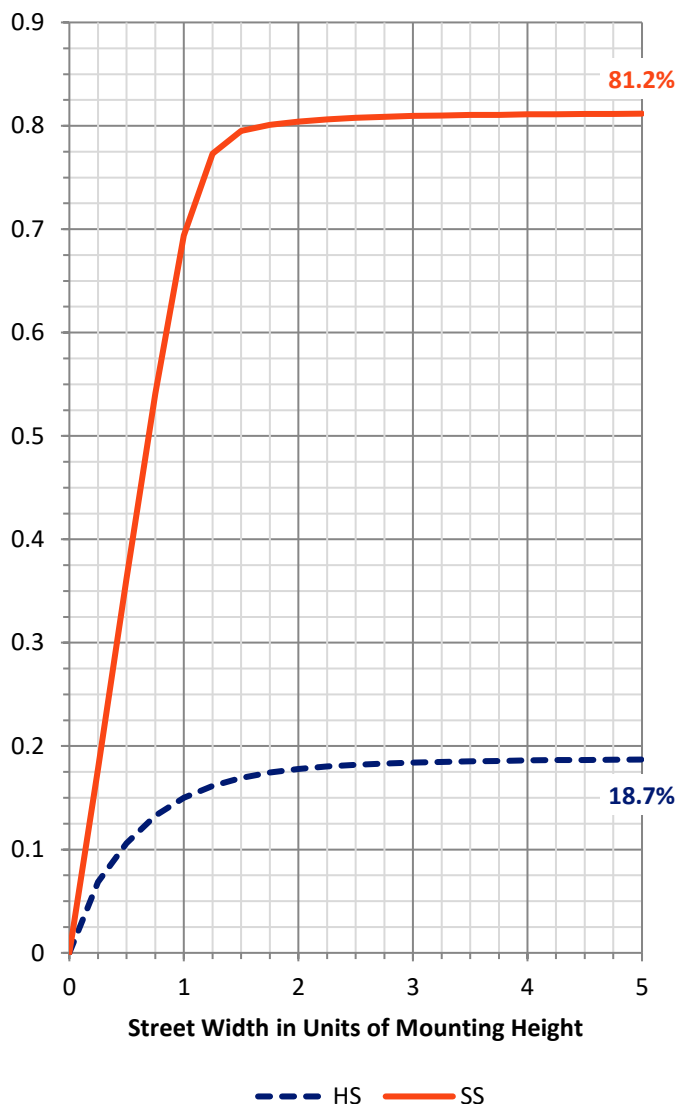
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7358.7	0.0	7358.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31788.2	0.0	31788.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	39146.9	0.0	39146.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.1	2.6
10°-20°	2726.0	7.0
20°-30°	4591.9	11.7
30°-40°	7705.6	19.7
40°-50°	11787.6	30.1
50°-60°	8594.1	22.0
60°-70°	1912.6	4.9
70°-80°	689.9	1.8
80°-90°	122.1	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°	39146.9	100.0
0°-180°	39146.9	100.0

Coefficient of Utilization

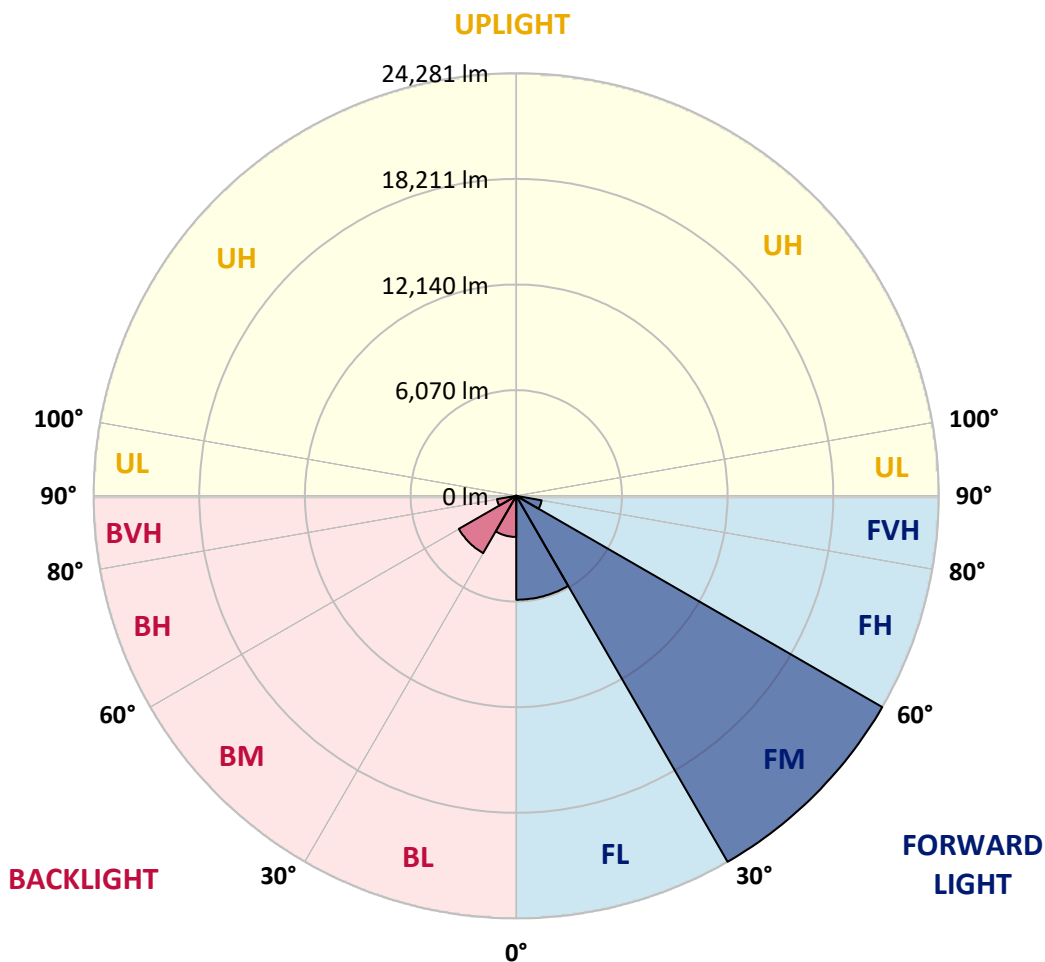


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5971.2	15.3			
FM (30°-60°)	24280.9	62.0			
FH (60°-80°)	1481.4	3.8			G1/1800
FVH (80°-90°)	54.7	0.1			G1/100
BL (0°-30°)	2363.8	6.0	B3/2500		
BM (30°-60°)	3806.4	9.7	B3/5000		
BH (60°-80°)	1121.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	67.4	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8
2.5°	12992.7	12742.7	12771.0	12591.7	12398.3	12341.7	12143.5	11954.8	11813.3	11511.4	11233.0
5°	14200.5	14125.0	14011.7	13870.2	13723.9	13365.4	13162.6	12926.7	12407.7	11940.7	11478.3
7.5°	14375.0	14360.9	14422.2	14422.2	14474.1	14337.3	14049.5	13884.4	13332.4	12572.9	11714.2
10°	13148.4	13190.8	13488.1	13875.0	14412.8	14785.5	14738.3	14695.8	14092.0	13054.1	11992.6
12.5°	12171.8	12077.5	12252.0	12582.3	13389.1	14290.1	14898.7	14903.4	14747.8	13823.0	12195.4
15°	11619.8	11685.9	11733.0	11888.8	12497.3	13540.0	14610.9	14927.0	15611.1	14365.6	12516.3
17.5°	11973.7	11752.0	11742.5	11780.2	12091.6	12874.8	14077.8	14620.4	16082.9	15063.8	12912.5
20°	12436.0	12431.3	12299.2	12252.0	12247.3	12945.5	13728.7	14464.7	16332.9	15969.7	13313.5
22.5°	13247.5	13247.5	13030.5	12926.7	12704.9	13275.8	13775.9	14276.0	16748.1	16592.3	13507.0
25°	14606.2	14384.5	14011.7	13757.0	13629.6	13832.5	14276.0	14724.1	17111.3	17252.9	13908.0
27.5°	15861.1	15512.0	15328.0	14889.2	14719.4	14601.4	15007.2	15460.1	17535.9	18281.3	14125.0
30°	17285.9	17224.5	16894.3	16328.2	15908.3	15691.3	16064.0	16512.2	18314.4	19333.4	14625.1
32.5°	19833.5	19276.8	18828.6	18135.1	17451.0	16988.7	17356.6	17653.9	19607.1	20432.6	15172.3
35°	22584.0	22404.7	21630.9	20380.7	19333.4	18918.2	19135.3	19357.0	21112.0	22112.2	16092.3
37.5°	25287.2	25041.9	24405.0	23353.0	22079.1	21234.7	21390.3	21649.9	22800.9	24376.7	17215.1
40°	27230.9	26929.0	26608.2	26452.5	25188.1	24032.3	23942.7	24008.7	25084.3	26499.7	18460.6
42.5°	27372.4	27745.2	27844.2	28471.7	28174.5	27226.2	26674.2	26688.4	27264.0	28599.1	19720.3
45°	27075.2	26730.8	27462.1	29174.6	30156.0	30599.4	29670.1	29552.1	28613.3	29816.3	20347.7
47.5°	23956.8	24051.2	25287.2	27995.2	30830.6	32812.0	32595.1	32203.5	29335.1	29773.8	20248.7
50°	18937.1	19507.9	20654.4	24027.5	28943.5	33161.1	34439.7	33533.9	28905.8	28603.8	19239.1
52.5°	12610.6	12846.4	13601.3	17955.9	23272.7	29641.7	32316.7	32524.2	28509.5	27070.5	17960.6
55°	5614.2	5595.3	6656.8	9378.9	14601.4	22555.6	26405.3	27669.7	26985.6	25509.0	16715.0
57.5°	2377.8	2458.0	2892.0	4052.5	7180.5	13610.7	17889.8	18998.4	20753.4	20946.9	12822.9
60°	1608.7	1618.2	1736.2	2028.7	3005.2	6392.6	9383.6	10714.0	11968.9	11884.1	6803.0
62.5°	1264.4	1297.4	1387.1	1505.0	1783.3	2901.4	4198.8	4939.5	5019.7	4222.4	2580.6
65°	1080.3	1085.1	1174.7	1273.8	1396.5	1689.0	2024.0	2061.6	2085.3	2009.7	1896.5
67.5°	891.6	901.1	971.9	1085.1	1198.3	1292.7	1387.1	1434.2	1542.7	1755.0	1726.7
70°	707.7	721.8	783.1	877.5	981.3	1037.9	1155.9	1198.3	1297.4	1462.5	1528.5
72.5°	537.8	542.5	594.4	660.5	754.9	811.5	910.6	957.7	1023.7	1165.3	1226.6
75°	386.9	401.0	438.7	471.8	485.9	523.7	618.1	669.9	764.3	825.6	830.3
77.5°	202.8	212.3	221.8	221.8	269.0	339.7	401.0	429.3	495.3	542.5	519.0
80°	80.2	84.9	108.5	146.2	188.7	245.3	287.8	301.9	358.5	386.9	401.0
82.5°	47.2	51.9	70.7	103.8	136.8	174.6	207.6	221.8	259.4	292.5	301.9
85°	23.5	28.3	42.5	66.0	89.7	108.5	103.8	99.1	99.1	94.4	99.1
87.5°	9.4	9.4	14.1	14.1	14.1	18.8	23.5	23.5	23.5	28.3	28.3
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°	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8	11034.8
2.5°	11049.0	10860.3	10685.7	10364.9	10015.8	9916.7	9511.0	9364.8	9261.0	9138.3	9100.5
5°	11105.7	10855.5	10294.2	9647.9	9133.6	8473.1	8039.0	7572.0	7232.3	7147.4	7123.9
7.5°	11223.6	10794.2	9827.1	8850.5	7798.4	6902.1	6218.0	5850.0	5524.5	5505.6	5472.6
10°	11355.7	10610.2	9317.6	7784.3	6439.8	5609.4	5199.0	5038.6	4958.4	4939.5	4930.0
12.5°	11464.2	10572.5	8746.7	6746.4	5477.3	4977.2	4854.6	4840.5	4873.4	4882.8	4901.8
15°	11511.4	10421.5	8058.0	5817.0	4878.1	4694.2	4746.1	4802.7	4826.2	4887.6	4840.5
17.5°	11601.0	10228.1	7208.7	5081.1	4543.2	4576.2	4665.9	4731.9	4769.6	4812.1	4750.8
20°	11648.2	10053.6	6411.4	4642.3	4425.3	4486.6	4609.3	4661.2	4708.3	4727.2	4656.4
22.5°	11605.7	9695.0	5708.5	4288.4	4312.1	4392.2	4500.8	4557.4	4529.0	4453.6	4411.1
25°	11492.5	9190.2	4977.2	4062.0	4151.6	4293.1	4378.1	4335.6	4283.7	4241.2	4227.1
27.5°	11487.7	8572.1	4448.9	3854.4	4014.8	4208.3	4179.9	4142.2	4165.8	4132.8	4095.0
30°	11511.4	7973.0	4014.8	3736.5	3915.8	4010.1	4043.1	4005.3	4033.7	3972.4	3991.2
32.5°	11388.7	7388.0	3731.8	3599.6	3797.8	3793.1	3901.6	3929.9	3863.9	3736.5	3755.3
35°	11440.5	6916.2	3491.2	3538.3	3665.7	3665.7	3750.6	3717.6	3543.0	3467.5	3486.4
37.5°	11799.1	6453.9	3373.2	3453.4	3538.3	3576.1	3547.8	3406.2	3363.7	3363.7	3373.2
40°	12138.8	6057.6	3302.4	3434.6	3420.3	3444.0	3236.4	3250.5	3250.5	3255.3	3231.7
42.5°	12440.7	5788.7	3245.8	3321.3	3344.9	3222.2	3094.9	3080.7	3113.7	3109.0	3090.2
45°	12549.2	5567.0	3165.6	3193.9	3212.8	3009.9	2948.6	2920.3	2958.0	2972.2	2991.1
47.5°	12134.1	5383.0	3076.0	3019.4	2981.6	2849.6	2769.3	2717.4	2764.6	2844.9	2863.7
50°	11601.0	5142.4	2934.4	2825.9	2745.8	2689.1	2632.5	2580.6	2613.7	2670.3	2656.1
52.5°	10813.2	4764.9	2755.2	2641.9	2505.2	2519.3	2467.4	2439.1	2458.0	2458.0	2443.8
55°	9690.3	3915.8	2453.2	2373.0	2259.9	2297.5	2306.9	2269.3	2231.5	2264.6	2236.2
57.5°	6614.3	2764.6	2189.0	2189.0	2075.8	2127.7	2123.0	2033.4	1943.7	1953.1	1934.3
60°	3826.1	2203.2	2019.2	2000.3	1882.4	1924.9	1934.3	1873.0	1736.2	1745.6	1726.7
62.5°	2174.9	1882.4	1764.4	1736.2	1712.5	1750.3	1750.3	1670.1	1552.1	1561.6	1542.7
65°	1849.4	1745.6	1575.7	1571.0	1561.6	1571.0	1533.3	1448.4	1344.6	1302.1	1306.8
67.5°	1679.6	1613.5	1448.4	1405.9	1377.6	1372.8	1302.1	1221.9	1174.7	1136.9	1132.2
70°	1471.9	1420.0	1297.4	1240.8	1212.5	1146.5	1075.6	1023.7	957.7	938.8	957.7
72.5°	1165.3	1160.6	1113.4	1052.1	990.7	938.8	877.5	806.8	745.4	731.2	698.2
75°	806.8	816.2	825.6	816.2	764.3	698.2	627.5	570.9	495.3	452.9	443.5
77.5°	528.4	542.5	556.7	537.8	504.8	443.5	396.3	325.6	269.0	235.9	231.2
80°	386.9	405.7	415.2	401.0	363.2	316.1	264.2	207.6	165.1	136.8	136.8
82.5°	297.2	316.1	325.6	301.9	264.2	226.5	188.7	146.2	113.2	89.7	84.9
85°	103.8	99.1	117.9	122.7	146.2	136.8	113.2	84.9	66.0	47.2	42.5
87.5°	28.3	28.3	33.1	33.1	28.3	23.5	23.5	23.5	18.8	14.1	14.1
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)