

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: P652112

Luminaire Tested: **GALN-SA9A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652112
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-SA9A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 34803.1 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

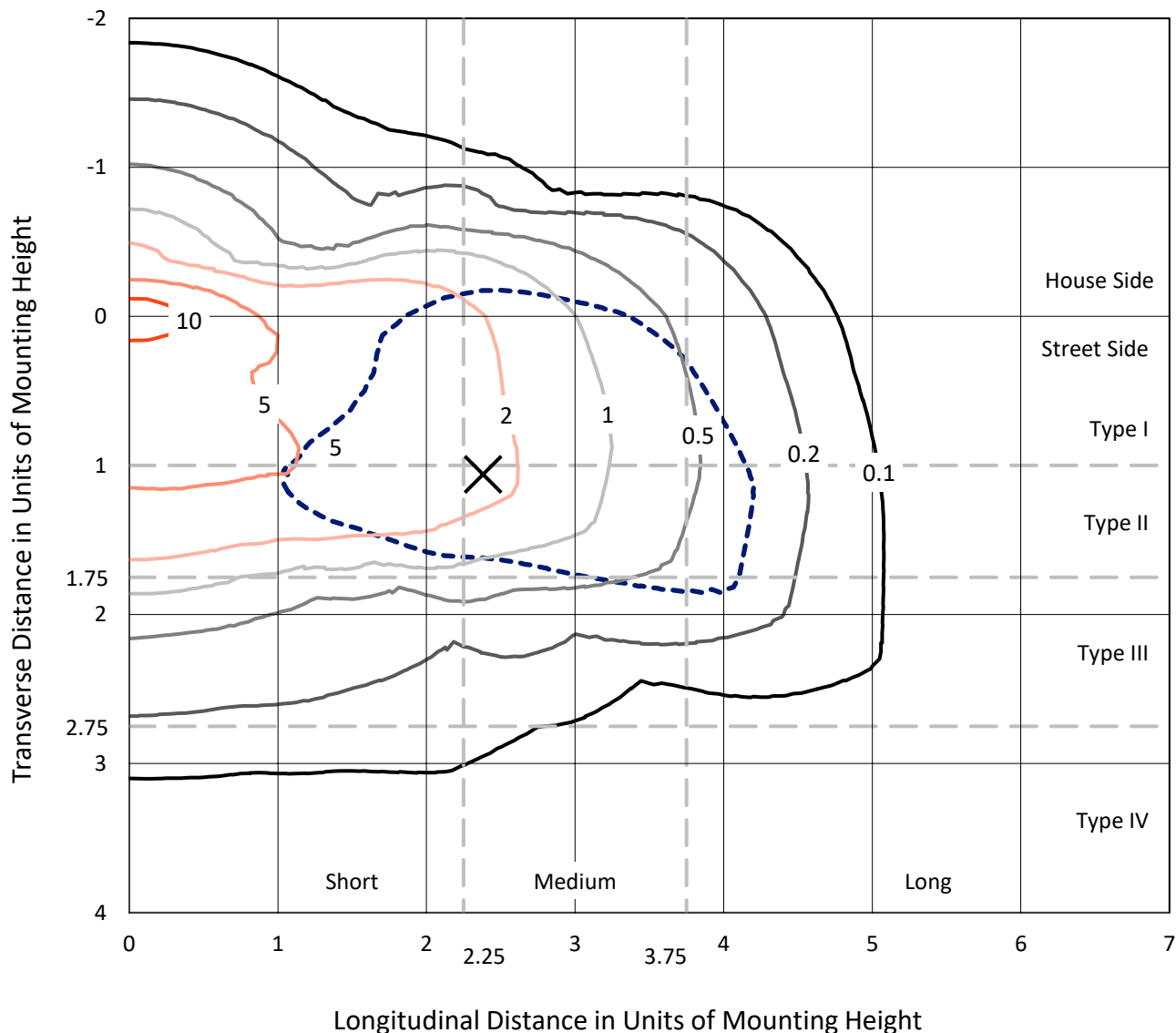
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

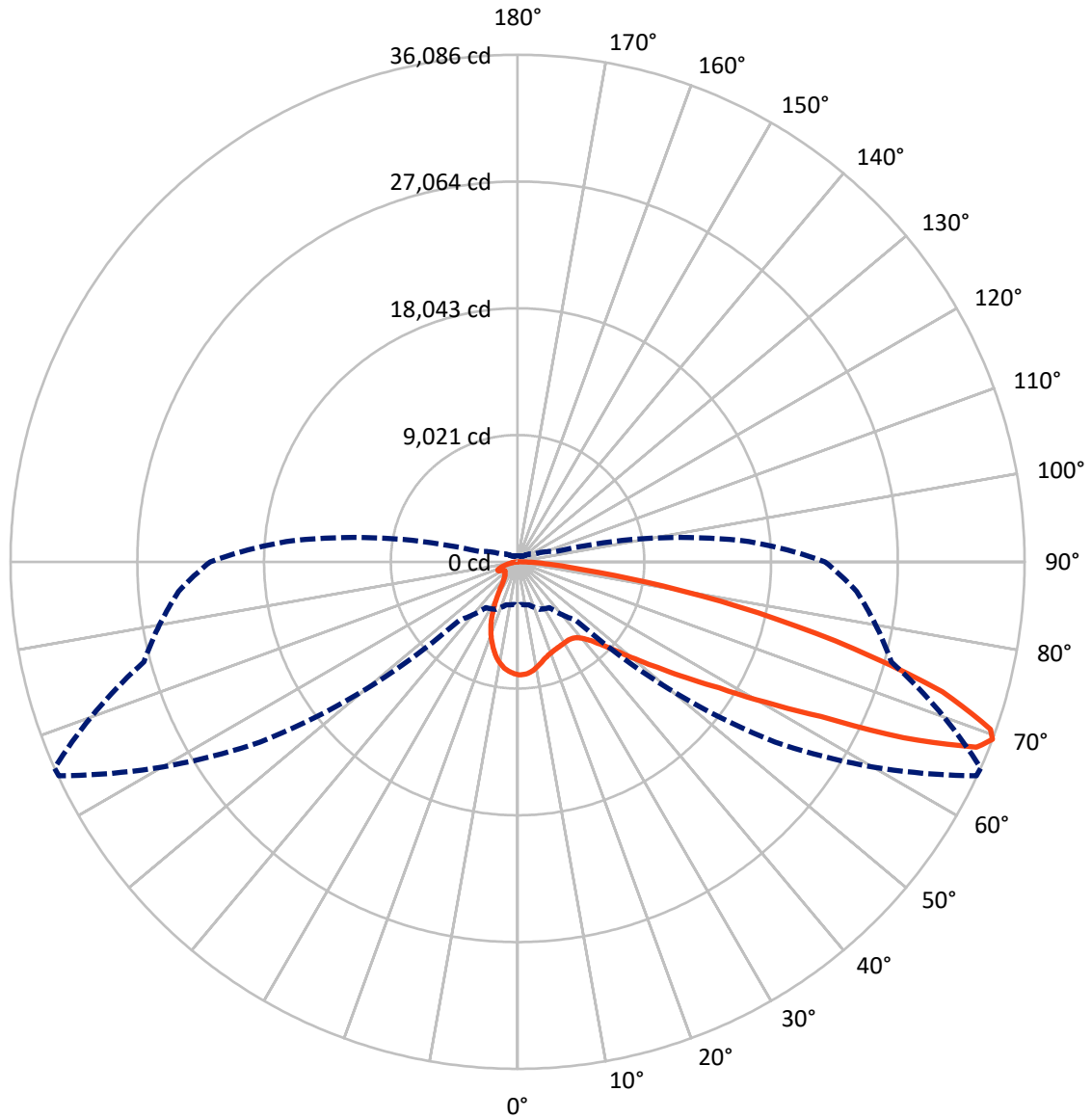
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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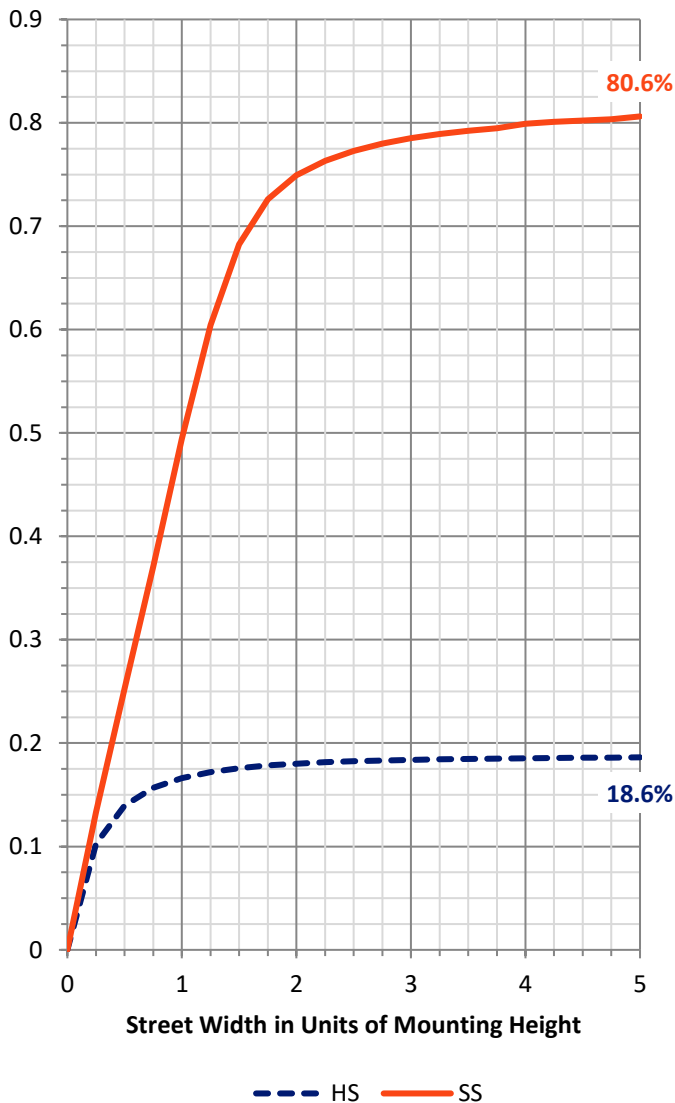
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6545.2	0.0	6545.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28258.0	0.0	28258.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	34803.1	0.0	34803.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.9	2.0
10°-20°	1655.4	4.8
20°-30°	2253.6	6.5
30°-40°	3028.4	8.7
40°-50°	4521.9	13.0
50°-60°	7192.8	20.7
60°-70°	8846.8	25.4
70°-80°	5756.1	16.5
80°-90°	850.0	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°	34803.1	100.0
0°-180°	34803.1	100.0

Coefficient of Utilization

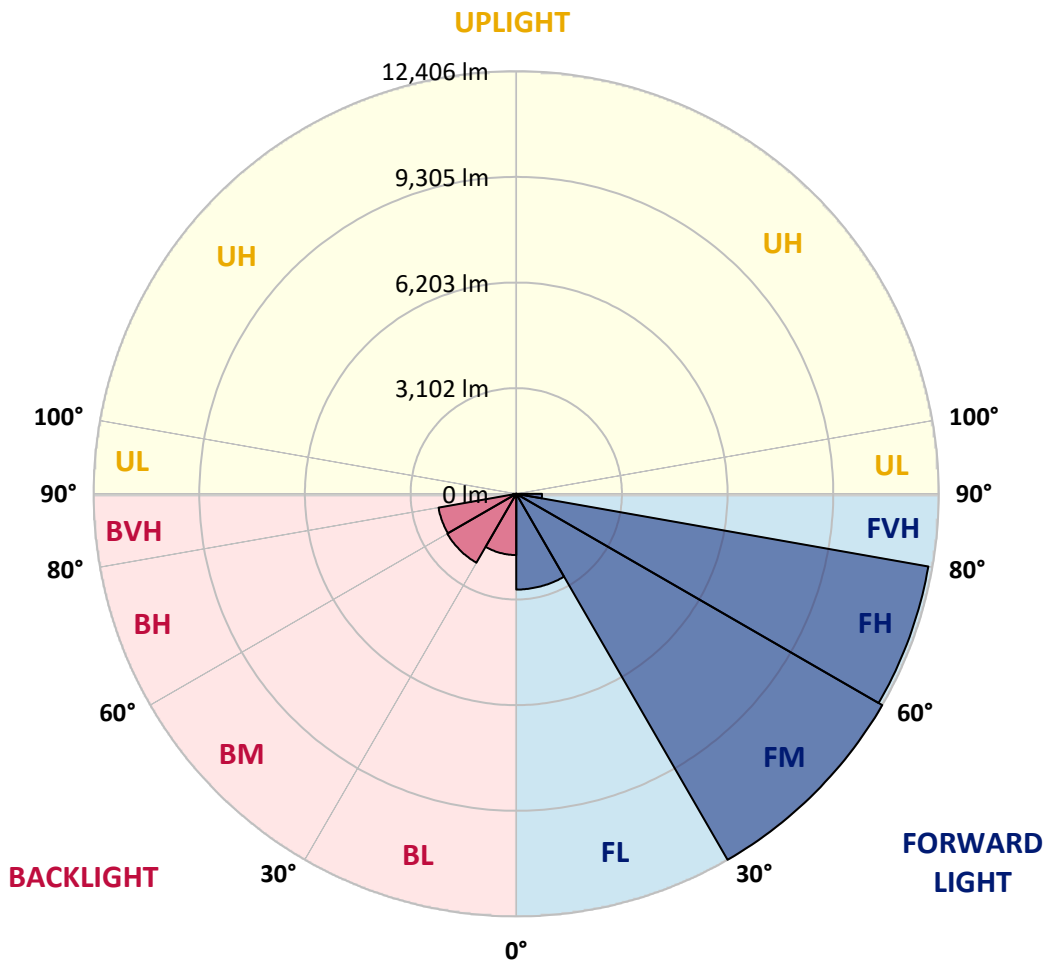


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2810.3	8.1			
FM (30°-60°)	12406.3	35.6			
FH (60°-80°)	12285.7	35.3			G5
FVH (80°-90°)	755.7	2.2			G5
BL (0°-30°)	1796.7	5.2	B3/2500		
BM (30°-60°)	2336.9	6.7	B2/2500		
BH (60°-80°)	2317.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	94.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0
2.5°	7755.6	7786.5	7821.1	7859.6	7932.9	7973.4	8002.3	8035.1	8039.0	8056.3	8042.8
5°	7183.2	7219.8	7271.9	7345.1	7455.0	7626.4	7803.8	7948.4	7965.7	8046.6	8069.7
7.5°	6705.2	6726.4	6768.8	6886.4	7042.5	7233.3	7491.5	7784.5	7826.9	8019.7	8087.1
10°	6315.9	6337.1	6387.2	6508.6	6662.8	6901.8	7185.1	7570.6	7605.2	7936.8	8091.0
12.5°	6024.8	6044.1	6098.1	6217.6	6394.9	6618.5	6930.7	7339.3	7389.4	7826.9	8054.3
15°	5803.2	5839.8	5884.1	5982.5	6169.4	6385.3	6687.9	7127.3	7167.8	7711.3	8029.3
17.5°	5708.8	5726.1	5757.0	5847.6	5984.4	6196.4	6500.9	6961.5	7009.7	7630.3	8023.5
20°	5712.7	5730.0	5735.8	5785.9	5884.1	6067.2	6368.0	6830.5	6888.3	7559.0	8033.1
22.5°	5843.7	5845.6	5824.4	5807.1	5845.6	5997.8	6273.5	6732.2	6799.7	7528.2	8040.9
25°	6046.0	6080.8	6049.9	5969.0	5897.7	5970.9	6236.9	6678.2	6741.8	7483.9	8031.2
27.5°	6373.7	6379.5	6354.4	6244.6	6059.6	6005.6	6221.5	6637.8	6691.8	7451.1	7983.0
30°	6813.1	6795.8	6772.7	6651.2	6360.2	6138.5	6254.2	6601.2	6657.0	7402.9	7925.2
32.5°	7258.3	7312.3	7291.1	7148.5	6770.7	6396.8	6360.2	6597.3	6643.6	7366.3	7861.6
35°	7730.6	7755.6	7855.9	7782.6	7395.2	6815.0	6558.7	6657.0	6693.7	7368.3	7817.3
37.5°	8100.6	8168.0	8403.2	8466.8	8102.5	7368.3	6880.6	6826.6	6842.0	7462.7	7834.7
40°	8547.8	8663.4	8966.0	9226.2	8987.2	8087.1	7428.0	7140.8	7160.1	7690.1	7948.4
42.5°	9114.4	9195.3	9602.0	9954.7	9916.1	9037.3	8091.0	7655.4	7665.0	8143.0	8266.4
45°	9777.4	9893.0	10349.9	10879.8	10970.4	10112.8	9048.8	8434.1	8428.2	8846.5	8860.0
47.5°	10625.4	10696.8	11149.6	11727.8	12094.1	11463.8	10211.0	9551.9	9490.2	9871.8	9762.0
50°	11406.0	11517.7	11860.9	12493.0	13404.6	13046.2	11739.4	11001.3	10856.7	11213.2	11028.2
52.5°	11733.6	11851.2	12140.3	12924.7	14528.3	15093.0	13680.2	12730.0	12489.2	12762.8	12695.4
55°	11165.1	11317.3	11587.1	12541.2	15021.7	17453.9	16297.6	14728.7	14553.3	14435.8	14455.0
57.5°	9636.7	9781.3	10145.5	11197.8	14431.9	19167.4	20034.7	17297.9	16922.0	16380.5	16473.0
60°	7335.5	7426.0	7614.9	8781.0	12683.8	19612.6	24278.7	20545.5	20306.4	18317.4	18383.0
62.5°	5209.6	5311.8	5442.8	6024.8	9285.9	18357.9	27601.5	25080.5	24226.7	20323.8	20260.2
65°	4230.5	4161.1	4319.2	4590.9	5448.6	14227.6	28349.3	31375.2	30199.5	22966.2	22083.5
67.5°	3478.9	3405.6	3561.7	4045.5	4143.8	8258.6	25654.8	35461.1	35226.0	25839.8	23935.6
69°	3079.9	3041.3	3178.2	3729.4	3978.0	5864.9	22349.4	36029.7	36085.5	27534.0	24220.9
70°	2775.4	2790.8	2923.7	3569.5	3902.8	4835.7	19101.9	35245.2	35719.4	28380.0	23912.5
72.5°	2043.0	2075.8	2260.8	2956.5	3831.5	4103.3	11367.5	30785.4	31623.8	28430.2	21875.3
75°	1428.2	1412.7	1576.5	2226.0	3619.6	4066.7	6676.3	23808.5	24758.6	24573.6	18381.1
77.5°	934.8	959.8	1090.9	1572.7	3045.2	4035.9	4351.9	16891.2	17507.9	16434.4	10872.1
80°	659.2	657.2	730.5	1073.5	2258.8	3877.8	3563.7	10646.6	10490.5	6458.5	3224.5
82.5°	377.8	404.8	489.5	755.6	1511.0	3413.3	3278.4	5092.0	4648.7	1840.6	1088.9
85°	210.1	219.8	291.1	456.7	882.7	2571.1	2862.1	2316.7	2185.6	769.0	468.4
87.5°	67.4	73.3	121.4	231.3	400.9	1214.2	1620.9	1069.7	986.8	277.5	188.9
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°	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0	8037.0
2.5°	8048.5	8071.7	8010.0	7950.3	7896.3	7821.1	7753.7	7697.8	7659.2	7653.4	7634.2
5°	8075.5	8077.5	7959.9	7801.9	7647.7	7478.1	7302.7	7177.4	7059.9	6994.3	6961.5
7.5°	8094.8	8077.5	7865.5	7609.1	7312.3	7003.9	6695.5	6448.9	6258.0	6182.9	6211.8
10°	8087.1	8033.1	7722.8	7312.3	6880.6	6419.9	5976.7	5629.7	5311.8	5147.9	5151.8
12.5°	8044.8	7956.0	7510.8	6978.9	6344.8	5728.1	5049.6	4581.3	4213.2	3995.3	3927.9
15°	8008.1	7853.9	7262.2	6526.0	5737.7	4856.9	4030.1	3451.9	3143.5	2971.9	2970.0
17.5°	7969.6	7755.6	6990.5	6046.0	5040.0	3906.7	3039.4	2598.0	2453.5	2470.9	2441.9
20°	7929.0	7640.0	6707.1	5512.2	4190.0	2914.1	2276.2	2096.9	2137.4	2216.5	2228.0
22.5°	7882.8	7516.6	6402.6	4924.4	3295.7	2193.3	1846.4	1819.4	1923.5	2046.8	2064.2
25°	7811.5	7362.5	6019.1	4309.5	2542.2	1767.4	1617.1	1636.3	1738.4	1842.5	1854.1
27.5°	7711.3	7171.6	5631.7	3542.5	1910.0	1516.8	1478.3	1503.3	1553.4	1617.1	1632.5
30°	7576.4	6955.7	5186.4	2879.4	1530.3	1391.5	1376.1	1389.6	1418.5	1445.5	1453.2
32.5°	7441.4	6747.6	4737.4	2204.8	1364.5	1308.7	1293.2	1293.2	1293.2	1297.1	1299.0
35°	7316.2	6551.1	4255.5	1717.2	1277.8	1243.2	1222.0	1198.8	1195.0	1181.4	1181.4
37.5°	7246.8	6371.8	3742.9	1437.8	1214.2	1189.2	1160.2	1121.7	1100.5	1102.5	1098.6
40°	7260.3	6254.2	3276.5	1279.7	1162.2	1135.2	1090.9	1046.5	1033.1	1033.1	1029.2
42.5°	7412.6	6215.7	2829.3	1196.9	1112.1	1081.3	1025.3	984.9	977.2	975.2	979.1
45°	7763.4	6310.1	2428.5	1142.9	1069.7	1023.4	967.5	930.9	923.2	923.2	921.2
47.5°	8447.5	6616.6	2141.3	1108.2	1038.8	979.1	921.2	884.6	871.2	867.3	867.3
50°	9511.5	7281.5	1927.3	1077.4	1000.3	938.6	878.8	836.5	815.3	813.3	811.4
52.5°	10989.7	8318.4	1844.5	1054.3	957.9	896.3	830.7	790.2	763.2	757.4	753.6
55°	12718.5	9765.9	1958.2	1036.9	913.6	848.1	780.5	738.1	713.1	701.6	699.6
57.5°	14721.0	11504.3	2389.9	1013.7	873.1	796.0	730.5	688.0	661.1	647.6	643.7
60°	16519.3	13290.9	3143.5	1000.3	838.4	740.1	672.6	634.1	609.1	595.5	593.7
62.5°	18494.8	14994.7	4043.5	1036.9	823.0	686.2	618.6	584.0	562.8	549.3	549.3
65°	20605.2	16700.4	4639.1	1160.2	846.1	643.7	560.9	531.9	512.7	503.0	501.1
67.5°	22027.6	17290.1	3821.9	1287.5	903.9	597.4	504.9	481.8	470.3	460.6	460.6
69°	21873.4	16544.2	2819.7	1320.2	921.2	574.3	474.2	456.7	441.4	437.5	433.6
70°	21385.8	15694.3	2363.0	1299.0	907.8	553.1	454.8	433.6	420.2	416.3	414.4
72.5°	19047.9	13610.8	1759.6	1129.4	772.9	479.9	402.8	383.6	372.0	366.2	366.2
75°	15825.3	11124.6	1374.2	898.1	605.2	404.8	345.0	329.6	319.9	316.0	314.2
77.5°	8869.6	6211.8	986.8	703.5	458.7	327.7	289.1	275.6	266.0	262.1	262.1
80°	2470.9	1775.1	580.1	464.5	312.3	248.6	229.3	219.8	206.2	196.6	202.3
82.5°	930.9	769.0	331.5	279.5	198.5	165.8	160.0	152.2	146.5	133.0	133.0
85°	453.0	373.9	212.0	148.4	109.8	86.7	82.8	79.1	75.2	65.5	67.4
87.5°	156.1	165.8	92.5	54.0	32.8	21.2	17.3	9.7	9.7	9.7	9.7
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)