

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: P652061

Luminaire Tested: **GALN-SA8A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652061
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-SA8A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA 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: 30782.3 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

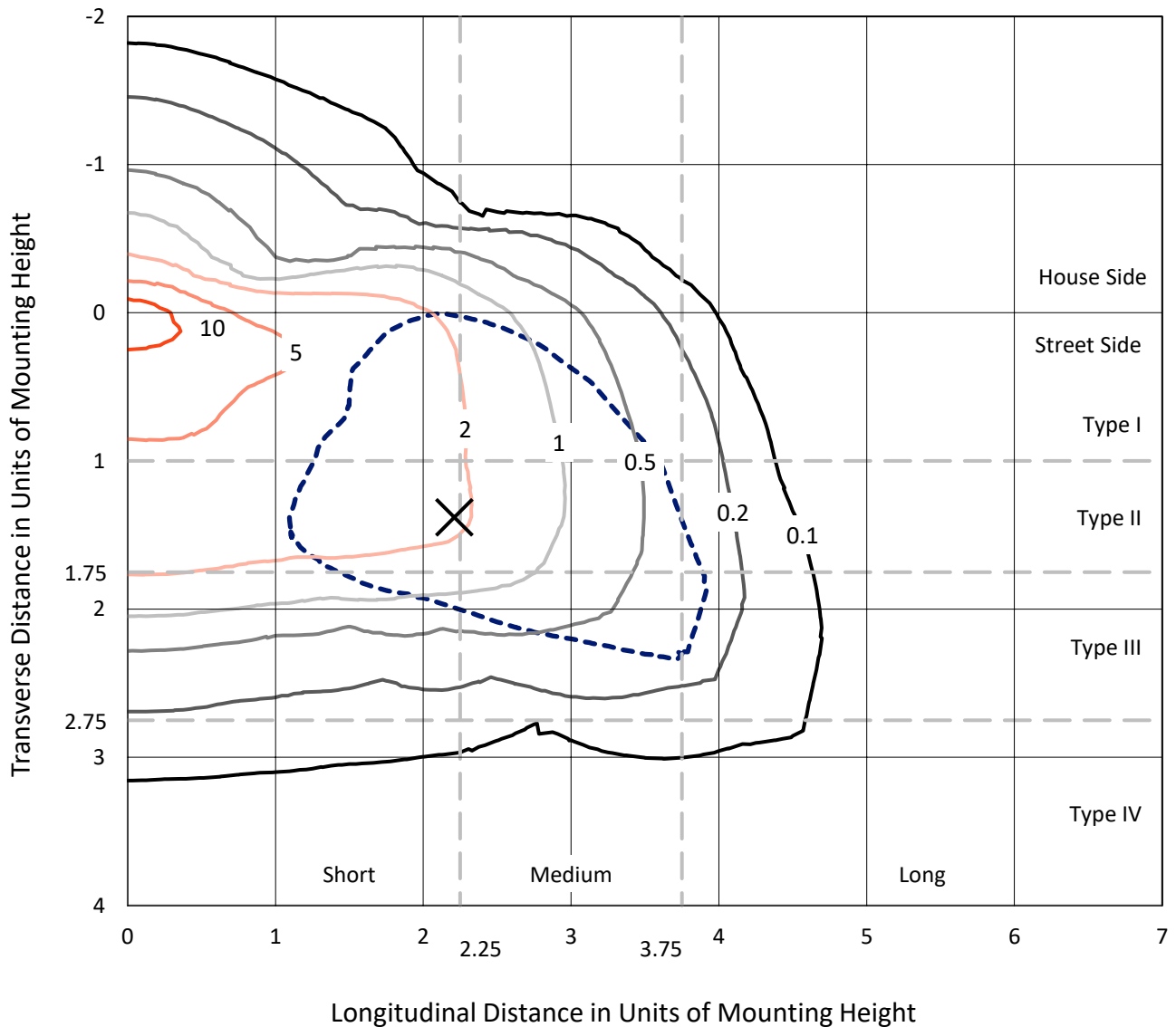
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

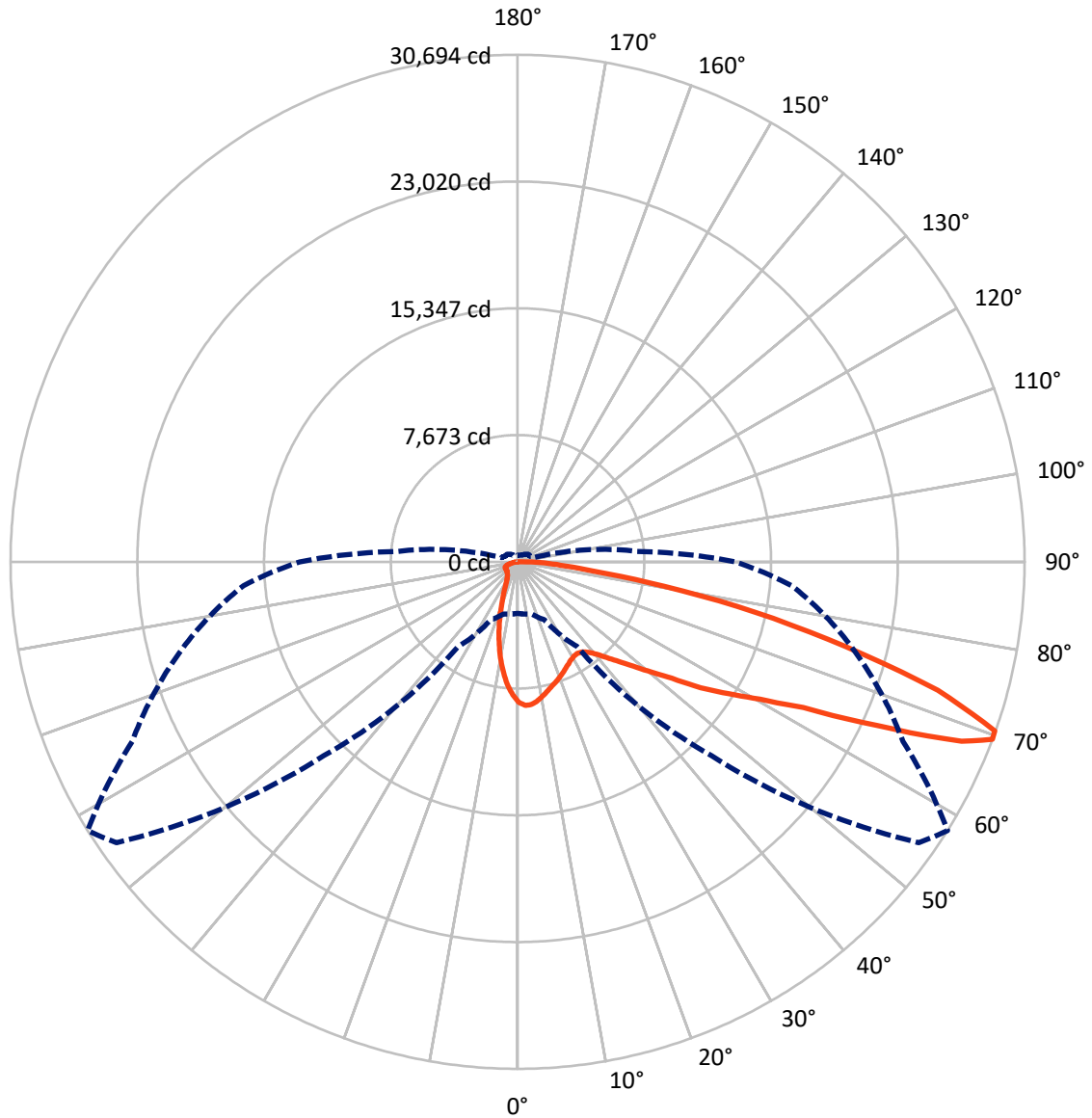
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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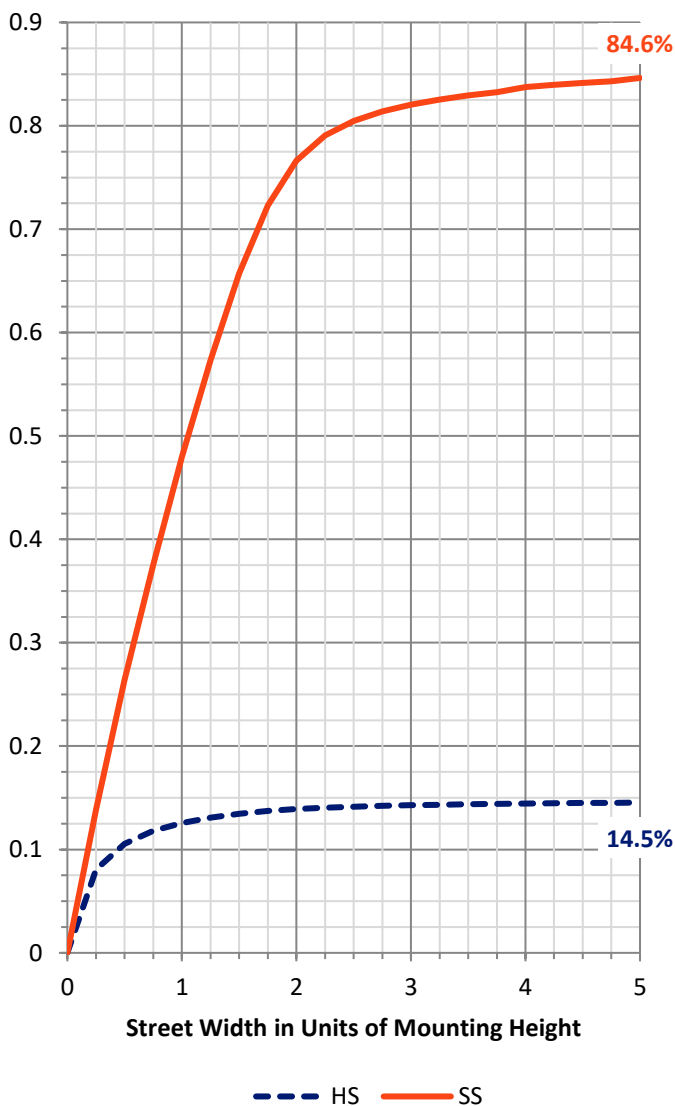
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4511.2	0.0	4511.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26271.1	0.0	26271.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	30782.3	0.0	30782.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.4	2.3
10°-20°	1586.3	5.2
20°-30°	2049.5	6.7
30°-40°	2661.9	8.6
40°-50°	3870.0	12.6
50°-60°	6175.2	20.1
60°-70°	8249.3	26.8
70°-80°	4755.4	15.4
80°-90°	712.3	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°	30782.3	100.0
0°-180°	30782.3	100.0

Coefficient of Utilization



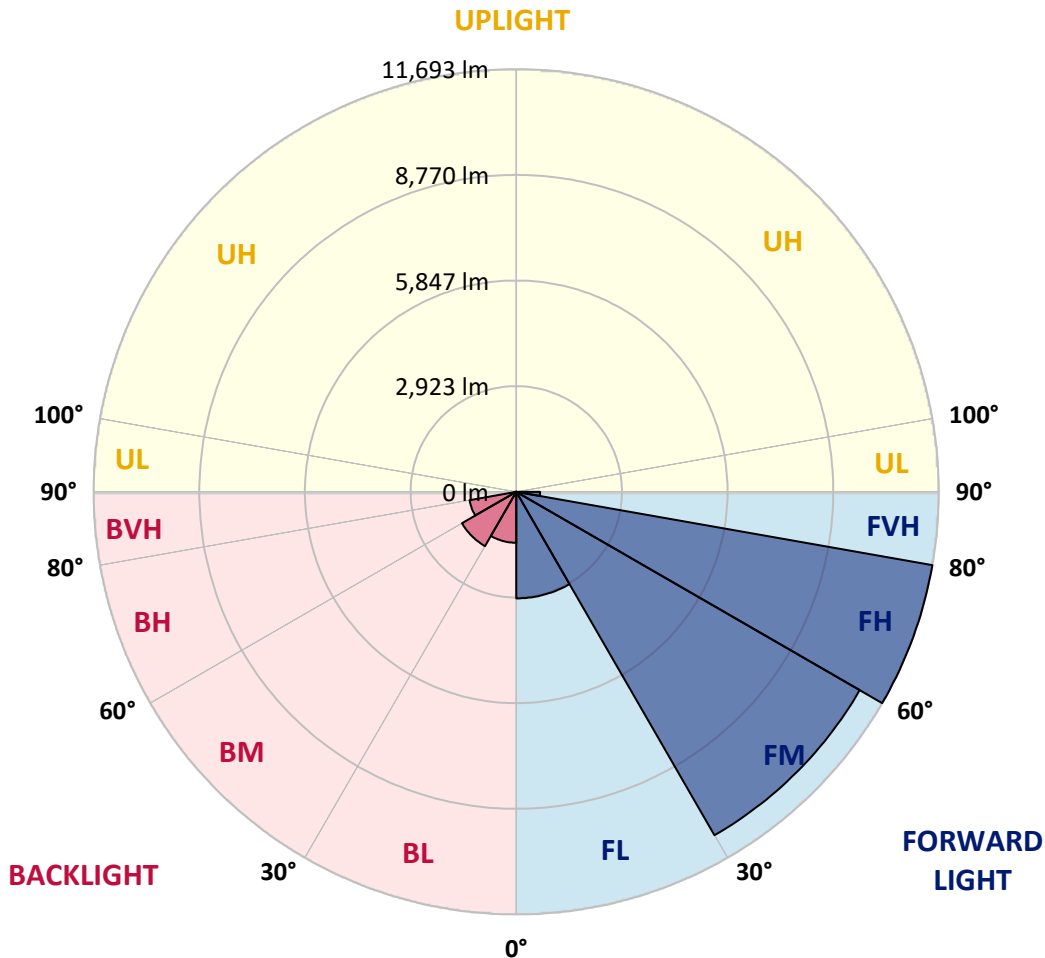
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2948.2	9.6			
FM (30°-60°)	10972.3	35.6			
FH (60°-80°)	11693.0	38.0			G4/12000
FVH (80°-90°)	657.7	2.1			G4/750
BL (0°-30°)	1410.0	4.6	B3/2500		
BM (30°-60°)	1734.8	5.6	B2/2500		
BH (60°-80°)	1311.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	54.6	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°	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4
2.5°	8822.3	8846.3	8839.5	8830.9	8817.1	8779.4	8717.6	8707.3	8667.8	8583.7	8479.0
5°	8686.7	8707.3	8709.0	8721.0	8738.2	8731.3	8686.7	8681.6	8623.2	8509.8	8334.7
7.5°	8221.4	8248.9	8309.0	8375.9	8436.1	8492.7	8506.4	8515.0	8479.0	8348.5	8115.0
10°	7697.8	7725.3	7752.8	7852.3	8000.0	8140.8	8257.5	8272.9	8281.5	8161.3	7876.4
12.5°	7117.6	7174.2	7232.6	7380.3	7577.7	7799.1	8005.1	8037.8	8096.1	8005.1	7670.3
15°	6624.9	6683.3	6767.4	6899.6	7138.2	7457.5	7747.6	7800.9	7915.8	7869.5	7478.1
17.5°	6283.3	6303.9	6362.2	6513.3	6770.8	7107.3	7495.2	7601.7	7785.4	7773.4	7313.3
20°	6013.7	6039.5	6075.6	6168.2	6436.0	6791.4	7260.1	7397.4	7646.4	7687.5	7150.2
22.5°	5900.5	5919.3	5914.2	5964.0	6145.9	6503.0	7021.4	7184.5	7522.7	7629.1	6999.1
25°	5907.3	5924.4	5898.7	5886.7	5994.8	6248.9	6772.5	6980.2	7423.2	7589.7	6861.8
27.5°	6022.3	6034.3	5986.2	5938.2	5946.8	6090.9	6566.5	6796.5	7339.1	7606.8	6746.8
30°	6176.8	6199.1	6168.2	6109.9	6046.4	6053.2	6434.3	6661.0	7299.5	7667.0	6691.8
32.5°	6376.0	6396.6	6382.9	6336.4	6254.1	6163.1	6401.7	6611.2	7303.0	7788.8	6679.8
35°	6585.4	6626.6	6648.9	6645.5	6578.6	6420.6	6530.4	6703.9	7385.4	7993.1	6750.2
37.5°	6822.3	6856.7	6952.8	7014.6	6952.8	6769.1	6820.6	6940.8	7567.4	8288.4	6904.7
40°	7052.4	7103.8	7244.6	7436.9	7412.8	7251.5	7263.5	7342.4	7888.4	8727.9	7206.9
42.5°	7292.6	7354.5	7599.9	7885.0	7941.6	7816.3	7848.9	7919.3	8345.1	9337.3	7725.3
45°	7601.7	7675.6	7977.6	8333.0	8556.2	8479.0	8571.6	8606.0	8956.2	10130.4	8408.6
47.5°	8000.0	8085.8	8458.4	8901.2	9217.1	9287.5	9448.9	9428.3	9713.3	11069.5	9294.4
50°	8671.2	8719.3	9071.2	9522.7	9957.0	10274.7	10449.8	10482.4	10652.4	11982.8	10284.9
52.5°	9469.5	9512.5	9766.5	10161.4	10705.6	11378.5	11811.2	11704.7	11745.9	13095.2	11443.7
55°	10367.3	10439.5	10600.8	10863.5	11569.0	12559.7	13428.3	13454.1	12997.4	14159.7	12554.4
57.5°	11062.6	11184.5	11460.9	11835.1	12729.6	13873.0	15040.3	15057.5	14473.8	15296.1	13780.2
60°	10712.4	10856.6	11488.4	12400.0	14252.3	16164.8	16966.5	16868.6	15910.7	16590.5	15275.5
62.5°	9201.7	9227.5	10145.9	11570.8	14721.0	19230.9	19833.5	19419.7	17828.3	18231.7	16794.9
65°	5955.4	6123.6	6851.5	8848.1	13181.1	20932.2	24856.6	23900.4	20516.7	20094.3	18067.0
67.5°	3759.7	3716.7	4018.9	5052.4	9066.1	19433.4	29143.3	28992.2	24032.6	21270.3	17763.0
69°	3117.6	3165.7	3268.6	3873.0	6238.6	16592.3	29649.7	30693.5	25737.3	21177.6	16659.2
70°	2827.4	2849.8	2958.0	3433.5	4813.7	13896.9	28818.8	30647.1	26406.8	20789.7	15859.2
72.5°	2243.8	2242.0	2427.5	2856.6	3598.3	7933.1	23663.5	26607.6	25658.3	18983.6	13103.9
75°	1704.7	1732.2	1936.5	2417.2	3315.1	4334.8	16513.3	20491.0	20492.6	14993.9	8176.8
77.5°	1229.2	1246.4	1485.0	2029.2	3122.7	3514.1	10999.1	14697.0	13816.3	6870.4	2569.9
80°	805.2	815.4	997.4	1606.9	2815.4	3315.1	6521.9	8995.7	6516.7	1823.2	849.7
82.5°	441.2	492.7	609.5	1040.3	2259.3	3062.7	3964.0	4552.8	2444.6	812.0	443.0
85°	221.4	235.2	343.4	607.7	1476.4	2533.9	2760.5	2611.1	1261.8	403.4	230.0
87.5°	65.3	82.4	142.5	235.2	599.1	1320.2	1536.5	1378.6	485.8	145.9	48.1
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°	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4	8506.4
2.5°	8436.1	8405.1	8267.8	8144.2	8030.9	7910.7	7809.4	7720.1	7728.7	7730.5	7639.5
5°	8243.7	8173.3	7912.5	7668.7	7462.6	7201.7	6978.5	6834.3	6762.2	6666.1	6700.4
7.5°	7982.9	7847.2	7485.0	7079.8	6700.4	6362.2	5994.8	5742.5	5581.1	5424.9	5445.5
10°	7713.3	7495.2	6968.2	6432.6	5941.6	5400.8	4932.2	4530.5	4231.7	4120.1	4046.3
12.5°	7436.9	7150.2	6480.7	5768.3	5090.2	4442.9	3778.5	3347.6	3018.0	2842.9	2865.2
15°	7184.5	6836.1	5972.5	5103.9	4223.2	3452.4	2789.7	2379.4	2149.3	2101.3	2128.7
17.5°	6951.0	6494.4	5496.9	4458.4	3430.0	2588.9	2096.1	1864.4	1771.7	1745.9	1744.2
20°	6710.7	6204.3	4963.1	3768.3	2673.0	2006.9	1720.2	1612.0	1594.9	1605.1	1606.9
22.5°	6467.0	5845.5	4413.7	3083.3	2128.7	1641.2	1503.9	1474.7	1488.4	1512.5	1515.9
25°	6242.1	5529.6	3885.0	2482.4	1699.6	1442.1	1375.1	1375.1	1406.0	1442.1	1443.7
27.5°	6056.6	5224.0	3357.9	1970.8	1423.1	1297.8	1275.5	1287.6	1330.5	1358.0	1359.6
30°	5903.8	4939.0	2860.1	1579.4	1251.5	1182.9	1177.7	1198.3	1229.2	1254.9	1256.6
32.5°	5788.9	4688.4	2394.8	1327.0	1133.1	1095.3	1093.6	1109.0	1126.2	1133.1	1139.9
35°	5744.2	4480.7	1969.1	1167.4	1054.1	1030.1	1030.1	1028.3	1035.2	1038.6	1042.1
37.5°	5780.3	4321.1	1639.4	1064.4	995.7	978.5	968.2	957.9	954.5	954.5	956.2
40°	5933.0	4236.9	1394.0	997.4	954.5	928.7	909.9	897.9	885.8	889.3	892.7
42.5°	6257.5	4252.3	1227.4	952.8	918.5	882.4	855.0	841.2	832.6	842.9	841.2
45°	6774.3	4406.8	1121.1	921.9	882.4	836.0	810.3	796.6	796.6	812.0	817.2
47.5°	7497.0	4702.1	1064.4	897.9	855.0	800.0	774.2	764.0	767.4	793.1	794.8
50°	8379.4	5215.5	1054.1	885.8	841.2	774.2	745.0	734.8	743.4	770.8	774.2
52.5°	9352.8	5876.4	1103.9	887.6	829.1	758.8	721.0	705.6	714.2	736.5	743.4
55°	10506.4	6703.9	1232.7	894.4	812.0	750.2	703.8	669.5	679.9	695.3	697.0
57.5°	11684.1	7747.6	1459.2	896.2	798.3	734.8	674.7	630.1	630.1	640.3	645.5
60°	13122.7	8884.1	1757.9	897.9	800.0	712.4	635.2	585.4	578.5	583.7	585.4
62.5°	14551.1	9835.2	1807.7	892.7	817.2	690.1	592.2	540.8	528.7	527.1	523.6
65°	15181.1	9658.4	1481.5	868.7	836.0	676.4	557.9	497.9	477.3	470.4	470.4
67.5°	14154.5	8170.0	1114.2	836.0	824.0	662.6	525.3	461.8	437.7	424.0	424.0
69°	13189.7	7266.9	1000.9	813.8	793.1	640.3	504.7	443.0	413.8	398.3	393.2
70°	12444.6	6645.5	952.8	794.8	764.0	614.6	489.3	429.2	396.5	379.4	375.9
72.5°	9931.3	5213.7	834.4	722.8	650.7	516.7	434.3	386.3	355.3	336.5	331.4
75°	5723.6	2825.8	691.8	628.3	523.6	401.7	367.3	336.5	312.4	295.3	290.1
77.5°	1761.4	1091.9	501.3	496.1	384.6	310.7	293.6	281.6	264.4	245.5	242.0
80°	741.6	556.2	339.9	334.8	255.8	216.3	211.2	209.4	202.6	187.1	182.0
82.5°	406.9	314.2	236.9	206.0	154.5	125.3	130.4	132.2	127.1	111.6	101.3
85°	199.1	171.6	115.0	92.7	70.4	44.7	42.9	51.5	48.1	34.3	37.8
87.5°	39.4	48.1	30.9	13.7	6.9	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)