

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: P647052

Luminaire Tested: **GALN-SA7C-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38272.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

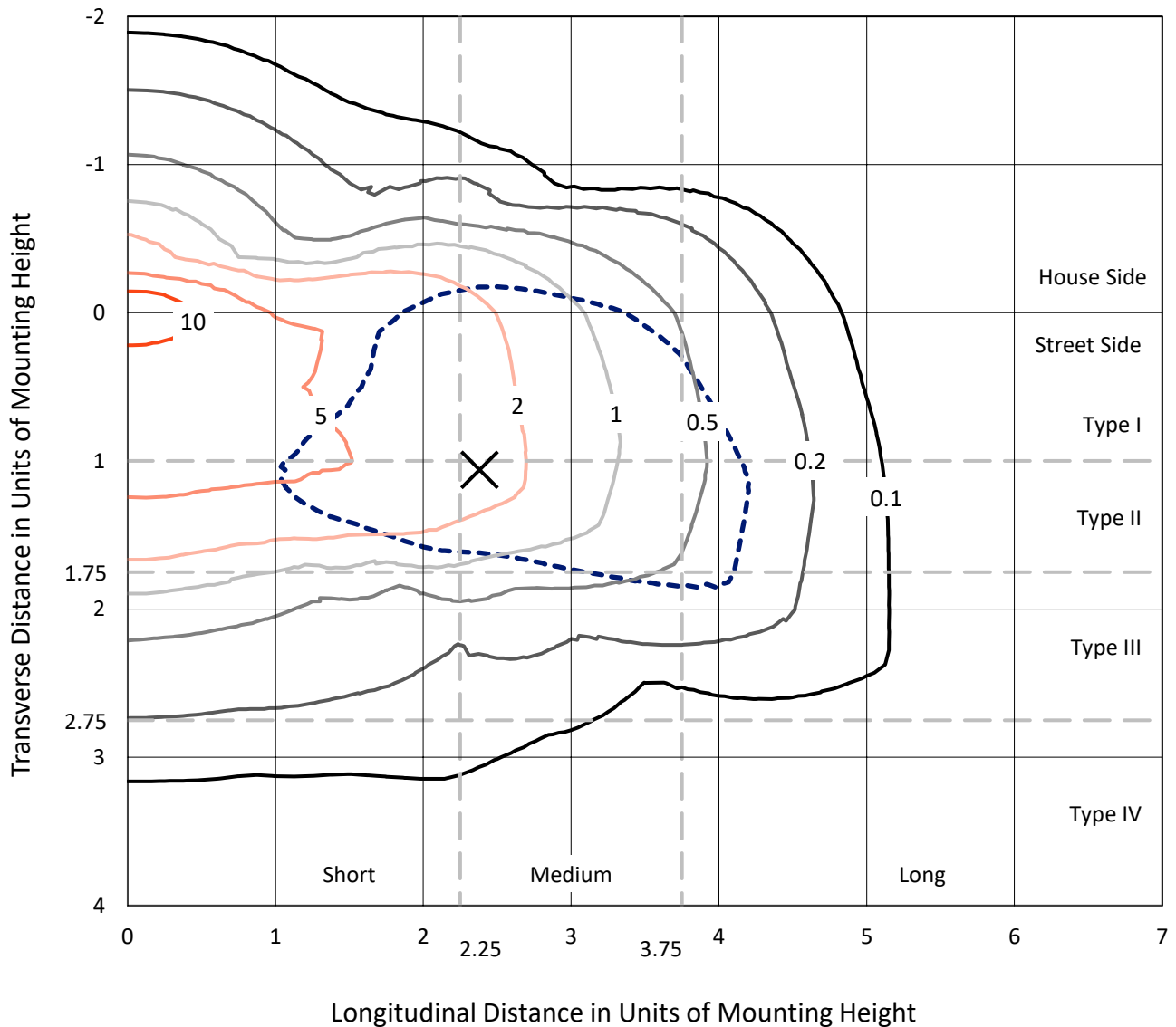
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

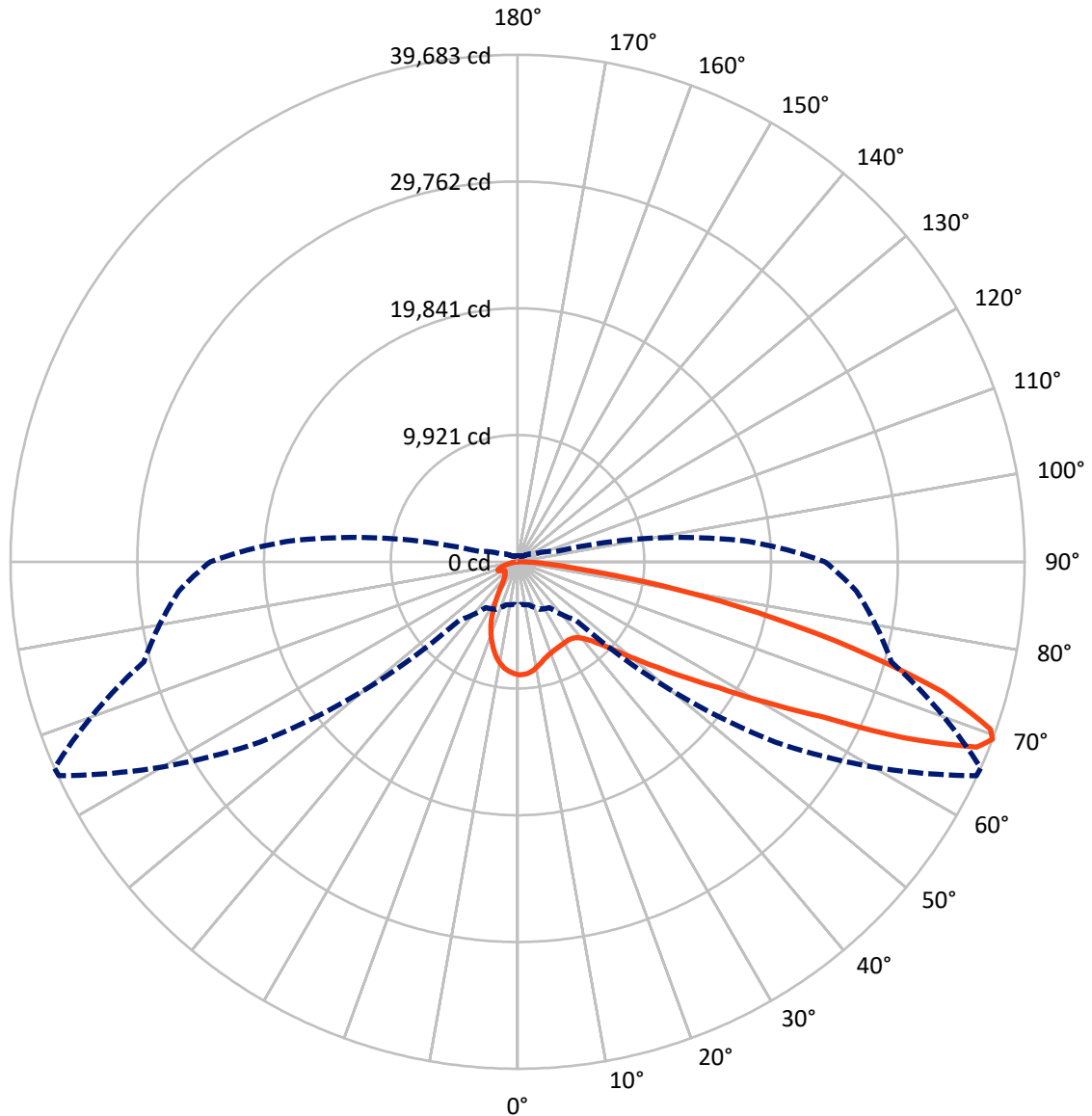
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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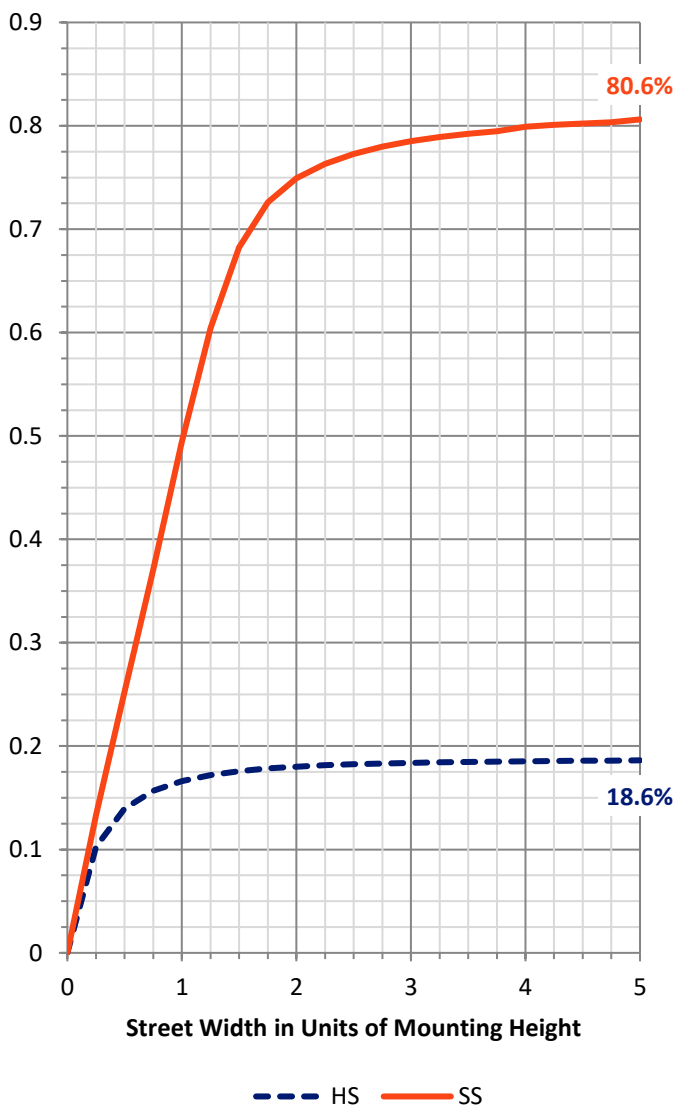
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7197.6	0.0	7197.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31074.7	0.0	31074.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	38272.3	0.0	38272.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.5	2.0
10°-20°	1820.4	4.8
20°-30°	2478.3	6.5
30°-40°	3330.3	8.7
40°-50°	4972.7	13.0
50°-60°	7909.8	20.7
60°-70°	9728.7	25.4
70°-80°	6329.9	16.5
80°-90°	934.7	2.4
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°	38272.3	100.0
0°-180°	38272.3	100.0

Coefficient of Utilization

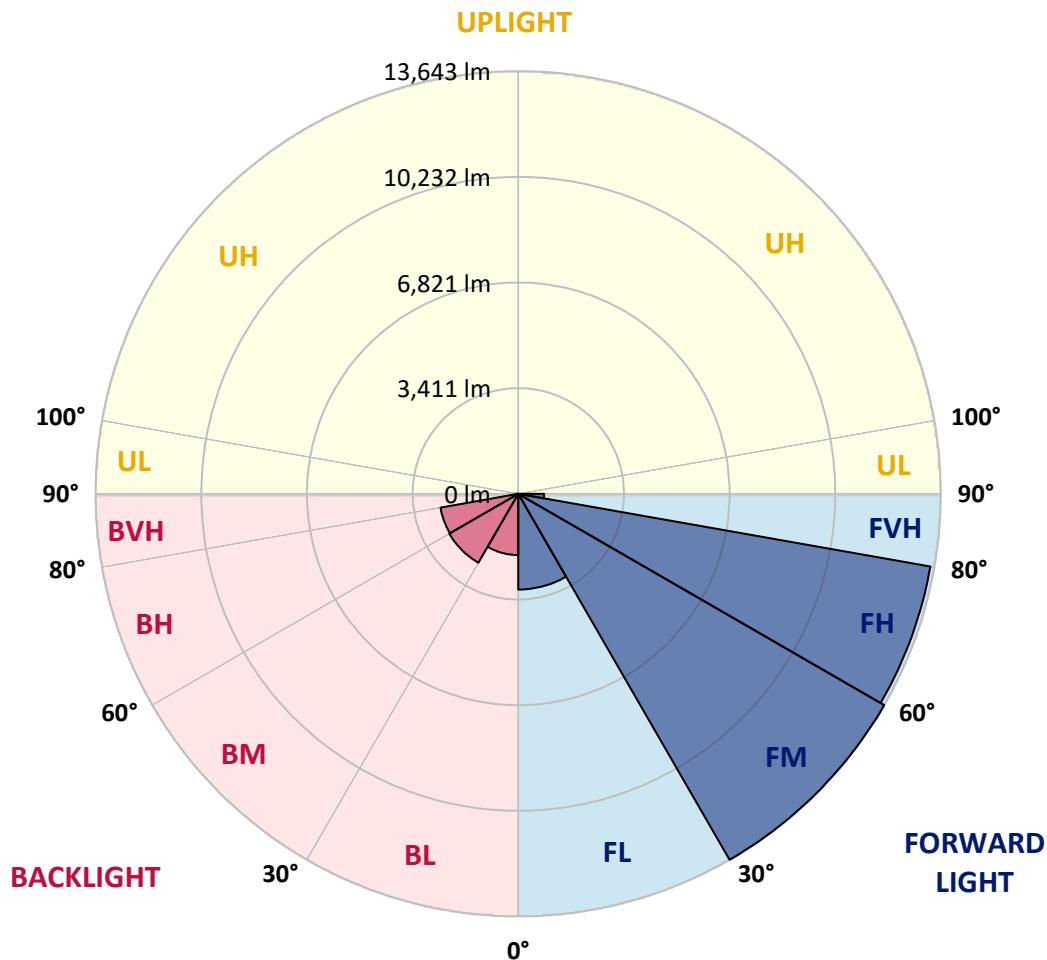


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3090.4	8.1			
FM (30°-60°)	13642.9	35.6			
FH (60°-80°)	13510.3	35.3			G5
FVH (80°-90°)	831.0	2.2			G5
BL (0°-30°)	1975.8	5.2	B3/2500		
BM (30°-60°)	2569.8	6.7	B3/5000		
BH (60°-80°)	2548.3	6.7	B4/5000		G4/5000
BVH (80°-90°)	103.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1
2.5°	8528.7	8562.6	8600.8	8643.1	8723.6	8768.2	8800.0	8836.0	8840.2	8859.3	8844.5
5°	7899.2	7939.5	7996.7	8077.3	8198.1	8386.7	8581.7	8740.6	8759.7	8848.8	8874.1
7.5°	7373.6	7396.9	7443.5	7572.8	7744.5	7954.3	8238.3	8560.5	8607.1	8819.1	8893.2
10°	6945.4	6968.8	7023.9	7157.4	7326.9	7589.8	7901.3	8325.2	8363.4	8727.9	8897.5
12.5°	6625.4	6646.6	6705.9	6837.4	7032.4	7278.2	7621.6	8070.9	8126.0	8607.1	8857.2
15°	6381.7	6421.9	6470.7	6578.8	6784.4	7021.8	7354.5	7837.8	7882.2	8480.0	8829.7
17.5°	6277.9	6296.9	6330.8	6430.4	6580.9	6814.1	7148.9	7655.5	7708.5	8390.9	8823.3
20°	6282.1	6301.1	6307.5	6362.6	6470.7	6672.0	7002.7	7511.3	7574.9	8312.5	8833.9
22.5°	6426.2	6428.3	6405.0	6385.9	6428.3	6595.8	6898.9	7403.3	7477.4	8278.6	8842.3
25°	6648.8	6686.9	6653.0	6564.0	6485.5	6566.1	6858.5	7343.9	7413.8	8229.9	8831.8
27.5°	7009.0	7015.4	6987.8	6867.1	6663.6	6604.2	6841.6	7299.4	7358.7	8193.8	8778.8
30°	7492.3	7473.2	7447.7	7314.2	6994.2	6750.5	6877.6	7259.1	7320.6	8140.9	8715.2
32.5°	7981.9	8041.2	8017.9	7861.1	7445.6	7034.5	6994.2	7254.9	7305.8	8100.5	8645.3
35°	8501.1	8528.7	8638.9	8558.3	8132.3	7494.4	7212.5	7320.6	7360.9	8102.6	8596.5
37.5°	8908.0	8982.3	9240.8	9310.7	8910.2	8102.6	7566.4	7507.1	7524.1	8206.5	8615.6
40°	9399.8	9526.9	9859.7	10145.8	9883.0	8893.2	8168.4	7852.6	7873.8	8456.6	8740.6
42.5°	10022.9	10111.9	10559.1	10947.0	10904.6	9938.1	8897.5	8418.5	8429.1	8954.7	9090.3
45°	10752.0	10879.2	11381.5	11964.3	12063.9	11120.8	9950.8	9274.7	9268.4	9728.3	9743.1
47.5°	11684.6	11763.0	12261.1	12896.9	13299.6	12606.5	11228.8	10504.0	10436.2	10855.8	10735.0
50°	12543.0	12665.9	13043.1	13738.3	14740.8	14346.6	12909.6	12097.8	11938.9	12331.0	12127.5
52.5°	12903.2	13032.6	13350.5	14213.1	15976.5	16597.5	15043.9	13999.0	13734.1	14035.0	13960.8
55°	12278.0	12445.5	12742.2	13791.3	16519.0	19193.8	17922.1	16196.9	16004.0	15874.7	15895.9
57.5°	10597.3	10756.2	11156.8	12314.0	15870.5	21078.0	22031.7	19022.1	18608.8	18013.2	18115.0
60°	8066.6	8166.3	8374.0	9656.3	13948.1	21567.6	26698.8	22593.4	22330.6	20143.3	20215.3
62.5°	5728.9	5841.2	5985.3	6625.4	10211.6	20187.8	30352.7	27580.5	26641.6	22349.6	22279.7
65°	4652.2	4575.9	4749.7	5048.5	5991.7	15645.8	31175.1	34502.6	33209.8	25255.4	24284.7
67.5°	3825.6	3745.1	3916.7	4448.8	4556.8	9081.9	28212.0	38995.8	38737.3	28415.5	26321.5
69°	3386.9	3344.5	3495.0	4101.1	4374.5	6449.5	24577.2	39621.1	39682.5	30278.5	26635.2
70°	3052.0	3069.0	3215.2	3925.3	4291.9	5317.7	21005.9	38758.5	39279.8	31209.0	26296.1
72.5°	2246.6	2282.7	2486.1	3251.3	4213.5	4512.4	12500.5	33854.0	34776.0	31264.1	24055.8
75°	1570.5	1553.6	1733.7	2448.0	3980.3	4472.0	7341.8	26181.6	27226.6	27023.1	20213.2
77.5°	1027.9	1055.5	1199.6	1729.5	3348.7	4438.1	4785.7	18574.9	19253.1	18072.6	11955.9
80°	724.8	722.7	803.3	1180.5	2484.0	4264.4	3918.8	11707.9	11536.2	7102.3	3545.8
82.5°	415.4	445.1	538.3	830.8	1661.7	3753.5	3605.2	5599.6	5112.1	2024.1	1197.5
85°	231.0	241.6	320.0	502.3	970.7	2827.3	3147.4	2547.6	2403.5	845.6	515.1
87.5°	74.2	80.6	133.5	254.3	440.8	1335.2	1782.5	1176.3	1085.2	305.2	207.7
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°	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1	8838.1
2.5°	8850.9	8876.2	8808.4	8742.7	8683.4	8600.8	8526.6	8465.1	8422.7	8416.4	8395.2
5°	8880.6	8882.7	8753.3	8579.6	8410.0	8223.5	8030.6	7892.9	7763.6	7691.5	7655.5
7.5°	8901.7	8882.7	8649.5	8367.6	8041.2	7702.1	7363.0	7091.7	6881.9	6799.2	6831.0
10°	8893.2	8833.9	8492.7	8041.2	7566.4	7059.9	6572.4	6190.9	5841.2	5661.1	5665.3
12.5°	8846.6	8749.1	8259.6	7674.6	6977.2	6299.0	5553.0	5038.0	4633.2	4393.6	4319.4
15°	8806.3	8636.8	7986.1	7176.5	6309.6	5341.0	4431.8	3795.9	3456.9	3268.2	3266.0
17.5°	8764.0	8528.7	7687.3	6648.8	5542.4	4296.2	3342.4	2857.0	2698.1	2717.2	2685.4
20°	8719.4	8401.5	7375.7	6061.7	4607.7	3204.6	2503.1	2305.9	2350.5	2437.4	2450.1
22.5°	8668.6	8265.9	7040.8	5415.2	3624.3	2412.0	2030.5	2000.8	2115.2	2250.9	2269.9
25°	8590.1	8096.3	6619.1	4739.1	2795.5	1943.6	1778.2	1799.4	1911.8	2026.2	2038.9
27.5°	8480.0	7886.5	6193.1	3895.6	2100.4	1668.0	1625.6	1653.1	1708.3	1778.2	1795.2
30°	8331.6	7649.1	5703.5	3166.5	1682.8	1530.2	1513.3	1528.1	1559.9	1589.6	1598.1
32.5°	8183.2	7420.2	5209.6	2424.6	1500.5	1439.1	1422.2	1422.2	1422.2	1426.4	1428.5
35°	8045.5	7204.0	4679.8	1888.4	1405.2	1367.0	1343.7	1318.3	1314.0	1299.2	1299.2
37.5°	7969.1	7006.9	4116.0	1581.1	1335.2	1307.7	1275.9	1233.5	1210.2	1212.3	1208.1
40°	7984.0	6877.6	3603.1	1407.3	1278.0	1248.3	1199.6	1150.9	1136.1	1136.1	1131.8
42.5°	8151.4	6835.3	3111.3	1316.1	1222.9	1189.0	1127.5	1083.0	1074.6	1072.5	1076.7
45°	8537.1	6939.1	2670.5	1256.9	1176.3	1125.4	1063.9	1023.7	1015.2	1015.2	1013.1
47.5°	9289.6	7276.1	2354.7	1218.7	1142.4	1076.7	1013.1	972.8	958.0	953.8	953.8
50°	10459.5	8007.3	2119.4	1184.8	1100.0	1032.2	966.5	919.9	896.5	894.4	892.3
52.5°	12085.1	9147.6	2028.3	1159.3	1053.4	985.6	913.4	869.0	839.3	833.0	828.7
55°	13986.3	10739.3	2153.3	1140.3	1004.6	932.6	858.4	811.7	784.2	771.5	769.4
57.5°	16188.4	12651.0	2628.1	1114.8	960.1	875.3	803.3	756.6	726.9	712.1	707.9
60°	18165.8	14615.8	3456.9	1100.0	922.0	813.9	739.7	697.3	669.8	654.9	652.8
62.5°	20338.3	16489.4	4446.6	1140.3	905.0	754.5	680.3	642.2	618.9	604.0	604.0
65°	22659.1	18365.1	5101.6	1275.9	930.4	707.9	616.8	585.0	563.8	553.2	551.1
67.5°	24223.3	19013.7	4202.9	1415.8	994.0	657.0	555.3	529.9	517.2	506.5	506.5
69°	24053.7	18193.4	3100.8	1451.8	1013.1	631.6	521.4	502.3	485.4	481.2	476.8
70°	23517.5	17258.7	2598.5	1428.5	998.2	608.3	500.2	476.8	462.0	457.8	455.7
72.5°	20946.6	14967.6	1935.0	1242.0	849.9	527.7	442.9	421.8	409.0	402.7	402.7
75°	17402.9	12233.5	1511.2	987.7	665.5	445.1	379.4	362.5	351.8	347.6	345.5
77.5°	9753.8	6831.0	1085.2	773.6	504.4	360.3	317.9	303.1	292.5	288.2	288.2
80°	2717.2	1952.0	638.0	510.8	343.3	273.4	252.2	241.6	226.8	216.2	222.5
82.5°	1023.7	845.6	364.6	307.3	218.3	182.3	175.9	167.4	161.1	146.3	146.3
85°	498.1	411.2	233.2	163.2	120.8	95.4	91.1	86.9	82.7	72.0	74.2
87.5°	171.7	182.3	101.7	59.4	36.0	23.3	19.1	10.6	10.6	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)