

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: P652599

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35544 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

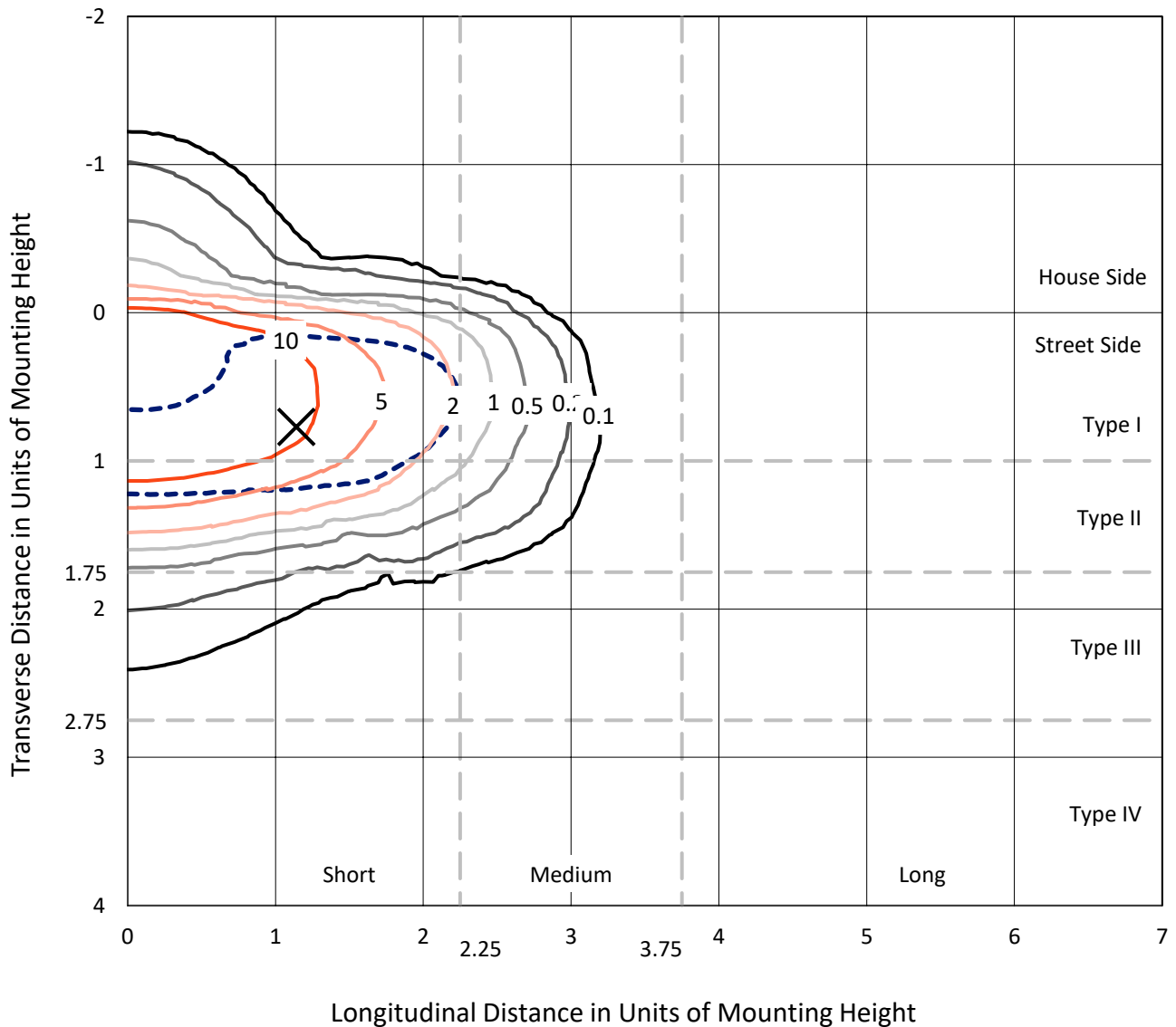
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

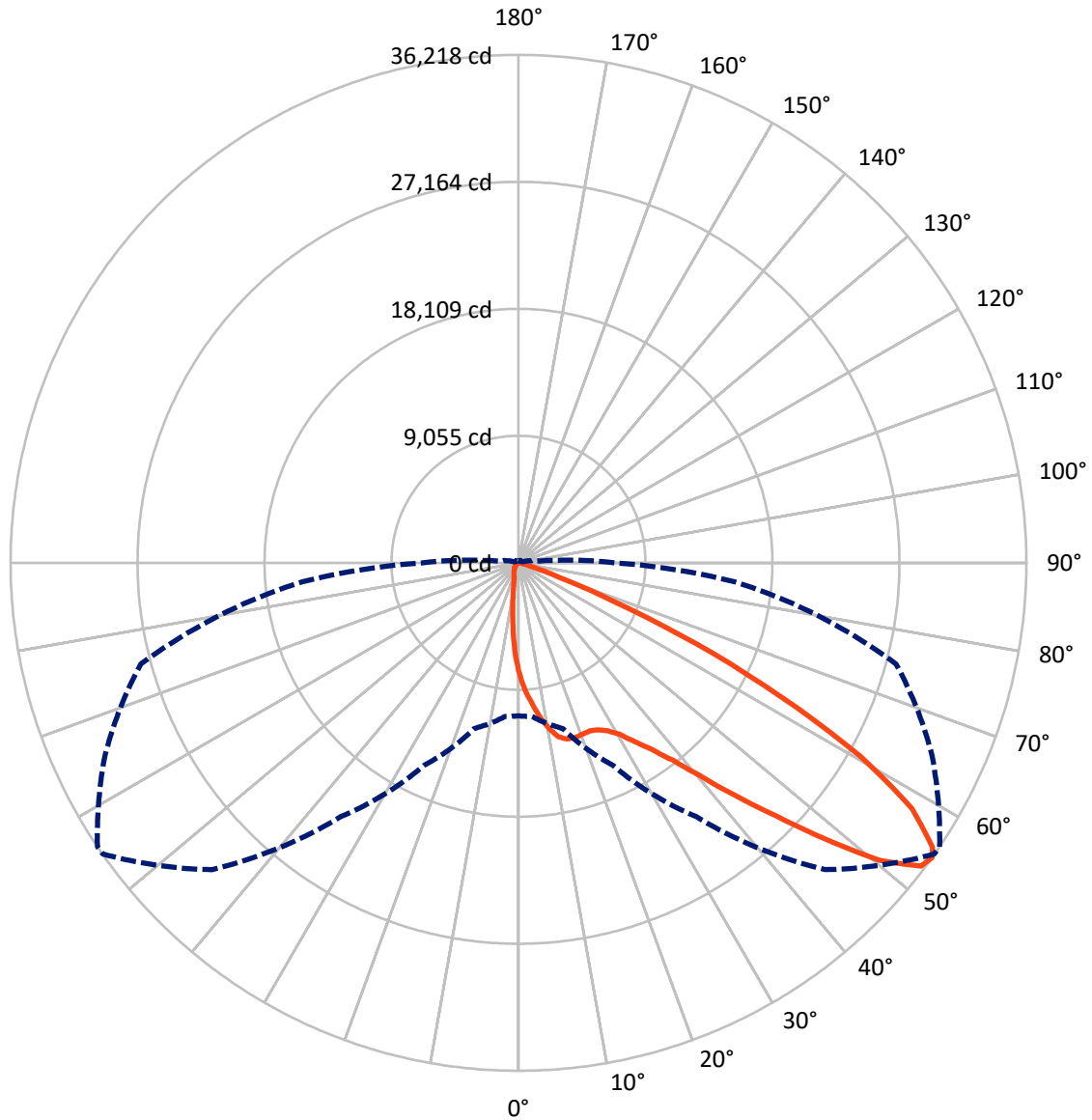
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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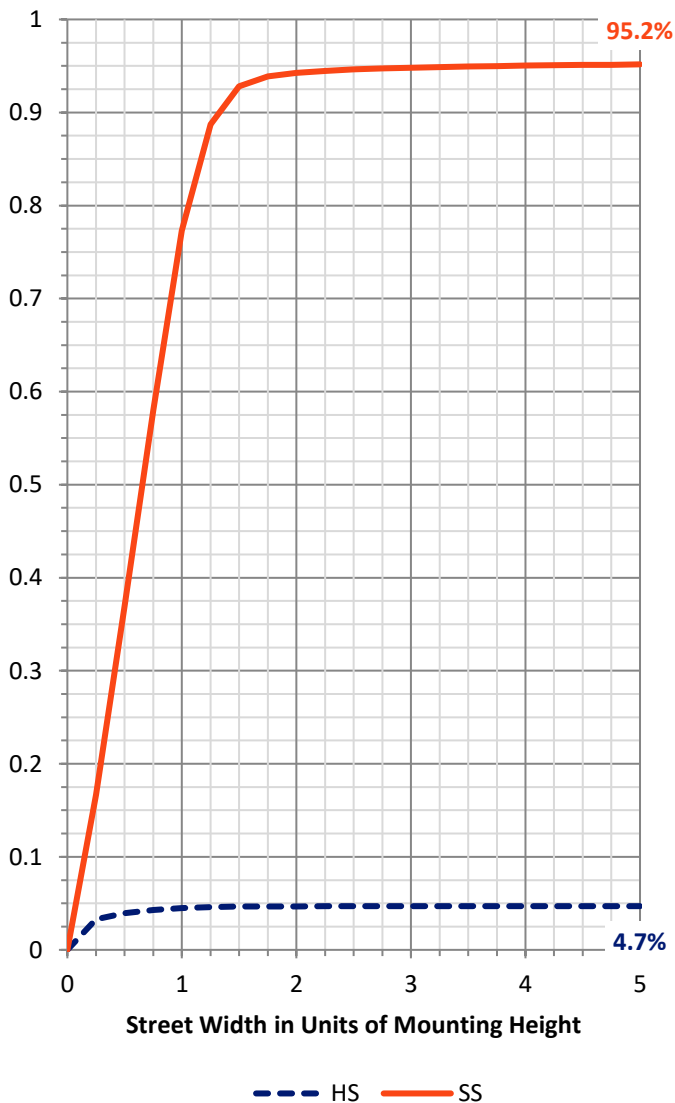
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.8	0.0	1680.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	33863.2	0.0	33863.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	35544.0	0.0	35544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.8	2.0
10°-20°	1886.4	5.3
20°-30°	3267.1	9.2
30°-40°	5639.6	15.9
40°-50°	9598.8	27.0
50°-60°	9499.2	26.7
60°-70°	4335.6	12.2
70°-80°	556.8	1.6
80°-90°	62.8	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°	35544.0	100.0
0°-180°	35544.0	100.0

Coefficient of Utilization



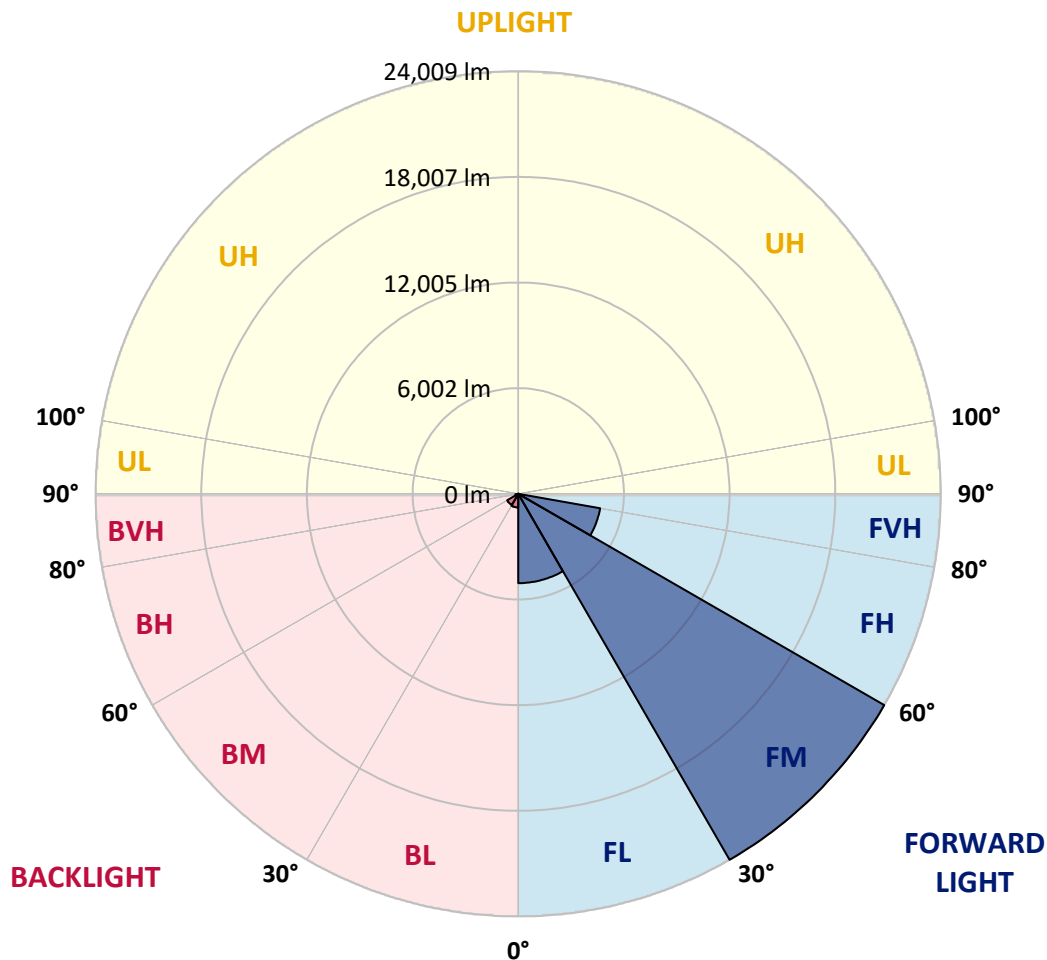
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5074.0	14.3			
FM (30°-60°)	24009.1	67.5			
FH (60°-80°)	4724.1	13.3			G2/5000
FVH (80°-90°)	56.0	0.2			G1/100
BL (0°-30°)	777.3	2.2	B2/1000		
BM (30°-60°)	728.4	2.0	B1/1000		
BH (60°-80°)	168.3	0.5	B1/500		G1/500
BVH (80°-90°)	6.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8
2.5°	10035.9	9966.4	9870.5	9796.1	9621.0	9369.2	9103.1	9103.1	8846.5	8489.2	8124.6
5°	11575.5	11529.9	11436.4	11244.6	11048.0	10695.4	10160.6	10067.1	9609.1	8961.6	8280.6
7.5°	12201.4	12223.0	12227.8	12177.4	12083.9	11736.2	11206.2	11141.5	10410.1	9541.9	8484.4
10°	11601.8	11707.4	11810.5	12019.2	12314.1	12398.0	12098.3	12031.2	11311.7	10129.5	8705.0
12.5°	10709.8	10767.3	10824.9	11153.4	11745.7	12424.4	12738.5	12736.2	12127.1	10714.6	8985.6
15°	10294.9	10345.3	10350.1	10496.4	11009.5	11997.5	13012.0	13047.9	12923.2	11436.4	9287.8
17.5°	10381.3	10422.0	10388.5	10424.4	10693.0	11527.6	12980.8	13100.7	13568.3	12129.5	9561.2
20°	10944.8	11023.9	10894.5	10793.7	10875.3	11402.9	12875.3	13043.2	14023.9	12805.7	9810.5
22.5°	11956.8	12000.0	11836.9	11561.1	11417.2	11664.2	12846.5	13012.0	14412.5	13359.7	9954.4
25°	13081.5	13067.1	12887.2	12577.9	12275.7	12191.8	13035.9	13184.6	14733.7	13858.5	9997.6
27.5°	14206.2	14249.4	13947.2	13563.5	13201.4	12983.2	13460.4	13570.7	15095.9	14426.9	10050.4
30°	15513.2	15443.6	15146.2	14707.4	14292.5	13987.9	14143.9	14175.1	15594.7	15179.8	10189.4
32.5°	17213.4	17021.5	16688.2	15920.8	15623.4	15107.9	15146.2	15184.6	16201.4	15925.6	10357.3
35°	19520.4	19510.7	18858.5	17824.9	17100.6	16460.4	16292.5	16323.7	17119.8	17033.5	10729.0
37.5°	22297.3	22335.7	21592.3	20551.5	19218.2	18201.4	17856.0	17860.8	18515.5	18563.5	11295.0
40°	24558.7	24659.4	24215.8	23513.1	22196.6	20606.7	20026.3	19973.6	20477.2	20417.2	12103.1
42.5°	25532.3	25625.9	25791.3	26035.9	25311.7	24000.0	22630.6	22702.5	22856.0	22436.4	13009.6
45°	25055.1	25203.8	25853.7	27364.5	28045.5	27604.2	25971.2	25719.4	25069.5	24630.6	13920.8
47.5°	23067.1	23429.2	24515.5	27031.1	29414.8	30906.4	29741.0	29407.6	27285.3	26232.6	14501.2
50°	19798.5	19820.1	21333.3	24549.1	28704.9	32990.3	33589.8	33340.4	29350.1	27131.8	14793.7
52.5°	14352.5	14824.9	16210.9	19935.2	25630.7	32673.8	36043.1	35940.0	31479.6	27592.3	15215.8
54°	10911.2	11002.4	12235.0	15930.4	22098.3	30935.2	36194.1	36218.1	32537.1	27870.4	15465.1
55°	8944.8	8726.6	10021.5	13570.7	19688.2	29398.0	35700.1	35815.2	33011.9	28014.3	15649.8
57.5°	4239.8	4242.2	5232.6	7158.3	12330.9	22827.3	32680.9	33088.6	33064.7	28261.3	16218.2
60°	2146.3	2160.7	2378.9	3304.5	6091.1	15175.0	27021.5	27992.8	30520.3	28297.3	16405.2
62.5°	1501.2	1484.4	1448.5	1589.9	2563.5	7712.2	20117.5	20961.6	25930.4	26928.0	15810.5
65°	1285.4	1249.4	1148.6	1127.1	1295.0	3071.9	12530.0	13906.4	19798.5	23316.5	14117.4
67.5°	1098.3	1084.0	992.8	937.6	916.1	1338.1	6465.2	7189.5	13532.4	16760.1	10693.0
70°	932.8	925.7	870.5	801.0	741.0	801.0	2398.1	2971.3	7541.9	9023.9	5045.6
72.5°	757.8	765.0	774.6	685.8	623.5	568.3	1024.0	1191.9	3155.9	3225.4	1765.0
75°	664.3	657.1	657.1	597.1	520.4	422.1	563.6	606.7	966.4	896.8	410.1
77.5°	467.6	450.9	527.6	491.6	434.0	299.7	321.3	340.5	400.5	343.0	191.8
80°	323.7	323.7	338.2	441.3	390.9	218.2	196.6	211.0	237.4	203.9	110.3
82.5°	182.2	187.0	220.6	235.0	227.8	146.2	129.5	131.9	158.3	139.1	69.6
85°	21.6	36.0	127.1	124.7	93.5	64.8	71.9	74.3	98.3	86.4	40.8
87.5°	2.4	4.8	26.4	33.6	24.0	26.4	26.4	26.4	33.6	38.3	28.8
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°	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8
2.5°	7928.0	7745.8	7311.7	6808.1	6486.8	5964.0	5522.8	5203.9	5124.7	4971.2	5016.7
5°	7918.4	7539.6	6654.7	5719.4	4721.8	3978.4	3424.5	2988.0	2796.2	2669.1	2580.4
7.5°	7923.2	7330.9	5911.2	4422.1	3230.2	2501.2	1988.0	1721.8	1544.3	1470.0	1479.6
10°	7937.6	7095.9	5047.9	3275.8	2179.9	1616.3	1302.1	1175.0	1115.1	1105.5	1103.1
12.5°	7971.2	6839.3	4223.0	2431.7	1525.2	1175.0	1055.1	1012.0	992.8	992.8	985.6
15°	8007.2	6556.4	3537.2	1808.2	1175.0	1009.6	954.5	932.8	920.9	920.9	918.5
17.5°	8007.2	6230.2	2896.9	1402.9	1012.0	928.0	884.9	856.1	846.6	846.6	844.1
20°	7956.8	5851.3	2328.6	1129.5	918.5	851.3	808.1	777.0	765.0	760.2	757.8
22.5°	7781.8	5345.3	1853.7	971.2	841.8	784.1	729.0	693.1	683.5	678.7	681.0
25°	7470.0	4774.5	1467.6	853.7	772.2	702.7	654.6	628.3	618.7	618.7	621.1
27.5°	7148.7	4177.4	1163.1	765.0	688.3	625.9	587.5	570.7	568.3	575.5	577.9
30°	6851.3	3578.0	942.4	693.1	613.9	561.1	534.8	530.0	530.0	532.4	534.8
32.5°	6520.4	3052.7	788.9	630.7	554.0	508.4	494.0	494.0	498.8	498.8	503.6
35°	6311.7	2601.9	693.1	570.7	508.4	470.0	460.4	462.8	470.0	479.6	484.4
37.5°	6199.0	2242.2	630.7	522.8	465.2	438.8	429.2	434.0	450.9	467.6	470.0
40°	6208.6	1971.2	580.4	482.0	431.7	402.8	395.7	410.1	426.9	443.6	446.1
42.5°	6314.1	1769.8	532.4	434.0	402.8	362.1	359.7	374.1	381.3	398.0	400.5
45°	6438.9	1623.5	482.0	383.7	350.1	314.1	316.6	328.5	338.2	364.5	369.3
47.5°	6477.2	1522.8	424.5	326.1	287.8	275.8	278.2	285.4	304.5	328.5	330.9
50°	6520.4	1460.4	369.3	275.8	244.6	242.2	244.6	249.4	261.4	271.0	268.6
52.5°	6705.0	1458.0	323.7	239.8	208.7	213.4	215.8	213.4	203.9	189.5	184.7
54°	6877.7	1465.2	302.2	223.0	191.8	199.1	196.6	184.7	160.6	146.2	139.1
55°	7016.8	1472.4	290.1	211.0	182.2	184.7	187.0	163.1	131.9	117.5	112.7
57.5°	7290.1	1455.6	261.4	184.7	160.6	151.0	148.7	107.9	71.9	62.3	57.5
60°	7153.5	1314.1	237.4	158.3	136.7	122.3	100.8	60.0	36.0	26.4	26.4
62.5°	6616.3	1115.1	211.0	129.5	112.7	93.5	52.7	33.6	16.8	9.6	7.2
65°	5918.5	937.6	189.5	103.1	88.7	60.0	28.8	21.6	7.2	0.0	0.0
67.5°	4400.4	695.4	160.6	81.5	67.1	38.3	19.2	12.0	2.4	0.0	0.0
70°	2038.3	424.5	136.7	62.3	47.9	28.8	14.4	7.2	0.0	0.0	0.0
72.5°	585.2	266.2	112.7	45.6	33.6	24.0	12.0	4.8	2.4	0.0	0.0
75°	203.9	213.4	83.9	33.6	26.4	16.8	9.6	4.8	2.4	0.0	0.0
77.5°	122.3	172.7	52.7	28.8	21.6	14.4	9.6	4.8	2.4	2.4	0.0
80°	69.6	115.1	33.6	24.0	19.2	12.0	7.2	4.8	2.4	2.4	0.0
82.5°	38.3	55.2	26.4	21.6	16.8	12.0	7.2	4.8	2.4	2.4	2.4
85°	31.2	28.8	21.6	19.2	14.4	9.6	7.2	2.4	0.0	0.0	0.0
87.5°	24.0	19.2	19.2	19.2	14.4	9.6	7.2	2.4	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)