

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: P650981

Luminaire Tested: **GALN-SA6C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20937.5 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

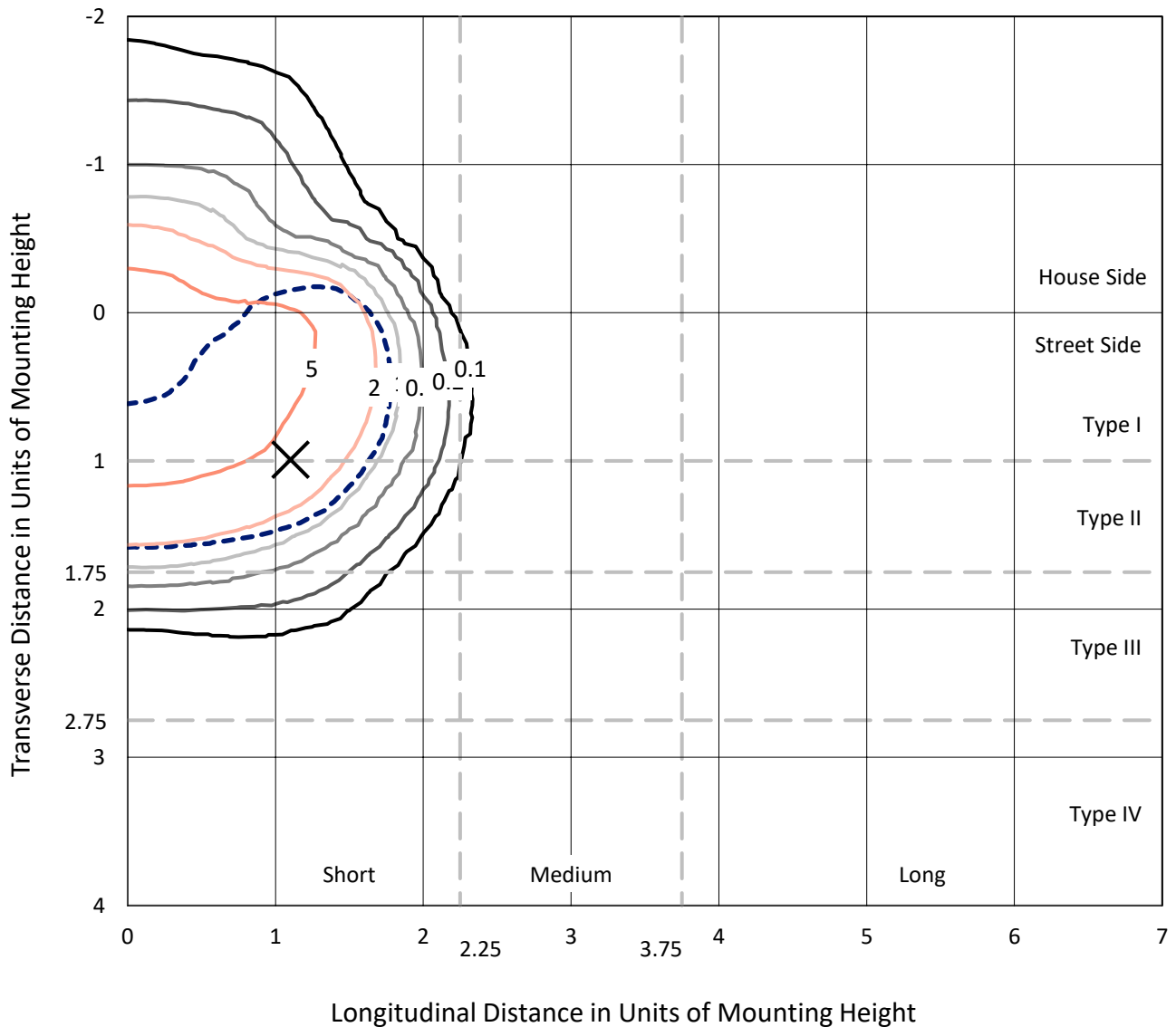
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650981
 CATALOG NUMBER: GALN-SA6C-840-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

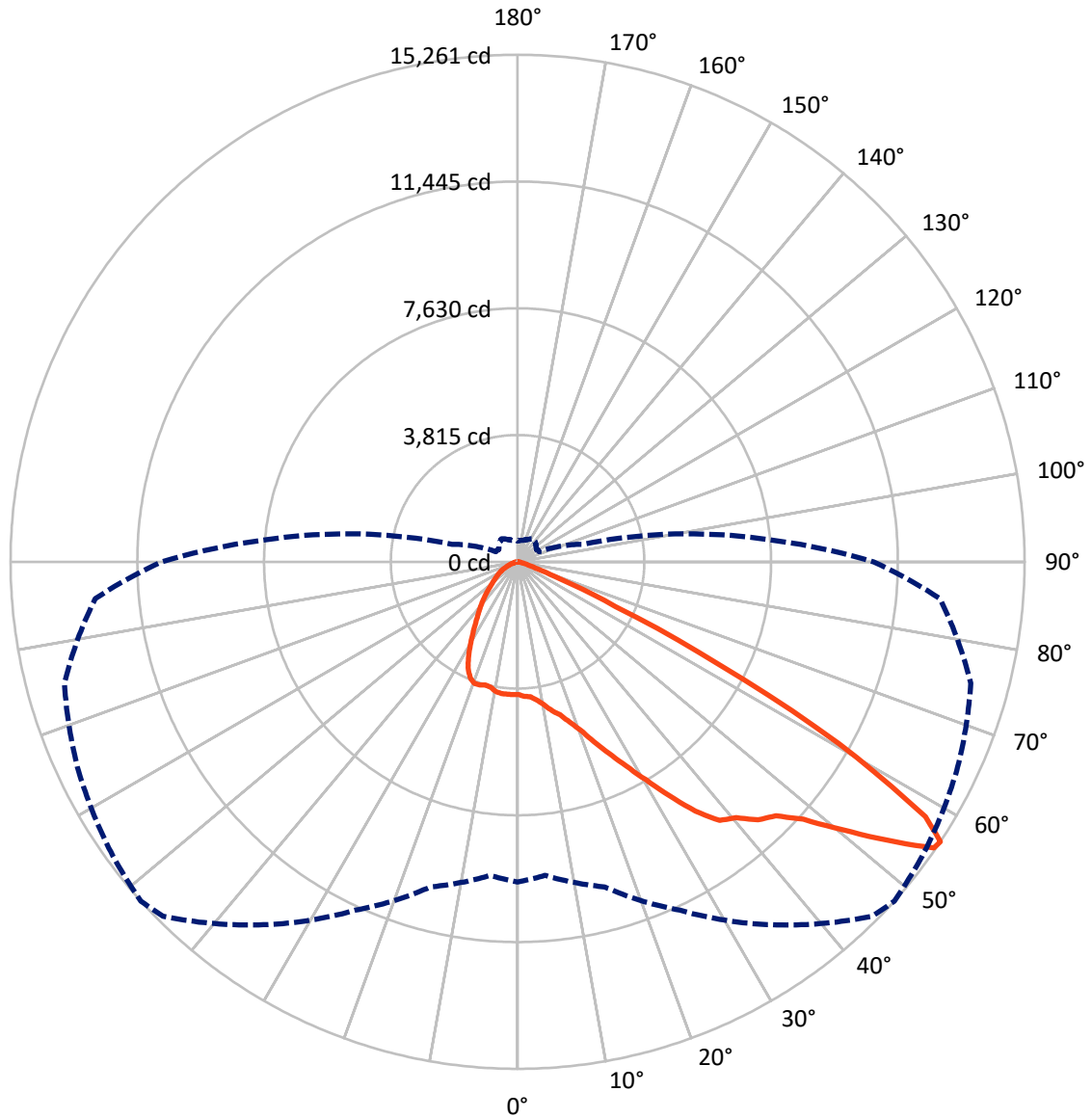
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

REPORT NUMBER: P650981
CATALOG NUMBER: GALN-SA6C-840-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P650981
 CATALOG NUMBER: GALN-SA6C-840-U-T3-GRSBK

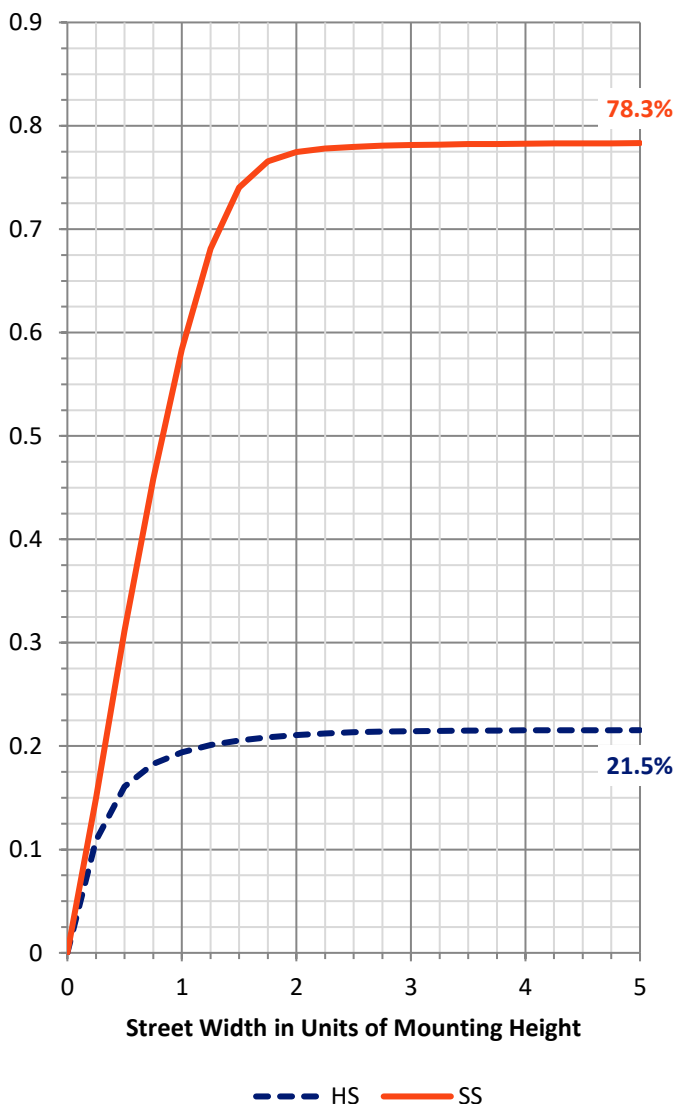
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4553.5	0.0	4553.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16384.0	0.0	16384.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	20937.5	0.0	20937.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.5	1.9
10°-20°	1244.9	5.9
20°-30°	2258.1	10.8
30°-40°	3547.0	16.9
40°-50°	5174.4	24.7
50°-60°	6234.2	29.8
60°-70°	1825.3	8.7
70°-80°	231.6	1.1
80°-90°	32.5	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°	20937.5	100.0
0°-180°	20937.5	100.0

Coefficient of Utilization

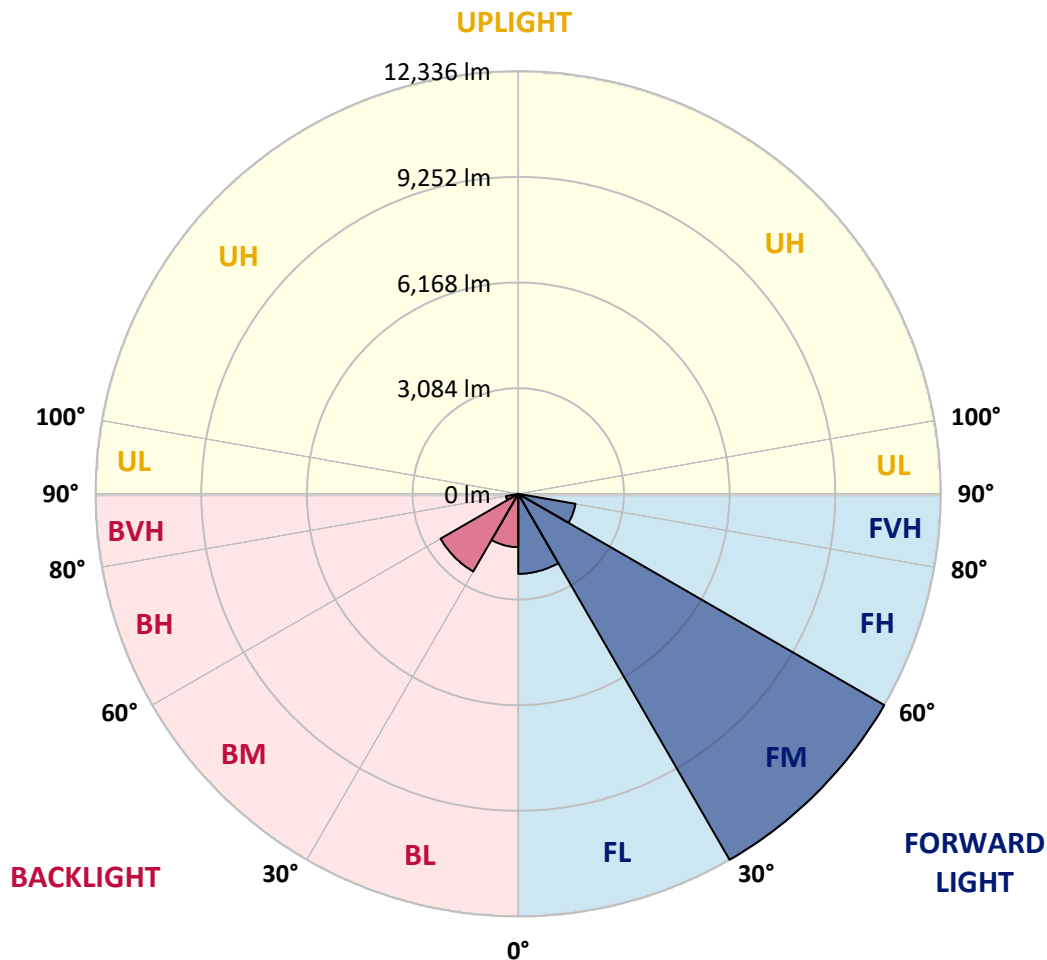


REPORT NUMBER: P650981
 CATALOG NUMBER: GALN-SA6C-840-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.2	11.2			
FM (30°-60°)	12336.5	58.9			
FH (60°-80°)	1695.1	8.1			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1556.4	7.4	B3/2500		
BM (30°-60°)	2619.2	12.5	B3/5000		
BH (60°-80°)	361.8	1.7	B1/500		G1/500
BVH (80°-90°)	16.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P650981

CATALOG NUMBER: GALN-SA6C-840-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0
2.5°	4071.5	4052.4	4052.4	4021.9	4056.2	4041.0	4052.4	4014.3	4052.4	3995.3	4041.0
5°	4090.5	4094.4	4079.1	4098.2	4098.2	4121.1	4083.0	4117.3	4136.3	4094.4	4075.3
7.5°	4189.7	4197.3	4193.5	4178.3	4208.8	4204.9	4201.1	4174.5	4182.0	4166.8	4143.9
10°	4384.1	4380.3	4399.4	4361.3	4338.4	4365.0	4372.7	4330.7	4300.3	4288.8	4216.4
12.5°	4666.2	4620.5	4593.8	4555.7	4567.1	4529.0	4597.6	4525.2	4509.9	4441.3	4368.9
15°	4895.0	4887.3	4891.2	4830.1	4761.6	4776.8	4776.8	4738.7	4715.8	4631.9	4529.0
17.5°	5363.9	5203.8	5238.1	5161.8	5104.6	5100.8	5066.5	5074.2	5013.1	4837.8	4681.5
20°	5729.8	5661.2	5607.9	5478.3	5390.6	5417.2	5402.0	5363.9	5344.8	5116.1	4895.0
22.5°	6057.7	6080.6	5992.9	5958.6	5836.6	5848.1	5878.5	5844.2	5699.4	5463.0	5135.1
25°	6519.0	6492.3	6374.1	6332.2	6217.8	6259.7	6378.0	6351.2	6259.7	5832.8	5321.9
27.5°	7064.1	6972.6	6995.5	6805.0	6694.4	6812.5	6953.6	7087.0	6827.8	6267.4	5543.0
30°	7449.2	7353.9	7346.2	7338.7	7311.9	7449.2	7613.2	7735.1	7525.4	6702.0	5909.0
32.5°	7639.8	7662.7	7727.4	7704.7	7937.2	8219.3	8390.8	8566.2	8303.1	7411.1	6393.2
35°	8146.9	8001.9	8146.9	8162.1	8402.3	9000.8	9218.1	9637.4	9572.6	8413.7	6984.1
37.5°	8444.2	8432.8	8451.8	8596.7	8829.2	9568.8	9877.6	10201.7	10079.6	9016.0	7719.9
40°	8936.0	8966.5	8962.6	9073.2	9328.6	9995.8	10121.6	10384.7	10396.1	9850.9	8802.6
42.5°	9725.2	9603.1	9523.1	9637.4	9995.8	10365.6	10617.2	10563.8	10941.2	10865.0	10194.0
45°	10434.2	10506.6	10388.5	10579.1	10708.7	10906.9	10899.3	11013.7	11494.0	11856.2	11242.4
47.5°	11097.5	11143.2	11200.4	11330.1	11612.2	11642.7	11577.9	11528.3	12191.6	12565.3	12054.4
50°	11494.0	11535.9	11802.8	12035.4	12561.4	12630.1	12668.2	12542.4	12992.3	13034.2	12820.7
52.5°	11387.3	11433.1	11806.6	12572.9	13411.6	14040.6	13926.3	13712.8	13686.1	13850.0	13529.8
55°	10441.9	10399.9	10914.6	12107.8	13678.4	15188.1	15203.3	14978.5	14547.6	14437.1	13423.0
56°	9637.4	9473.5	10129.3	11570.2	13335.3	15089.0	15260.5	15020.3	14616.2	14120.6	12763.5
57.5°	7895.2	8051.6	8703.4	9896.6	12149.8	14376.1	14475.2	14418.0	14113.1	13282.0	11231.0
60°	4353.6	4628.1	5203.8	6663.8	8650.0	11032.7	11112.8	11577.9	11635.1	10171.1	7727.4
62.5°	1848.9	1818.5	2416.9	3492.1	4925.5	6660.0	6808.7	7285.2	7373.0	5863.3	3877.1
65°	751.0	793.0	1094.1	1757.4	2603.8	3034.6	3244.2	3400.6	3690.3	2420.8	1429.6
67.5°	495.6	491.8	644.3	1002.6	1403.0	1353.3	1353.3	1429.6	1322.9	987.4	617.6
70°	354.6	366.0	461.3	693.8	873.0	648.1	621.4	594.8	674.7	651.9	499.4
72.5°	232.5	247.8	308.8	415.5	453.6	354.6	354.6	427.0	556.6	526.1	407.9
75°	152.5	156.3	190.7	240.2	224.9	183.0	202.1	285.9	404.1	388.9	289.7
77.5°	102.9	106.7	129.6	156.3	125.8	102.9	110.6	144.9	198.2	198.2	152.5
80°	38.1	42.0	53.4	49.5	57.2	72.4	80.1	99.2	118.2	118.2	102.9
82.5°	0.0	3.8	11.4	26.7	42.0	57.2	64.8	76.3	87.7	99.2	95.3
85°	0.0	3.8	11.4	19.1	30.5	34.3	38.1	26.7	22.9	22.9	19.1
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.7	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650981

CATALOG NUMBER: GALN-SA6C-840-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0	3999.0
2.5°	3999.0	3995.3	3995.3	3983.8	4006.7	3995.3	4002.9	3999.0	3949.5	3987.6	3960.9
5°	4041.0	4067.7	4025.8	4018.1	3987.6	3999.0	3999.0	3960.9	3995.3	3991.5	3983.8
7.5°	4147.7	4102.0	4056.2	4010.5	4002.9	3991.5	3949.5	3934.3	3960.9	3930.5	3976.2
10°	4193.5	4201.1	4132.5	4071.5	4014.3	3934.3	3877.1	3842.8	3800.8	3846.6	3873.3
12.5°	4403.1	4326.9	4208.8	4113.4	3919.1	3839.0	3781.8	3766.5	3839.0	3854.2	3827.6
15°	4475.6	4464.2	4311.7	4098.2	3896.2	3800.8	3812.3	3781.8	3789.4	3751.3	3758.9
17.5°	4624.3	4494.6	4315.5	4048.7	3892.3	3869.4	3800.8	3678.9	3610.2	3579.7	3606.4
20°	4788.2	4662.4	4403.1	4067.7	3926.6	3865.7	3640.7	3492.1	3351.0	3274.8	3278.6
22.5°	4933.1	4776.8	4365.0	4075.3	3957.2	3705.5	3434.9	3141.3	2966.0	2847.8	2851.6
25°	5108.5	4887.3	4380.3	4090.5	3877.1	3450.1	3061.2	2775.3	2565.6	2485.6	2512.3
27.5°	5207.6	4955.9	4464.2	4124.9	3667.4	3088.0	2668.6	2401.7	2279.8	2241.6	2237.8
30°	5504.9	5108.5	4567.1	4056.2	3316.7	2699.1	2310.2	2146.3	2028.2	1993.8	2001.4
32.5°	5947.1	5386.8	4700.5	3877.1	2958.3	2352.2	2077.7	1955.7	1845.2	1780.3	1772.7
35°	6316.9	5863.3	4841.6	3598.8	2542.8	2085.3	1913.8	1761.3	1593.5	1521.1	1502.0
37.5°	7022.2	6400.9	4811.1	3179.4	2146.3	1887.0	1738.4	1551.6	1406.7	1307.6	1296.1
40°	7960.1	7029.8	4662.4	2668.6	1852.8	1711.7	1551.6	1372.4	1193.2	1109.4	1101.7
42.5°	9099.9	7799.9	4391.7	2150.1	1559.2	1536.3	1391.5	1185.6	1025.5	964.5	968.3
45°	10026.3	8459.5	4117.3	1727.0	1341.9	1364.8	1239.0	1044.5	934.0	884.5	884.5
47.5°	10849.7	8905.5	3819.9	1425.8	1139.9	1193.2	1082.7	968.3	873.0	834.9	827.3
50°	11642.7	9359.2	3522.5	1155.1	972.1	1025.5	1014.1	922.6	846.3	800.5	804.4
52.5°	12138.3	9431.6	3145.1	945.5	850.2	911.1	949.2	865.4	781.5	754.8	747.2
55°	11532.1	8497.5	2439.8	777.7	720.5	800.5	873.0	777.7	712.9	667.2	663.3
56°	10716.3	7597.8	2039.6	716.7	682.4	770.1	846.3	743.4	670.9	644.3	625.2
57.5°	9073.2	6217.8	1505.8	636.6	632.9	716.7	804.4	709.0	625.2	602.3	602.3
60°	5657.4	3499.7	911.1	533.7	549.0	636.6	724.4	632.9	556.6	556.6	568.0
62.5°	2577.1	1456.3	552.8	453.6	472.7	549.0	644.3	571.9	529.9	571.9	579.4
65°	876.8	629.0	400.3	362.1	373.6	453.6	552.8	579.4	575.7	602.3	617.6
67.5°	491.8	404.1	335.5	301.2	293.5	335.5	453.6	579.4	556.6	545.1	552.8
70°	415.5	343.1	297.4	266.8	255.4	270.6	350.7	438.4	392.7	381.2	373.6
72.5°	335.5	285.9	259.2	240.2	205.9	175.3	160.1	167.8	186.8	198.2	217.3
75°	236.3	217.3	217.3	194.4	148.7	110.6	87.7	72.4	49.5	34.3	38.1
77.5°	133.5	133.5	137.3	118.2	95.3	72.4	53.4	38.1	19.1	7.7	3.8
80°	91.5	99.2	106.7	95.3	80.1	64.8	45.8	26.7	11.4	0.0	0.0
82.5°	91.5	102.9	110.6	95.3	80.1	61.0	45.8	26.7	11.4	3.8	0.0
85°	19.1	22.9	26.7	30.5	45.8	45.8	34.3	22.9	11.4	3.8	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	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)