

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: P652379

Luminaire Tested: **GALN-SA5B-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652379
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-SA5B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19634.8 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 204
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

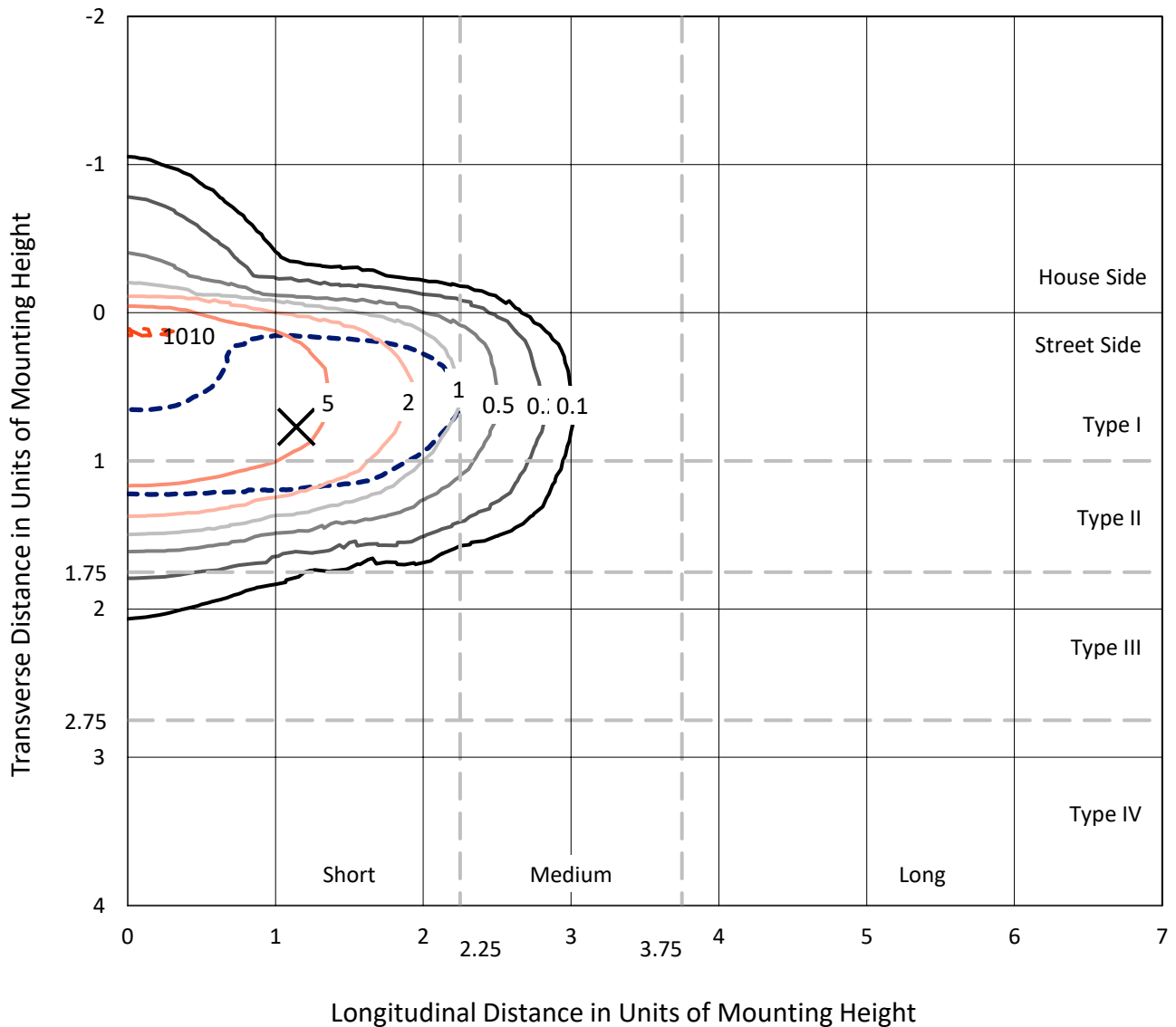




REPORT NUMBER: P652379
 CATALOG NUMBER: GALN-SA5B-840-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

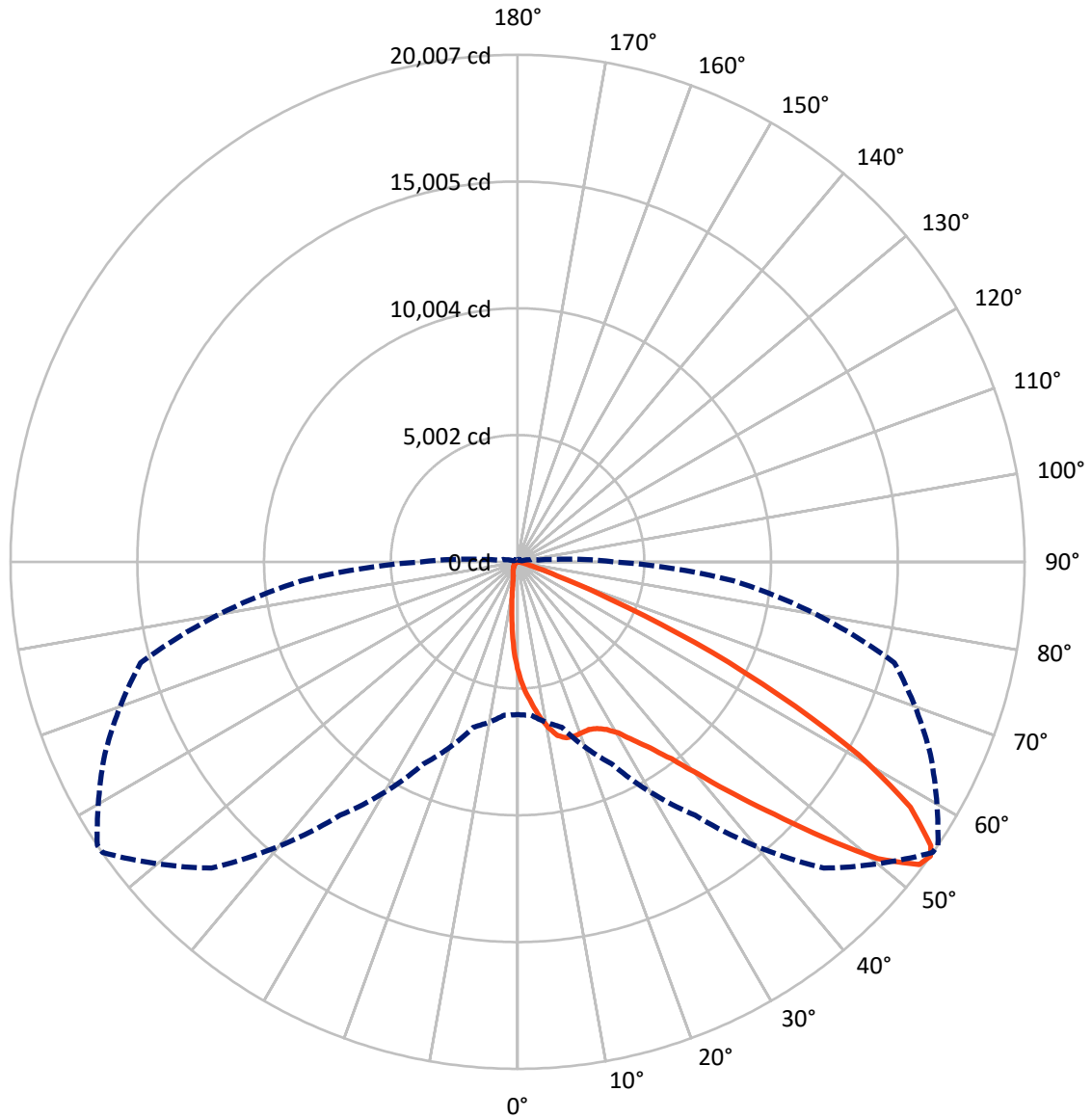
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

REPORT NUMBER: P652379
CATALOG NUMBER: GALN-SA5B-840-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652379
 CATALOG NUMBER: GALN-SA5B-840-U-AFL-HSS

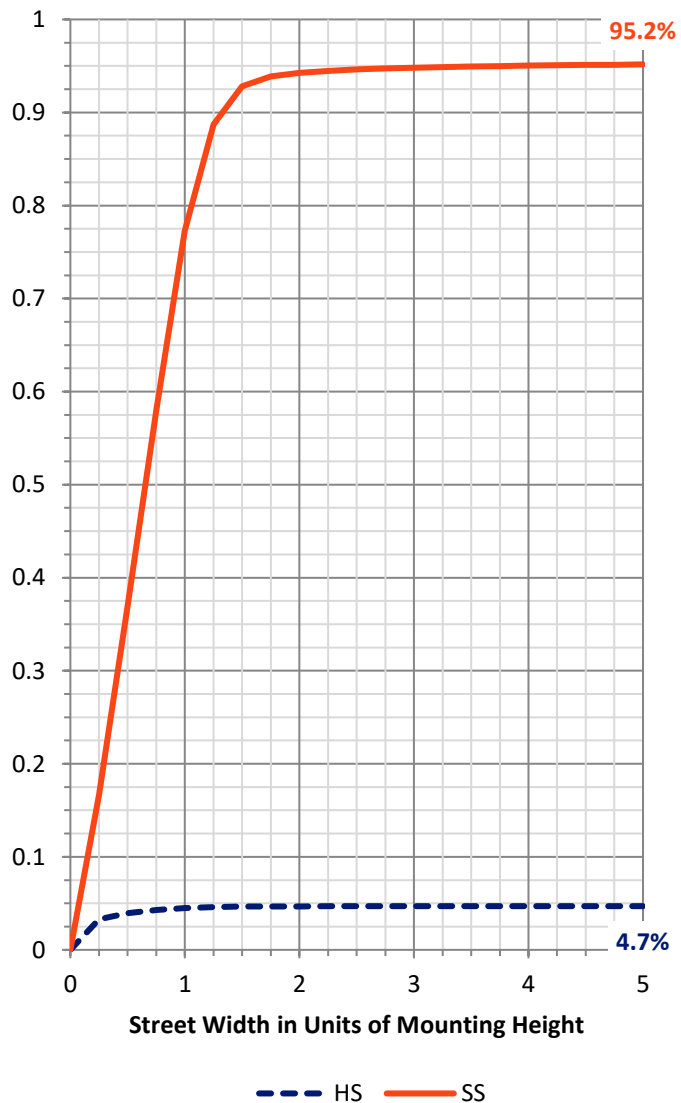
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.5	0.0	928.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18706.4	0.0	18706.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	19634.8	0.0	19634.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	2.0
10°-20°	1042.1	5.3
20°-30°	1804.8	9.2
30°-40°	3115.3	15.9
40°-50°	5302.4	27.0
50°-60°	5247.4	26.7
60°-70°	2395.0	12.2
70°-80°	307.6	1.6
80°-90°	34.7	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°	19634.8	100.0
0°-180°	19634.8	100.0

Coefficient of Utilization

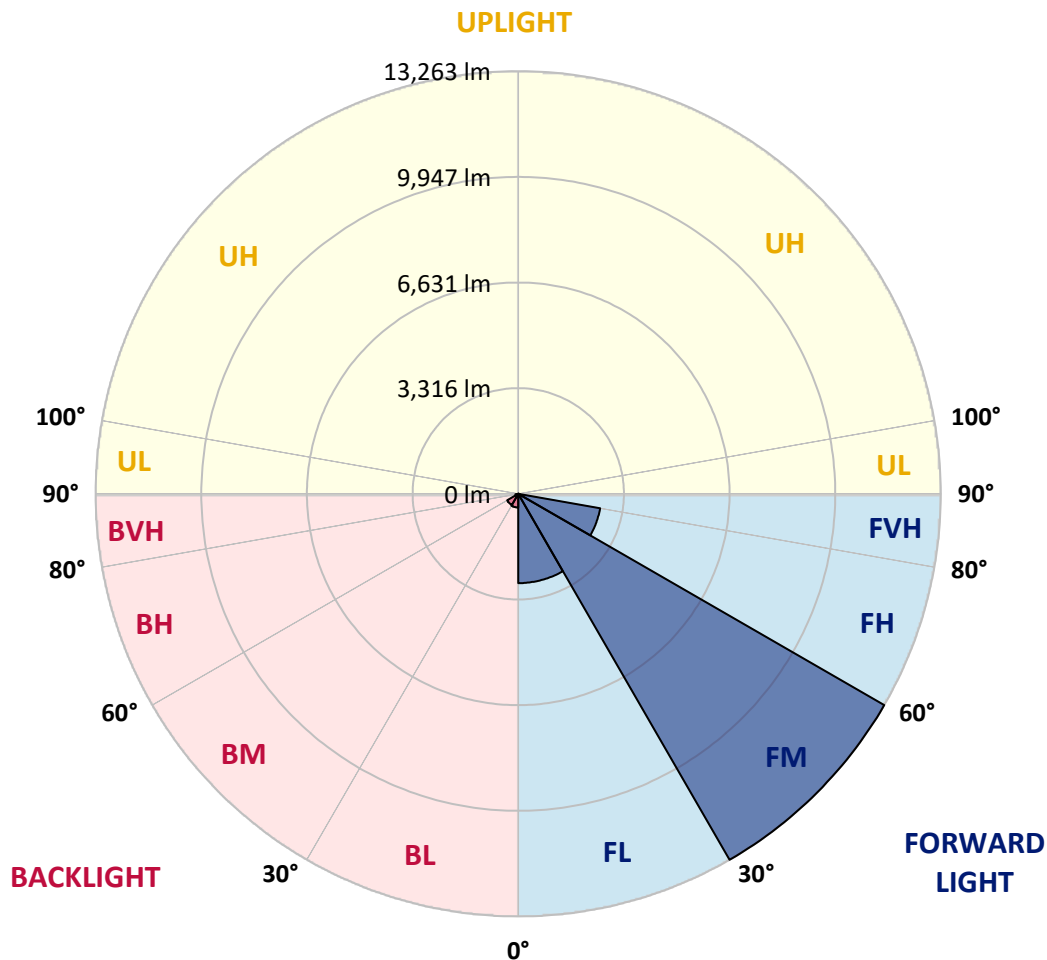


REPORT NUMBER: P652379
 CATALOG NUMBER: GALN-SA5B-840-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2802.9	14.3			
FM (30°-60°)	13262.8	67.5			
FH (60°-80°)	2609.6	13.3			G2/5000
FVH (80°-90°)	30.9	0.2			G1/100
BL (0°-30°)	429.4	2.2	B1/500		
BM (30°-60°)	402.4	2.0	B1/1000		
BH (60°-80°)	93.0	0.5	B0/110		G0/110
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





REPORT NUMBER: P652379

CATALOG NUMBER: GALN-SA5B-840-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3
2.5°	5544.0	5505.5	5452.5	5411.5	5314.8	5175.7	5028.6	5028.6	4886.9	4689.5	4488.2
5°	6394.4	6369.2	6317.6	6211.6	6103.0	5908.3	5612.8	5561.2	5308.1	4950.5	4574.3
7.5°	6740.2	6752.1	6754.7	6726.9	6675.3	6483.2	6190.4	6154.6	5750.6	5271.1	4686.8
10°	6409.0	6467.3	6524.2	6639.4	6802.4	6848.8	6683.2	6646.1	6248.7	5595.6	4808.8
12.5°	5916.2	5948.0	5979.8	6161.3	6488.5	6863.4	7036.9	7035.6	6699.1	5918.9	4963.8
15°	5687.0	5714.8	5717.5	5798.3	6081.8	6627.6	7187.9	7207.8	7138.9	6317.6	5130.6
17.5°	5734.7	5757.2	5738.6	5758.6	5906.9	6367.9	7170.7	7236.9	7495.2	6700.4	5281.6
20°	6046.0	6089.8	6018.2	5962.5	6007.6	6299.0	7112.4	7205.1	7747.0	7074.0	5419.4
22.5°	6605.0	6628.8	6538.8	6386.5	6307.0	6443.4	7096.5	7187.9	7961.6	7380.0	5498.9
25°	7226.3	7218.4	7119.1	6948.2	6781.2	6734.9	7201.1	7283.3	8139.0	7655.5	5522.8
27.5°	7847.6	7871.5	7704.6	7492.6	7292.6	7172.0	7435.6	7496.6	8339.1	7969.5	5551.9
30°	8569.6	8531.2	8366.9	8124.5	7895.3	7727.1	7813.1	7830.4	8614.6	8385.4	5628.7
32.5°	9508.9	9402.9	9218.7	8794.8	8630.5	8345.7	8366.9	8388.1	8949.8	8797.4	5721.5
35°	10783.2	10777.9	10417.6	9846.6	9446.5	9092.9	9000.1	9017.4	9457.1	9409.4	5926.8
37.5°	12317.2	12338.4	11927.7	11352.8	10616.3	10054.6	9863.8	9866.5	10228.2	10254.6	6239.4
40°	13566.4	13622.1	13377.0	12988.8	12261.6	11383.3	11062.7	11033.6	11311.8	11278.7	6685.9
42.5°	14104.2	14156.0	14247.3	14382.4	13982.4	13257.8	12501.4	12541.1	12625.8	12394.1	7186.6
45°	13840.7	13922.8	14281.8	15116.4	15492.6	15248.8	14346.7	14207.6	13848.6	13606.2	7690.0
47.5°	12742.5	12942.5	13542.6	14932.2	16249.0	17073.0	16429.1	16245.0	15072.7	14491.1	8010.5
50°	10936.9	10948.8	11784.7	13561.1	15856.9	18224.1	18555.3	18417.6	16213.2	14987.9	8172.2
52.5°	7928.4	8189.4	8955.1	11012.4	14158.6	18049.3	19910.5	19853.6	17389.5	15242.2	8405.3
54°	6027.4	6077.8	6758.7	8800.1	12207.3	17088.9	19993.9	20007.2	17973.8	15395.9	8543.1
55°	4941.2	4820.6	5536.0	7496.6	10875.9	16239.7	19721.0	19784.7	18236.1	15475.3	8645.1
57.5°	2342.1	2343.4	2890.5	3954.3	6811.7	12610.0	18053.2	18278.5	18265.2	15611.8	8959.1
60°	1185.6	1193.5	1314.1	1825.5	3364.8	8382.8	14926.9	15463.5	16859.7	15631.7	9062.4
62.5°	829.3	820.0	800.1	878.3	1416.2	4260.3	11113.1	11579.4	14324.2	14875.3	8733.9
65°	710.1	690.2	634.5	622.6	715.4	1697.0	6921.7	7682.0	10936.9	12880.3	7798.6
67.5°	606.7	598.8	548.4	518.0	506.0	739.2	3571.5	3971.5	7475.4	9258.5	5906.9
70°	515.3	511.3	480.9	442.5	409.3	442.5	1324.7	1641.3	4166.2	4984.9	2787.2
72.5°	418.6	422.6	427.9	378.9	344.4	313.9	565.7	658.4	1743.3	1781.7	975.0
75°	366.9	363.0	363.0	329.8	287.5	233.1	311.3	335.1	533.9	495.4	226.6
77.5°	258.4	249.0	291.4	271.6	239.8	165.6	177.5	188.1	221.3	189.4	106.0
80°	178.8	178.8	186.8	243.7	216.0	120.5	108.7	116.6	131.1	112.6	61.0
82.5°	100.7	103.4	121.9	129.9	125.8	80.8	71.6	72.8	87.5	76.9	38.4
85°	11.9	19.8	70.2	68.9	51.6	35.7	39.8	41.0	54.3	47.7	22.5
87.5°	1.3	2.7	14.5	18.6	13.3	14.5	14.5	14.5	18.6	21.2	15.9
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: P652379

CATALOG NUMBER: GALN-SA5B-840-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3	4362.3
2.5°	4379.5	4278.8	4039.1	3760.9	3583.3	3294.5	3050.8	2874.6	2830.9	2746.1	2771.3
5°	4374.2	4164.9	3676.1	3159.5	2608.4	2197.7	1891.7	1650.6	1544.6	1474.4	1425.4
7.5°	4376.9	4049.7	3265.4	2442.8	1784.4	1381.7	1098.2	951.2	853.1	812.1	817.4
10°	4384.8	3919.8	2788.5	1809.6	1204.1	892.9	719.3	649.1	616.0	610.7	609.4
12.5°	4403.4	3778.1	2332.8	1343.2	842.5	649.1	582.9	559.0	548.4	548.4	544.5
15°	4423.2	3621.8	1954.0	998.9	649.1	557.7	527.2	515.3	508.7	508.7	507.4
17.5°	4423.2	3441.6	1600.3	775.0	559.0	512.7	488.8	472.9	467.6	467.6	466.3
20°	4395.4	3232.3	1286.3	623.9	507.4	470.3	446.4	429.2	422.6	419.9	418.6
22.5°	4298.7	2952.8	1024.0	536.5	465.0	433.2	402.8	382.8	377.5	374.9	376.2
25°	4126.5	2637.5	810.7	471.6	426.6	388.1	361.6	347.1	341.8	341.8	343.1
27.5°	3949.0	2307.6	642.5	422.6	380.2	345.7	324.5	315.3	313.9	317.9	319.2
30°	3784.8	1976.5	520.6	382.8	339.1	310.0	295.4	292.8	292.8	294.1	295.4
32.5°	3601.9	1686.4	435.8	348.4	306.0	280.8	272.9	272.9	275.5	275.5	278.2
35°	3486.6	1437.4	382.8	315.3	280.8	259.6	254.3	255.7	259.6	264.9	267.6
37.5°	3424.4	1238.6	348.4	288.8	257.0	242.5	237.2	239.8	249.0	258.4	259.6
40°	3429.7	1088.9	320.6	266.3	238.4	222.5	218.6	226.6	235.8	245.1	246.4
42.5°	3488.0	977.7	294.1	239.8	222.5	200.1	198.7	206.6	210.7	219.9	221.3
45°	3556.8	896.8	266.3	211.9	193.4	173.5	174.8	181.5	186.8	201.3	204.0
47.5°	3578.0	841.2	234.5	180.1	158.9	152.3	153.7	157.6	168.2	181.5	182.8
50°	3601.9	806.8	204.0	152.3	135.1	133.8	135.1	137.8	144.4	149.7	148.4
52.5°	3703.9	805.4	178.8	132.5	115.2	117.9	119.3	117.9	112.6	104.6	102.0
54°	3799.3	809.4	166.9	123.2	106.0	109.9	108.7	102.0	88.7	80.8	76.9
55°	3876.1	813.4	160.3	116.6	100.7	102.0	103.4	90.1	72.8	64.9	62.2
57.5°	4027.1	804.1	144.4	102.0	88.7	83.4	82.2	59.6	39.8	34.5	31.8
60°	3951.6	726.0	131.1	87.5	75.5	67.5	55.7	33.1	19.8	14.5	14.5
62.5°	3654.9	616.0	116.6	71.6	62.2	51.6	29.2	18.6	9.3	5.3	4.0
65°	3269.4	518.0	104.6	56.9	49.0	33.1	15.9	11.9	4.0	0.0	0.0
67.5°	2430.8	384.2	88.7	45.1	37.1	21.2	10.6	6.6	1.3	0.0	0.0
70°	1126.0	234.5	75.5	34.5	26.5	15.9	8.0	4.0	0.0	0.0	0.0
72.5°	323.2	147.0	62.2	25.1	18.6	13.3	6.6	2.7	1.3	0.0	0.0
75°	112.6	117.9	46.3	18.6	14.5	9.3	5.3	2.7	1.3	0.0	0.0
77.5°	67.5	95.4	29.2	15.9	11.9	8.0	5.3	2.7	1.3	1.3	0.0
80°	38.4	63.6	18.6	13.3	10.6	6.6	4.0	2.7	1.3	1.3	0.0
82.5°	21.2	30.4	14.5	11.9	9.3	6.6	4.0	2.7	1.3	1.3	1.3
85°	17.2	15.9	11.9	10.6	8.0	5.3	4.0	1.3	0.0	0.0	0.0
87.5°	13.3	10.6	10.6	10.6	8.0	5.3	4.0	1.3	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)