

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: P648431

Luminaire Tested: **GALN-SA5B-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22115.1 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

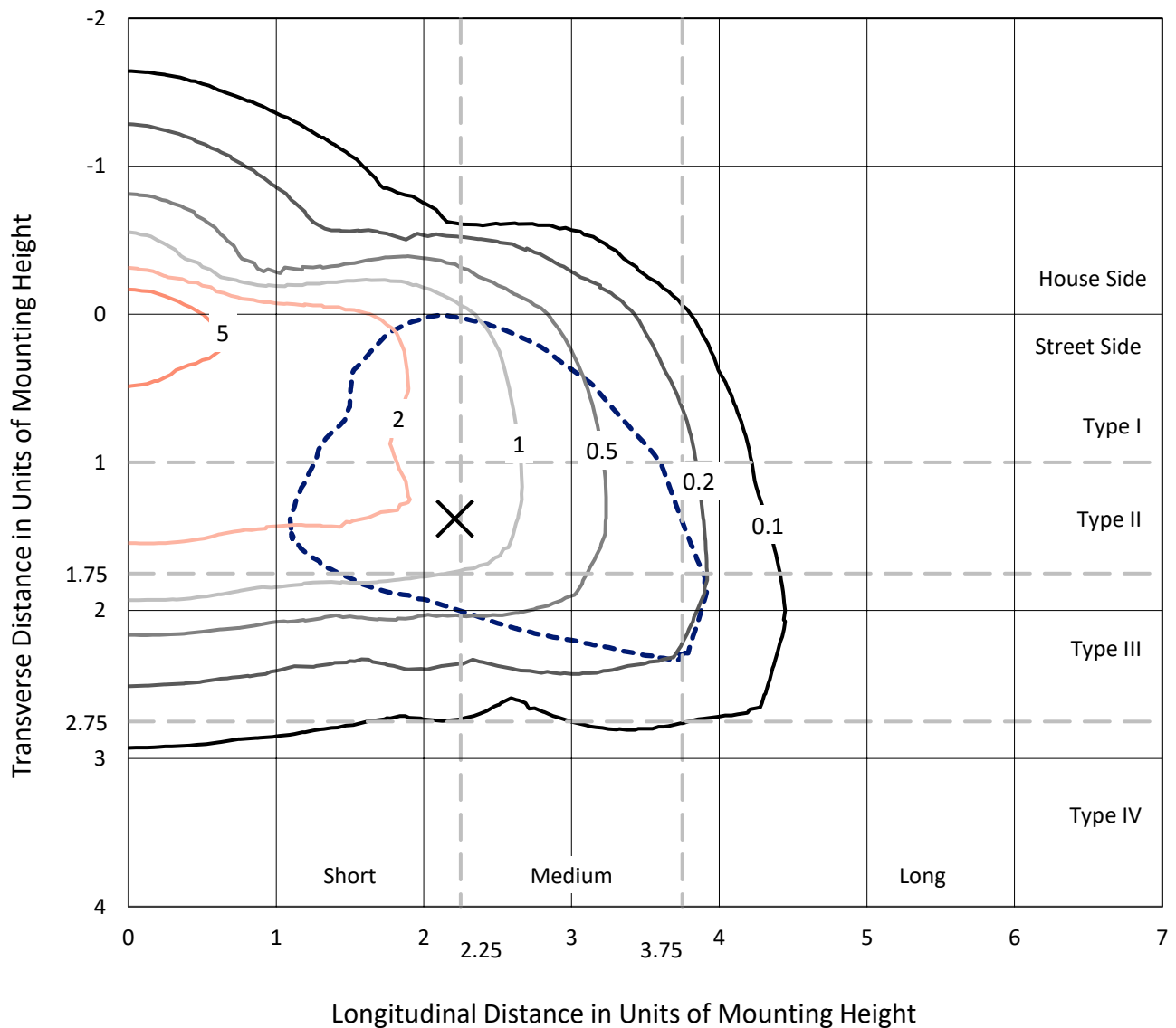
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

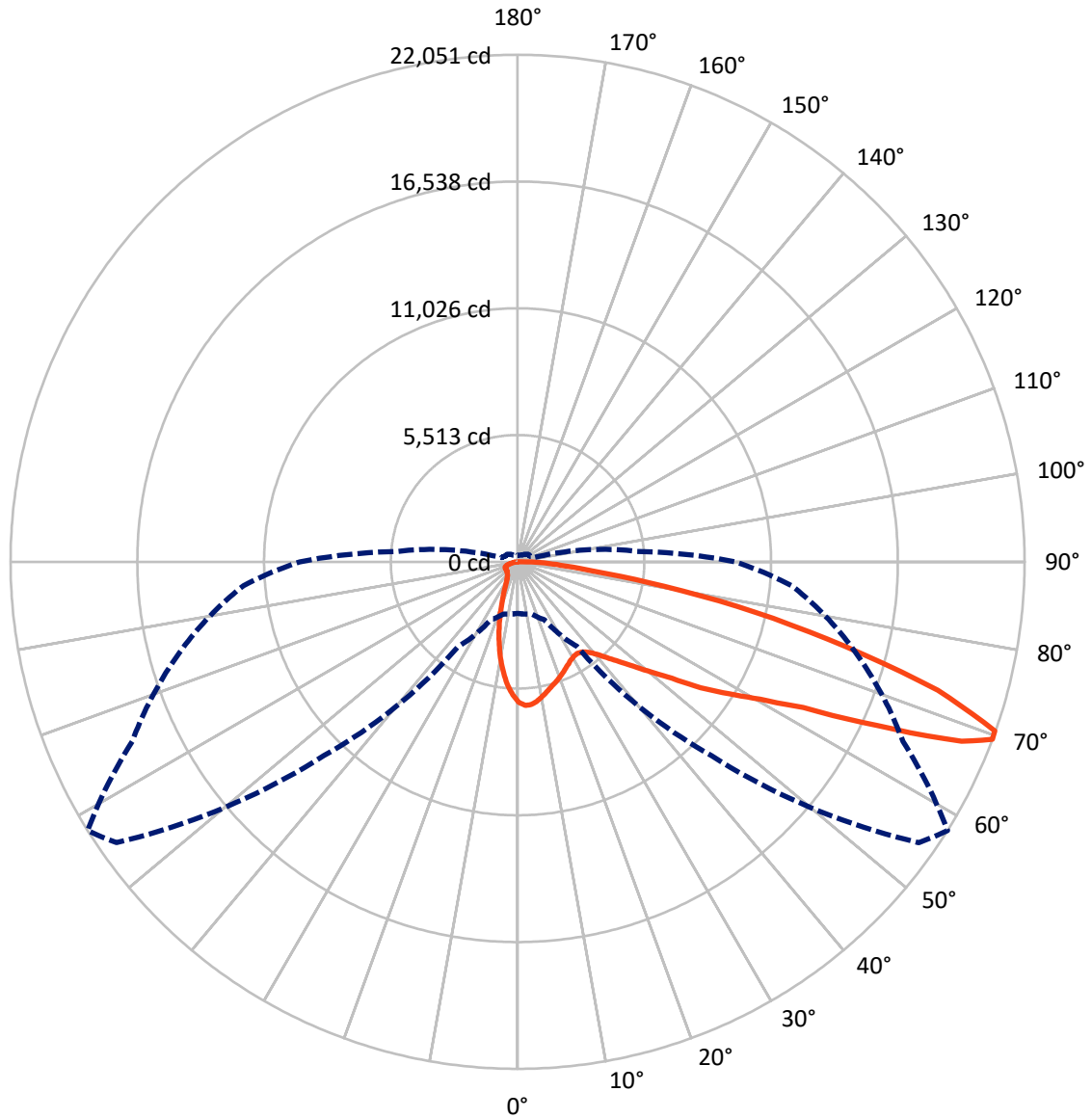
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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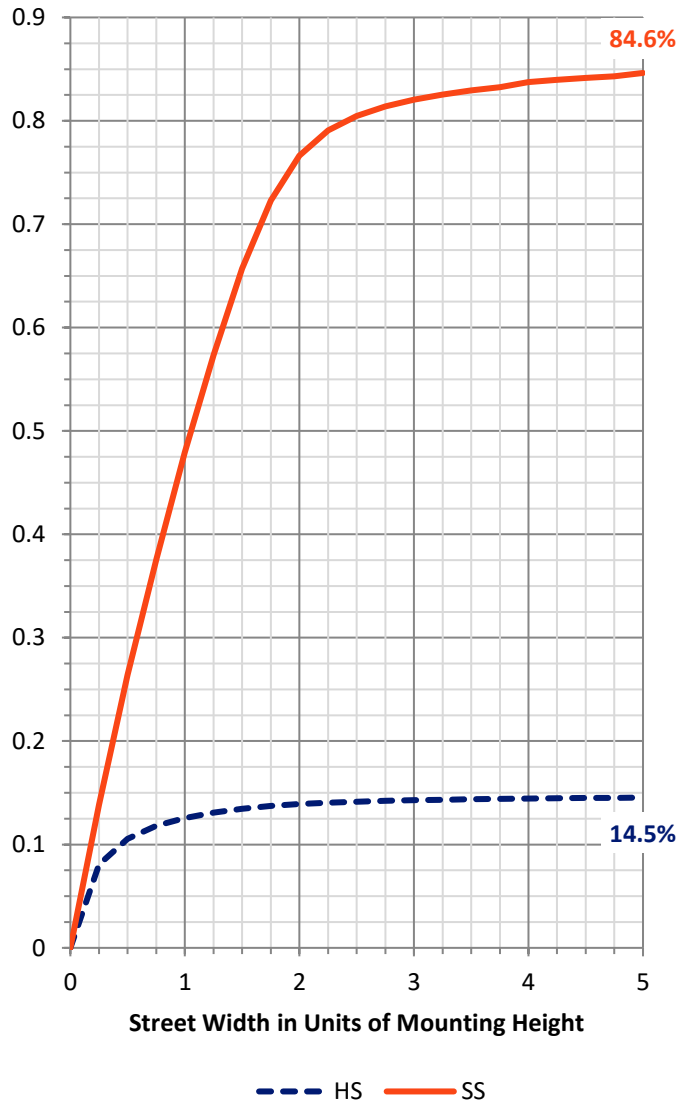
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3241.0	0.0	3241.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18874.1	0.0	18874.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	22115.1	0.0	22115.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.0	2.3
10°-20°	1139.6	5.2
20°-30°	1472.4	6.7
30°-40°	1912.4	8.6
40°-50°	2780.3	12.6
50°-60°	4436.5	20.1
60°-70°	5926.6	26.8
70°-80°	3416.4	15.4
80°-90°	511.7	2.3
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°	22115.1	100.0
0°-180°	22115.1	100.0

Coefficient of Utilization



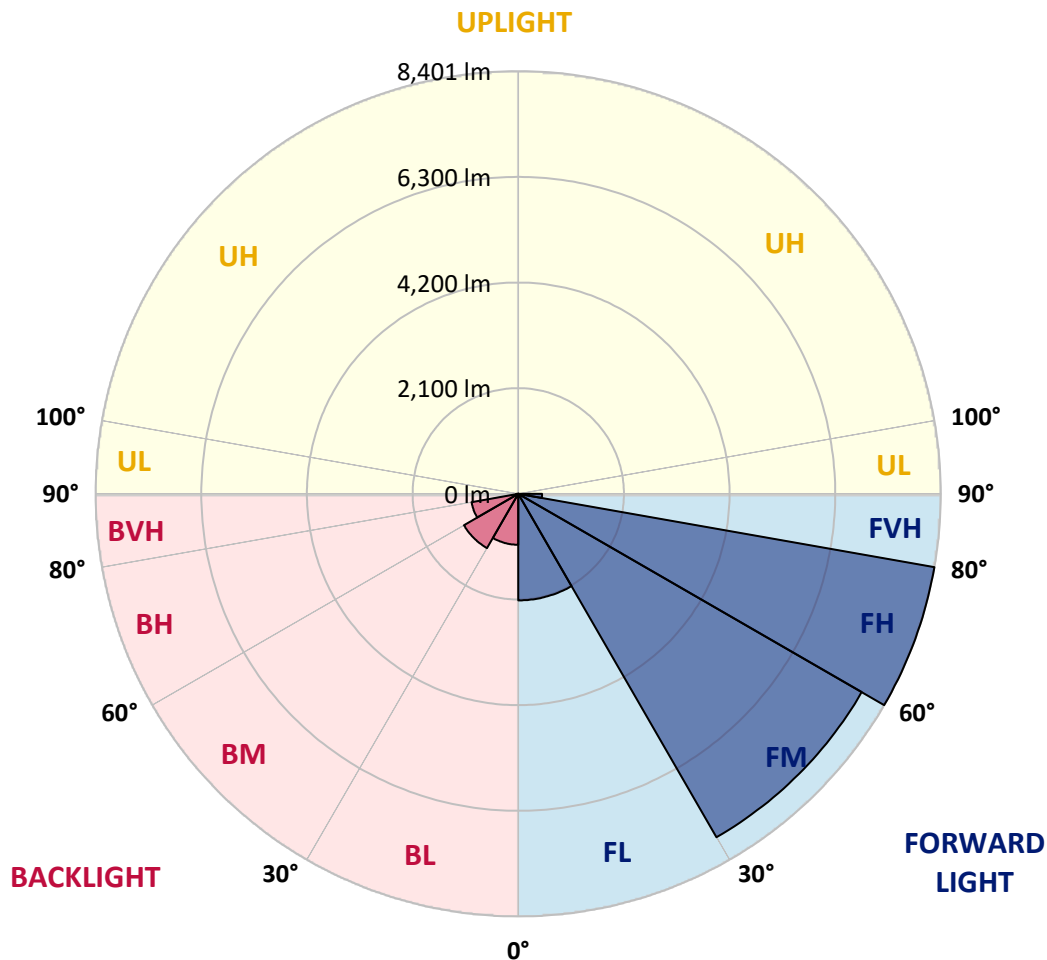
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2118.1	9.6			
FM (30°-60°)	7882.9	35.6			
FH (60°-80°)	8400.7	38.0			G4/12000
FVH (80°-90°)	472.5	2.1			G3/500
BL (0°-30°)	1013.0	4.6	B3/2500		
BM (30°-60°)	1246.4	5.6	B2/2500		
BH (60°-80°)	942.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	39.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3
2.5°	6338.2	6355.5	6350.6	6344.4	6334.5	6307.4	6263.0	6255.6	6227.3	6166.8	6091.6
5°	6240.8	6255.6	6256.9	6265.5	6277.8	6272.8	6240.8	6237.1	6195.2	6113.7	5988.0
7.5°	5906.6	5926.3	5969.4	6017.6	6060.7	6101.4	6111.3	6117.5	6091.6	5997.9	5830.1
10°	5530.4	5550.1	5569.9	5641.4	5747.5	5848.6	5932.5	5943.6	5949.7	5863.4	5658.7
12.5°	5113.5	5154.3	5196.1	5302.2	5444.0	5603.1	5751.1	5774.6	5816.5	5751.1	5510.7
15°	4759.5	4801.5	4861.9	4956.9	5128.3	5357.8	5566.2	5604.4	5687.0	5653.7	5372.6
17.5°	4514.1	4528.9	4570.8	4679.4	4864.4	5106.1	5384.8	5461.3	5593.3	5584.7	5254.1
20°	4320.4	4339.0	4364.8	4431.5	4623.8	4879.2	5215.9	5314.5	5493.4	5523.0	5136.9
22.5°	4239.1	4252.6	4248.9	4284.7	4415.4	4672.0	5044.5	5161.6	5404.6	5481.1	5028.4
25°	4244.0	4256.3	4237.8	4229.2	4306.9	4489.4	4865.6	5014.9	5333.1	5452.7	4929.8
27.5°	4326.6	4335.2	4300.7	4266.2	4272.4	4376.0	4717.6	4882.9	5272.6	5465.0	4847.1
30°	4437.7	4453.7	4431.5	4389.5	4343.9	4348.9	4622.7	4785.5	5244.2	5508.2	4807.6
32.5°	4580.7	4595.5	4585.6	4552.4	4493.2	4427.8	4599.2	4749.7	5246.7	5595.8	4799.0
35°	4731.2	4760.8	4776.8	4774.3	4726.3	4612.8	4691.7	4816.3	5305.9	5742.5	4849.6
37.5°	4901.3	4926.0	4995.1	5039.5	4995.1	4863.1	4900.2	4986.5	5436.7	5954.6	4960.6
40°	5066.6	5103.7	5204.8	5343.0	5325.7	5209.7	5218.4	5275.1	5667.3	6270.4	5177.7
42.5°	5239.3	5283.7	5460.1	5664.8	5705.6	5615.5	5638.9	5689.5	5995.4	6708.3	5550.1
45°	5461.3	5514.4	5731.4	5986.7	6147.1	6091.6	6158.1	6182.8	6434.5	7278.1	6041.0
47.5°	5747.5	5809.2	6076.8	6395.0	6621.9	6672.5	6788.5	6773.7	6978.3	7952.7	6677.4
50°	6229.7	6264.2	6517.1	6841.5	7153.5	7381.7	7507.5	7530.9	7653.0	8608.9	7389.1
52.5°	6803.3	6834.0	7016.6	7300.3	7691.3	8174.8	8485.5	8409.0	8438.6	9408.1	8221.6
55°	7448.3	7500.0	7616.0	7804.7	8311.6	9023.3	9647.3	9665.8	9337.7	10172.7	9019.5
57.5°	7947.8	8035.4	8233.9	8502.8	9145.4	9966.8	10805.5	10817.8	10398.5	10989.2	9900.2
60°	7696.2	7799.8	8253.7	8908.6	10239.4	11613.3	12189.3	12119.0	11430.8	11919.2	10974.4
62.5°	6610.8	6629.3	7289.2	8312.9	10576.1	13816.1	14249.0	13951.8	12808.5	13098.3	12066.0
65°	4278.5	4399.4	4922.3	6356.7	9469.8	15038.4	17857.8	17170.9	14739.9	14436.5	12979.9
67.5°	2701.0	2670.3	2887.3	3629.8	6513.4	13961.7	20937.6	20829.0	17265.9	15281.3	12761.6
69°	2239.8	2274.3	2348.3	2782.5	4482.0	11920.5	21301.4	22051.2	18490.5	15214.7	11968.5
70°	2031.3	2047.4	2125.1	2466.7	3458.4	9984.0	20704.4	22018.0	18971.5	14936.0	11393.8
72.5°	1612.0	1610.8	1744.0	2052.3	2585.2	5699.4	17000.7	19115.8	18433.9	13638.5	9414.2
75°	1224.7	1244.5	1391.2	1736.5	2381.7	3114.2	11863.7	14721.4	14722.7	10772.2	5874.5
77.5°	883.1	895.4	1066.8	1457.9	2243.5	2524.7	7902.1	10558.8	9926.1	4935.9	1846.3
80°	578.5	585.8	716.6	1154.5	2022.7	2381.7	4685.6	6462.8	4681.9	1309.8	610.5
82.5°	317.0	354.0	437.9	747.5	1623.1	2200.3	2847.8	3270.9	1756.3	583.4	318.2
85°	159.1	169.0	246.6	436.6	1060.7	1820.5	1983.3	1875.9	906.6	289.9	165.3
87.5°	46.9	59.2	102.3	169.0	430.4	948.4	1103.9	990.4	349.1	104.8	34.5
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°	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3	6111.3
2.5°	6060.7	6038.6	5939.8	5851.0	5769.7	5683.3	5610.6	5546.5	5552.6	5553.8	5488.4
5°	5922.6	5872.0	5684.6	5509.4	5361.4	5174.0	5013.6	4910.0	4858.2	4789.1	4813.8
7.5°	5735.2	5637.7	5377.5	5086.4	4813.8	4570.8	4306.9	4125.6	4009.7	3897.5	3912.3
10°	5541.5	5384.8	5006.2	4621.4	4268.7	3880.2	3543.5	3254.9	3040.2	2960.1	2907.0
12.5°	5343.0	5136.9	4656.0	4144.1	3656.9	3192.0	2714.7	2405.1	2168.3	2042.5	2058.5
15°	5161.6	4911.2	4290.8	3666.8	3034.0	2480.3	2004.2	1709.4	1544.2	1509.6	1529.4
17.5°	4993.9	4665.8	3949.2	3203.0	2464.3	1859.9	1505.9	1339.4	1272.8	1254.4	1253.1
20°	4821.2	4457.4	3565.6	2707.2	1920.3	1441.8	1235.8	1158.1	1145.8	1153.2	1154.5
22.5°	4646.1	4199.6	3171.0	2215.1	1529.4	1179.1	1080.5	1059.5	1069.3	1086.6	1089.1
25°	4484.5	3972.6	2791.1	1783.4	1221.0	1036.0	987.9	987.9	1010.1	1036.0	1037.2
27.5°	4351.3	3753.2	2412.4	1415.9	1022.4	932.4	916.4	925.0	955.9	975.6	976.8
30°	4241.5	3548.4	2054.7	1134.7	899.1	849.8	846.1	860.9	883.1	901.6	902.8
32.5°	4158.9	3368.3	1720.6	953.4	814.0	786.9	785.7	796.8	809.1	814.0	818.9
35°	4126.8	3219.1	1414.6	838.7	757.3	740.0	740.0	738.8	743.7	746.2	748.6
37.5°	4152.7	3104.4	1177.9	764.7	715.3	703.0	695.6	688.2	685.8	685.8	687.0
40°	4262.5	3043.9	1001.5	716.6	685.8	667.3	653.6	645.0	636.4	638.8	641.4
42.5°	4495.6	3055.0	881.8	684.5	659.8	633.9	614.2	604.3	598.2	605.6	604.3
45°	4866.8	3166.1	805.4	662.3	633.9	600.6	582.2	572.3	572.3	583.4	587.1
47.5°	5386.1	3378.2	764.7	645.0	614.2	574.7	556.2	548.9	551.3	569.8	571.0
50°	6020.0	3747.0	757.3	636.4	604.3	556.2	535.3	527.9	534.1	553.8	556.2
52.5°	6719.3	4221.8	793.0	637.7	595.7	545.1	518.0	506.9	513.1	529.1	534.1
55°	7548.2	4816.3	885.6	642.6	583.4	539.0	505.7	481.0	488.4	499.5	500.7
57.5°	8394.2	5566.2	1048.4	643.8	573.5	527.9	484.7	452.7	452.7	460.0	463.8
60°	9427.8	6382.6	1263.0	645.0	574.7	511.8	456.3	420.5	415.6	419.4	420.5
62.5°	10454.0	7065.9	1298.8	641.4	587.1	495.8	425.5	388.5	379.9	378.7	376.2
65°	10906.6	6938.9	1064.4	624.1	600.6	485.9	400.8	357.7	342.9	337.9	337.9
67.5°	10169.1	5869.6	800.5	600.6	592.0	476.1	377.4	331.8	314.5	304.7	304.7
69°	9475.9	5220.8	719.0	584.6	569.8	460.0	362.6	318.2	297.2	286.1	282.4
70°	8940.6	4774.3	684.5	571.0	548.9	441.5	351.5	308.3	284.9	272.6	270.1
72.5°	7135.0	3745.7	599.4	519.2	467.5	371.2	312.0	277.5	255.3	241.7	238.0
75°	4112.0	2030.1	497.0	451.4	376.2	288.6	263.9	241.7	224.5	212.1	208.4
77.5°	1265.4	784.4	360.2	356.4	276.2	223.2	210.9	202.2	190.0	176.3	173.9
80°	532.8	399.6	244.2	240.5	183.8	155.4	151.7	150.5	145.6	134.4	130.8
82.5°	292.3	225.7	170.2	148.0	111.0	90.0	93.7	95.0	91.3	80.2	72.7
85°	143.1	123.3	82.6	66.6	50.6	32.1	30.9	37.0	34.5	24.7	27.2
87.5°	28.3	34.5	22.2	9.9	4.9	0.0	0.0	0.0	0.0	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)