

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: P455462

Luminaire Tested: **GALN-SA6C-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23995 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): 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

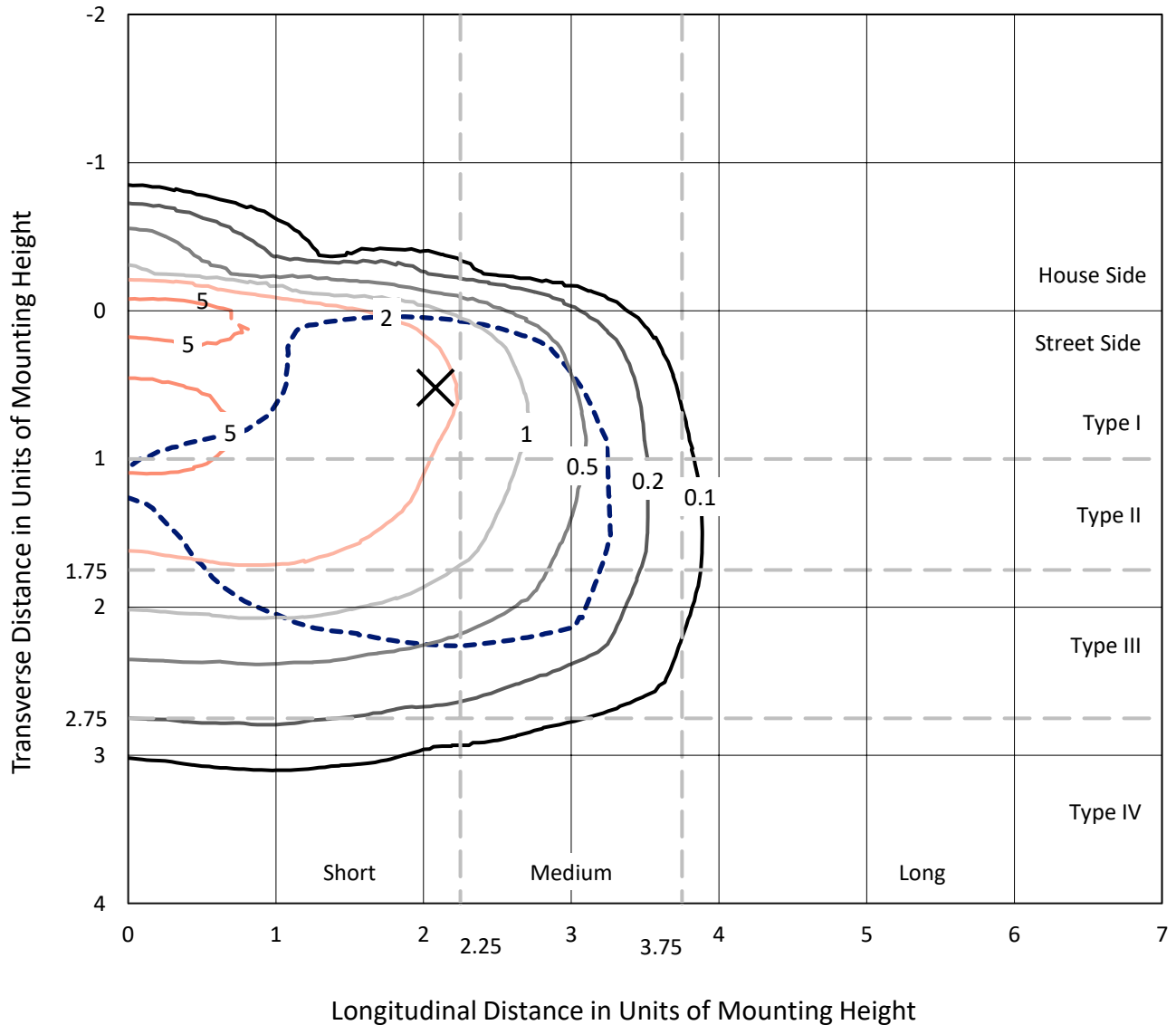




REPORT NUMBER: P455462
 CATALOG NUMBER: GALN-SA6C-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

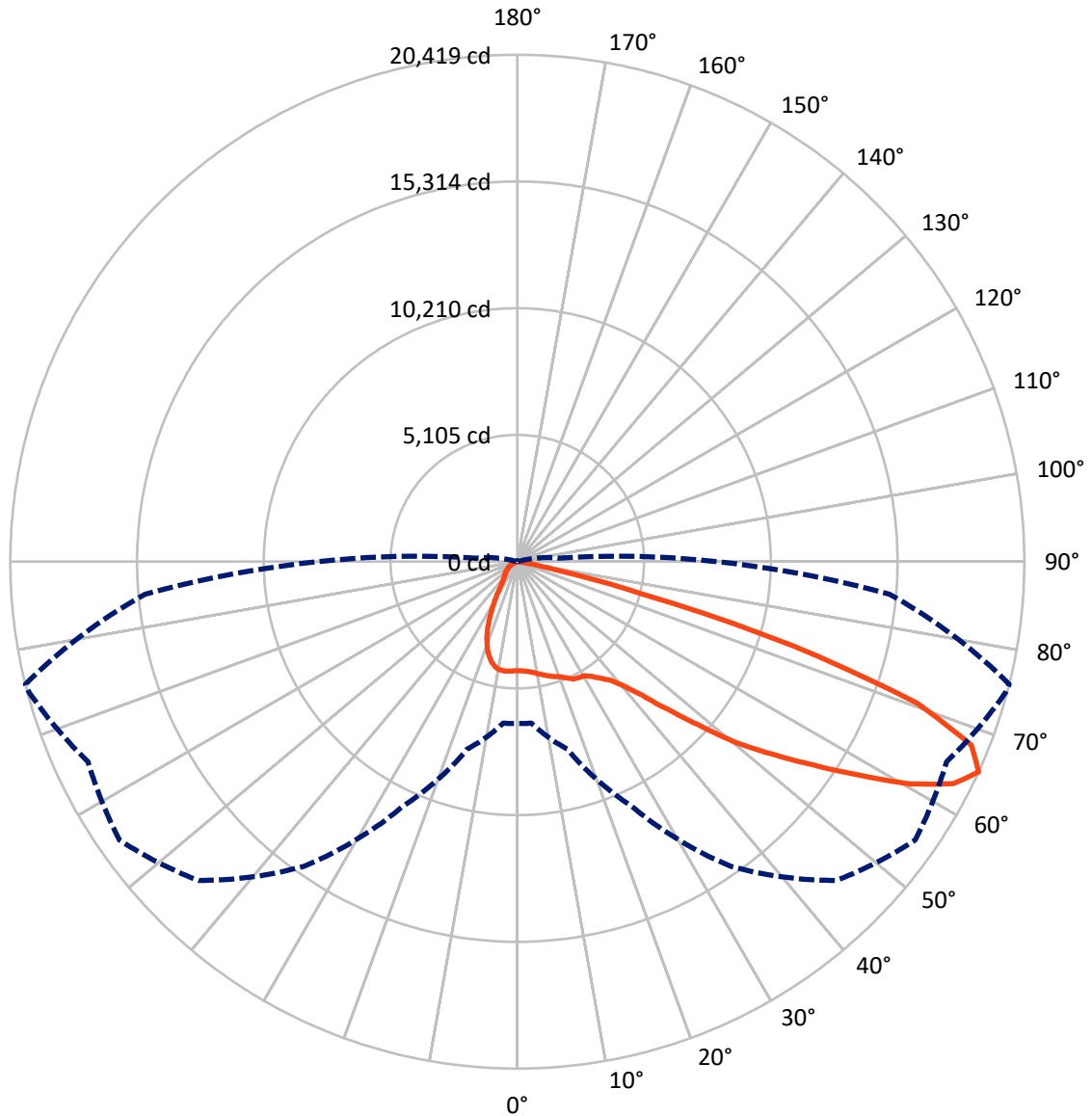
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

REPORT NUMBER: P455462
CATALOG NUMBER: GALN-SA6C-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455462
 CATALOG NUMBER: GALN-SA6C-827-U-T3R-HSS

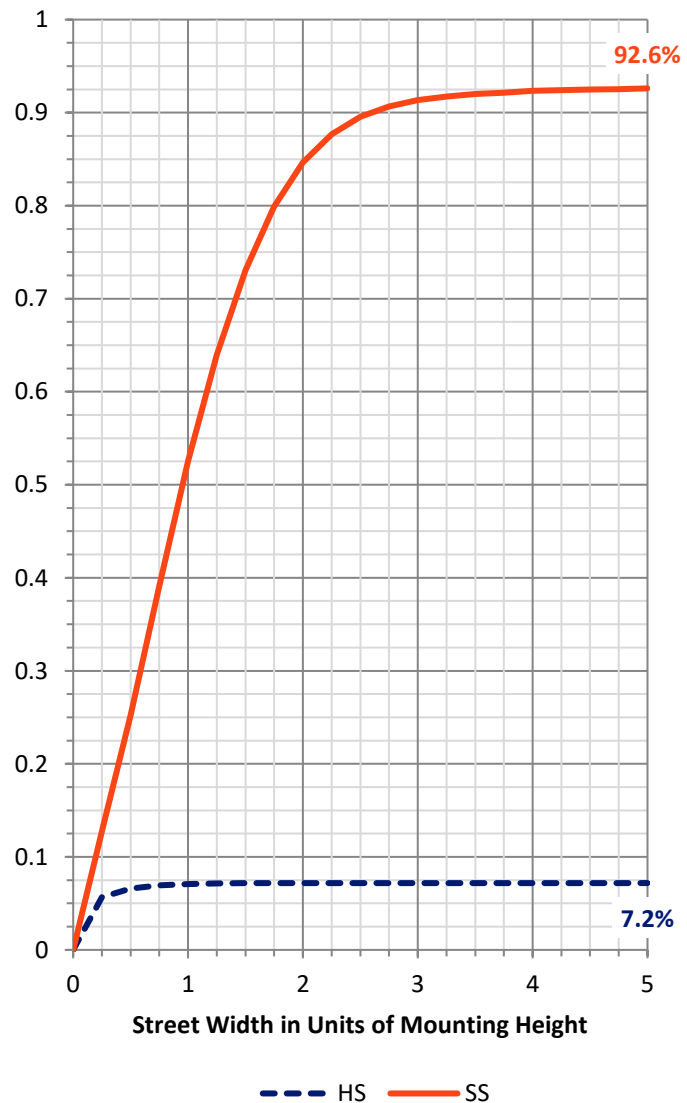
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.9	0.0	1732.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22262.1	0.0	22262.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	23995.0	0.0	23995.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.5
10°-20°	805.1	3.4
20°-30°	1297.4	5.4
30°-40°	2255.8	9.4
40°-50°	3727.5	15.5
50°-60°	5758.3	24.0
60°-70°	7031.7	29.3
70°-80°	2668.7	11.1
80°-90°	89.1	0.4
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°	23995.0	100.0
0°-180°	23995.0	100.0



REPORT NUMBER: P455462

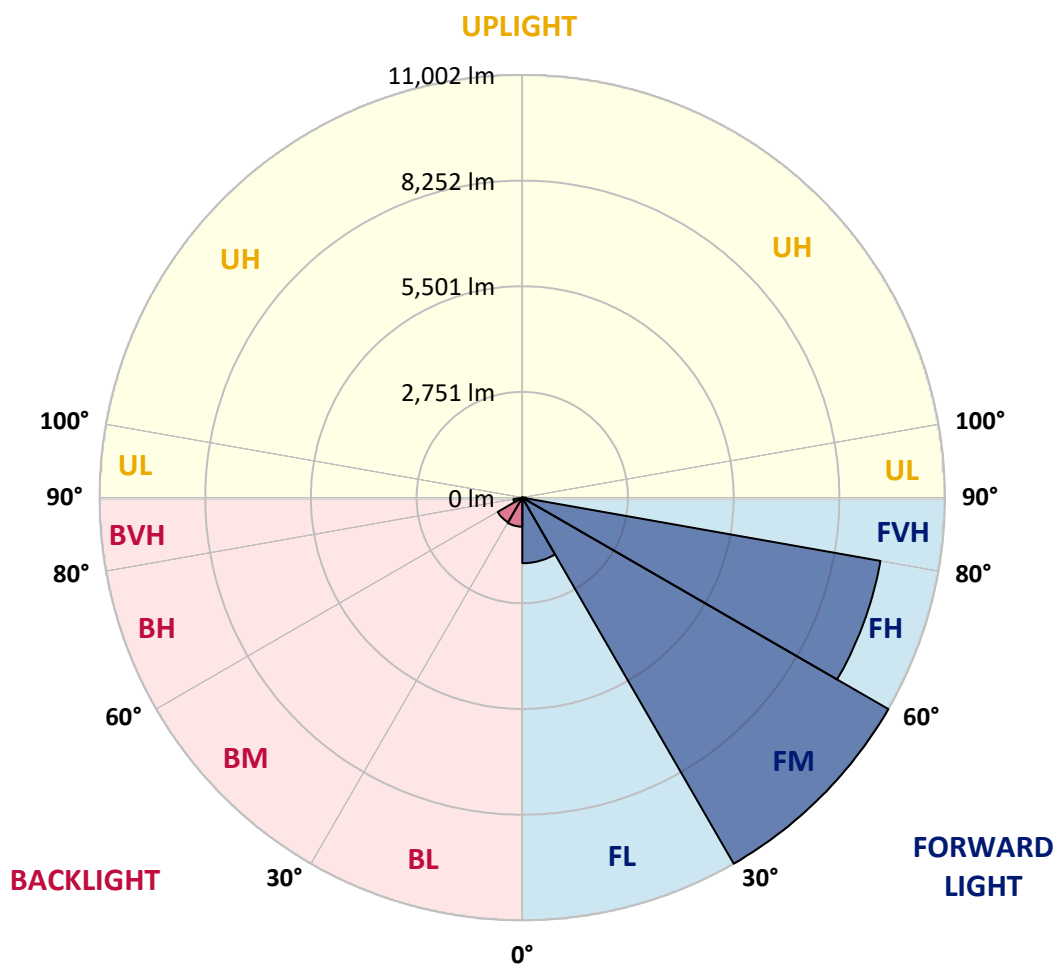
CATALOG NUMBER: GALN-SA6C-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.0	7.1			
FM (30°-60°)	11002.1	45.9			
FH (60°-80°)	9465.2	39.4			G4/12000
FVH (80°-90°)	87.8	0.4			G1/100
BL (0°-30°)	757.1	3.2	B2/1000		
BM (30°-60°)	739.5	3.1	B1/1000		
BH (60°-80°)	235.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P455462

CATALOG NUMBER: GALN-SA6C-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5
2.5°	4194.6	4196.3	4206.5	4231.9	4270.9	4303.1	4330.2	4374.2	4404.7	4408.1	4418.3
5°	3904.9	3884.6	3904.9	3971.0	4030.3	4120.1	4230.2	4340.3	4438.6	4445.4	4492.8
7.5°	3579.7	3596.6	3628.8	3696.6	3808.4	3945.6	4104.8	4301.4	4487.7	4504.7	4597.8
10°	3249.3	3286.6	3339.1	3442.4	3598.3	3776.2	3993.0	4274.3	4565.6	4589.4	4750.3
12.5°	2944.4	2961.3	3025.7	3164.6	3357.7	3608.5	3908.3	4259.0	4652.0	4680.8	4912.9
15°	2710.6	2732.6	2788.5	2913.9	3129.0	3450.9	3838.9	4253.9	4736.7	4777.4	5075.6
17.5°	2666.5	2680.1	2703.8	2788.5	2976.6	3325.5	3776.2	4252.2	4818.1	4867.2	5226.3
20°	2847.8	2835.9	2812.2	2803.8	2907.1	3229.0	3730.4	4265.8	4896.0	4951.9	5385.6
22.5°	3301.8	3317.1	3178.2	3013.8	2979.9	3213.7	3723.7	4330.2	5019.7	5085.7	5563.5
25°	4265.8	4148.9	3932.0	3539.0	3242.5	3306.9	3799.9	4482.6	5163.7	5236.5	5724.4
27.5°	5331.4	5295.8	4958.7	4311.5	3759.2	3503.4	3935.4	4599.5	5211.1	5285.6	5815.9
30°	6378.3	6420.7	6034.4	5319.5	4509.7	3867.7	4062.5	4643.6	5253.4	5331.4	5932.8
32.5°	7349.1	7399.9	7061.1	6352.9	5394.1	4497.9	4281.0	4814.7	5431.3	5511.0	6127.6
35°	8113.1	8119.9	7864.1	7299.9	6359.7	5263.6	4753.7	5114.5	5671.9	5765.1	6334.3
37.5°	8814.5	8804.3	8504.5	8018.2	7164.4	6024.3	5348.3	5460.1	5946.3	6042.9	6632.5
40°	9334.6	9341.3	9244.8	8787.4	7914.9	6727.3	5819.3	5783.7	6407.1	6557.9	7066.2
42.5°	9681.9	9744.5	9792.0	9559.9	8858.5	7593.0	6542.7	6476.6	7206.8	7332.1	7679.4
45°	9963.1	10074.9	10312.1	10300.2	9764.9	8655.2	7535.4	7399.9	8340.1	8474.0	8460.4
47.5°	10168.1	10281.6	10674.6	10911.8	10617.0	9685.3	8784.0	8667.1	9693.7	9839.4	9322.7
50°	10273.1	10408.6	10910.1	11369.2	11282.8	10678.0	10207.0	10213.8	11328.5	11469.2	10322.2
52.5°	10027.5	10203.7	11035.5	11862.2	12029.9	11628.4	11540.3	11763.9	12783.8	12904.1	11225.2
55°	9243.1	9465.0	10864.4	12282.3	12895.6	12749.9	13054.8	13395.4	14374.6	14452.5	12151.9
57.5°	8746.7	8982.2	10359.5	12639.8	13935.8	14159.4	14642.2	14891.3	16016.2	16214.4	13215.8
60°	8328.3	8512.9	9944.5	12716.0	14992.9	15884.0	16353.3	16610.8	18042.3	18171.1	14386.4
62.5°	7632.0	7843.8	9243.1	12184.1	15524.9	17264.7	18237.1	18121.9	19609.4	19699.2	15104.7
65°	6512.2	6530.8	7820.0	10847.4	14976.0	18160.9	19560.2	19077.4	20358.2	20419.2	15048.8
67.5°	4860.4	5040.0	6015.8	8526.5	12650.0	17395.2	19988.9	19102.8	19885.5	19716.1	13854.5
70°	3130.7	3267.9	4077.7	5912.5	9121.1	14516.9	18567.5	17793.3	17452.8	17076.7	11340.4
72.5°	1445.1	1621.3	2422.6	3378.1	5409.3	10340.9	15072.5	14455.9	12561.9	11633.5	7208.5
75°	630.2	674.3	1196.0	1782.2	2536.1	5468.6	9937.7	8973.7	5673.6	5182.3	2885.1
77.5°	384.6	413.4	626.8	955.5	996.1	2083.8	5353.4	3915.1	1753.4	1546.7	782.7
80°	260.9	293.1	455.7	499.8	340.5	581.1	2009.2	1045.3	354.1	338.8	167.7
82.5°	127.1	160.9	337.1	279.5	147.4	186.4	584.5	223.6	103.3	96.6	59.3
85°	18.6	32.2	189.7	183.0	66.1	44.0	103.3	55.9	35.6	33.9	27.1
87.5°	0.0	0.0	64.4	28.8	6.8	6.8	11.9	11.9	13.6	11.9	13.6
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: P455462

CATALOG NUMBER: GALN-SA6C-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5
2.5°	4423.3	4431.8	4399.6	4353.9	4304.7	4255.6	4186.2	4123.5	4086.2	4108.2	4054.0
5°	4503.0	4496.2	4411.5	4272.6	4087.9	3866.0	3645.7	3457.7	3396.7	3305.2	3295.1
7.5°	4613.1	4594.4	4414.9	4096.4	3679.6	3262.9	2856.3	2586.9	2432.7	2302.3	2305.7
10°	4767.2	4713.0	4375.9	3786.3	3100.2	2471.7	1953.3	1597.6	1443.4	1394.3	1355.3
12.5°	4926.5	4821.5	4267.5	3367.9	2414.1	1689.0	1187.6	970.7	875.9	845.4	842.0
15°	5068.8	4902.8	4077.7	2864.7	1755.1	1079.2	809.8	738.6	726.8	728.5	726.8
17.5°	5209.4	4967.1	3815.1	2331.1	1192.7	774.2	696.3	679.3	684.4	691.2	689.5
20°	5326.3	4980.7	3479.7	1778.8	843.7	679.3	653.9	650.5	655.6	660.7	660.7
22.5°	5453.4	4990.9	3081.6	1231.6	689.5	631.9	618.4	618.4	625.1	631.9	633.6
25°	5548.2	4935.0	2605.5	884.3	608.2	586.2	579.4	581.1	587.9	591.2	589.6
27.5°	5563.5	4777.4	2100.7	677.6	552.3	530.3	523.5	530.3	521.8	526.9	523.5
30°	5577.0	4577.5	1589.1	570.9	501.5	467.6	457.4	447.2	440.5	432.0	430.3
32.5°	5619.4	4342.0	1160.5	513.3	454.0	416.8	393.0	364.2	342.2	335.4	333.7
35°	5638.0	4059.1	852.1	467.6	411.7	371.0	328.7	288.0	255.8	244.0	252.4
37.5°	5709.2	3784.7	660.7	433.7	374.4	323.6	269.4	218.5	188.0	181.3	184.7
40°	5854.9	3486.5	554.0	404.9	342.2	279.5	213.5	164.3	144.0	137.2	135.5
42.5°	6088.6	3190.0	493.0	377.8	310.0	235.5	167.7	128.8	111.8	106.7	106.7
45°	6373.3	2905.4	450.6	349.0	276.1	189.7	132.1	103.3	93.2	89.8	89.8
47.5°	6747.7	2656.4	415.1	320.2	238.9	150.8	106.7	89.8	83.0	84.7	86.4
50°	7127.1	2471.7	376.1	288.0	196.5	123.7	91.5	79.6	77.9	79.6	79.6
52.5°	7413.4	2363.3	323.6	244.0	154.2	103.3	81.3	74.5	72.8	69.5	69.5
55°	7799.7	2339.6	257.5	198.2	122.0	86.4	72.8	67.8	62.7	59.3	57.6
57.5°	8296.1	2366.7	198.2	154.2	94.9	71.2	64.4	55.9	49.1	42.4	42.4
60°	8604.4	2305.7	154.2	118.6	69.5	57.6	49.1	40.7	32.2	27.1	25.4
62.5°	8506.2	2048.2	122.0	88.1	49.1	42.4	32.2	27.1	18.6	13.6	11.9
65°	7999.6	1653.5	98.3	61.0	35.6	25.4	16.9	16.9	8.5	1.7	0.0
67.5°	7001.8	1224.8	77.9	40.7	20.3	11.9	8.5	5.1	0.0	0.0	0.0
70°	5699.0	884.3	61.0	25.4	11.9	8.5	3.4	1.7	0.0	0.0	0.0
72.5°	3618.6	506.5	47.4	15.2	8.5	3.4	0.0	0.0	0.0	0.0	0.0
75°	1399.3	198.2	32.2	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	396.4	93.2	18.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	103.3	40.7	10.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	16.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.8	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	1.7	0.0	0.0	0.0	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)