

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: P651418

Luminaire Tested: **GALN-SA5D-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26085.3 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

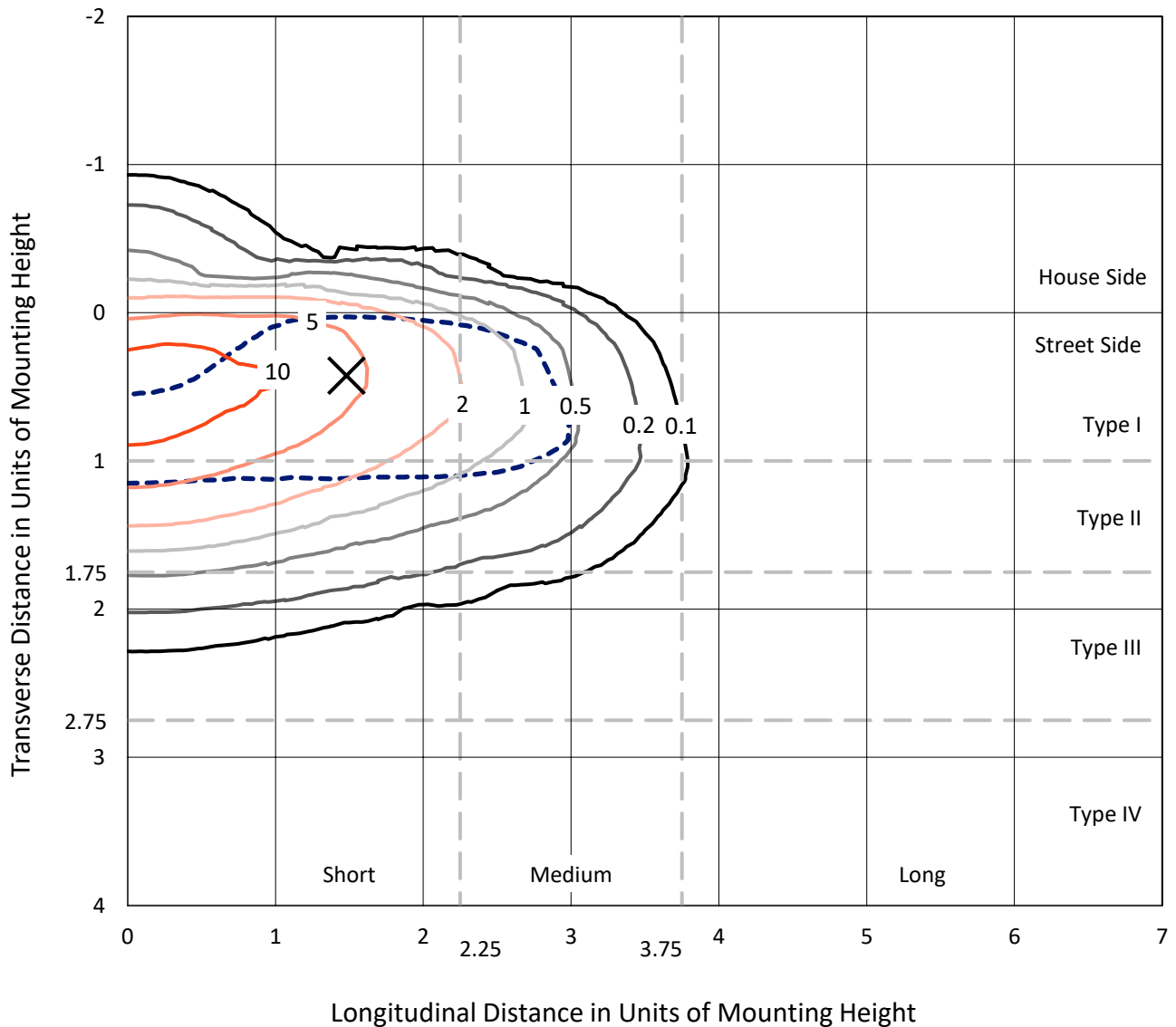
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651418
 CATALOG NUMBER: GALN-SA5D-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

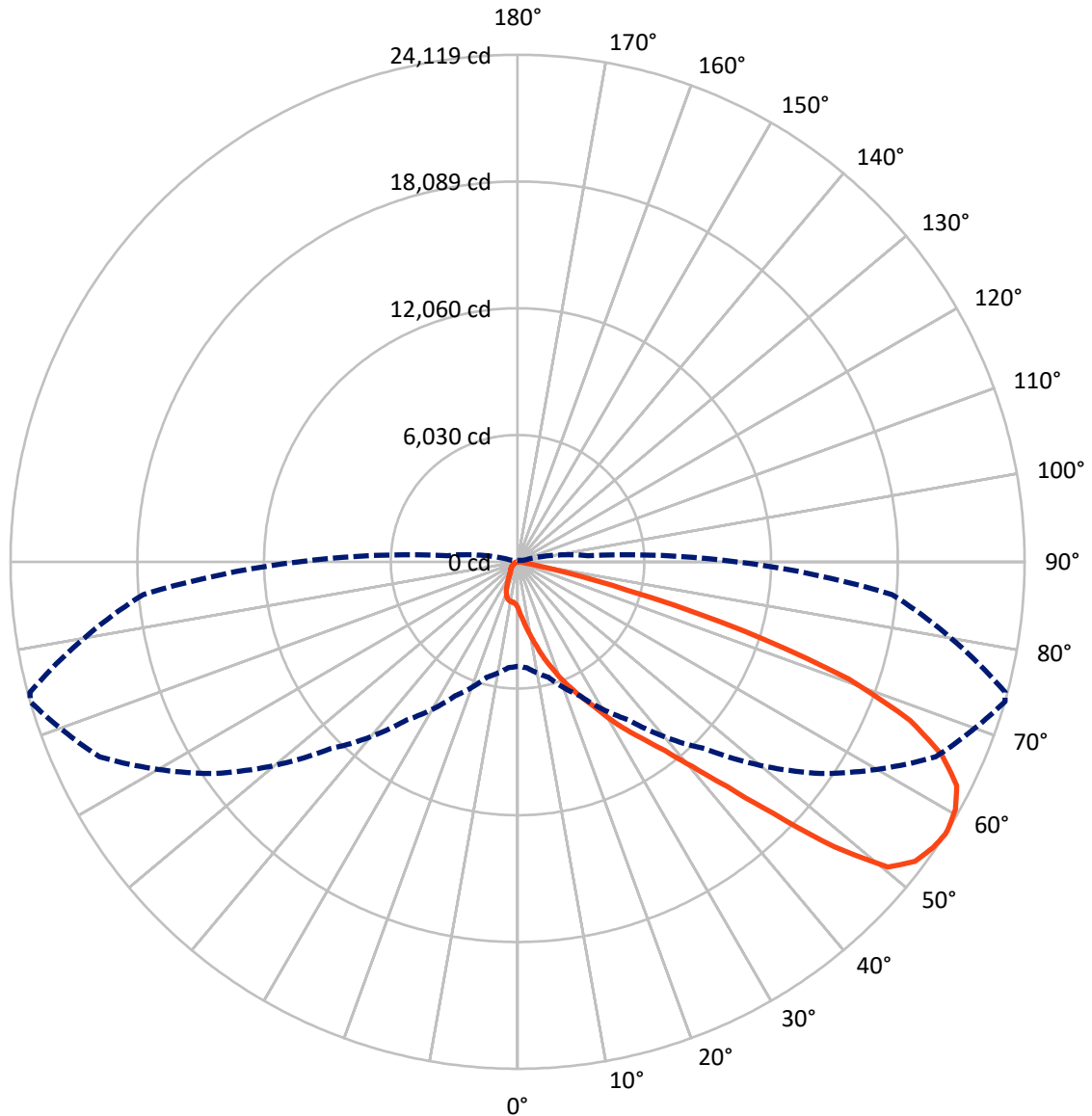
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

REPORT NUMBER: P651418
CATALOG NUMBER: GALN-SA5D-840-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P651418
 CATALOG NUMBER: GALN-SA5D-840-U-T2R-HSS

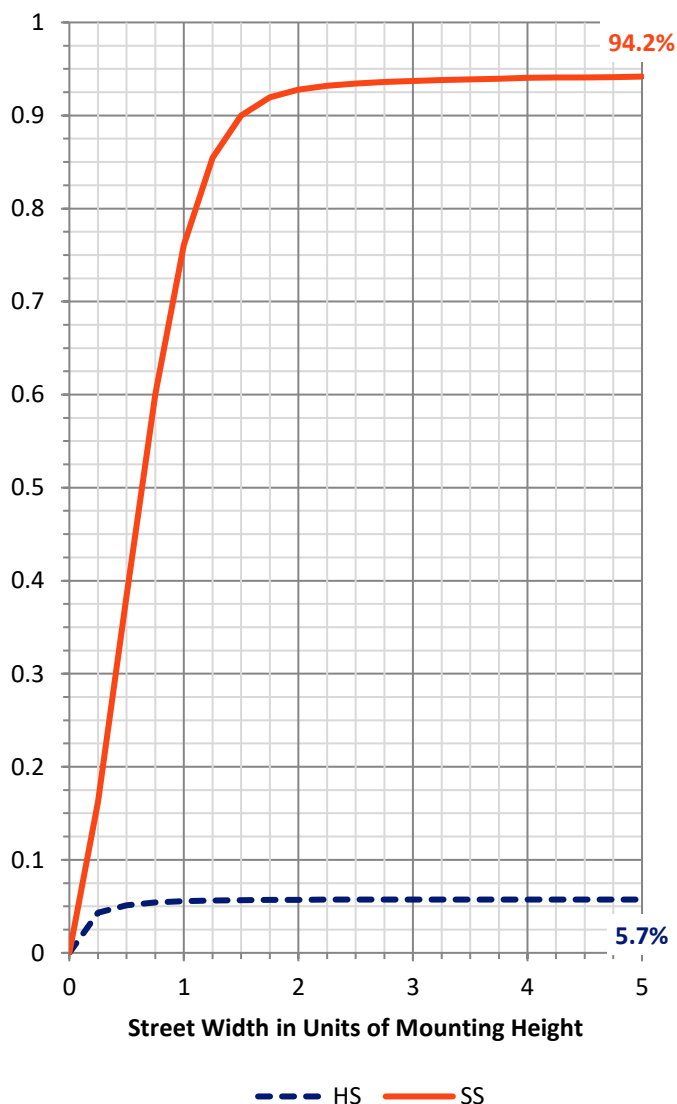
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1504.5	0.0	1504.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	24580.8	0.0	24580.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	26085.3	0.0	26085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	1.0
10°-20°	1039.4	4.0
20°-30°	2224.0	8.5
30°-40°	4087.6	15.7
40°-50°	6266.4	24.0
50°-60°	6629.0	25.4
60°-70°	4328.9	16.6
70°-80°	1182.8	4.5
80°-90°	63.7	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°	26085.3	100.0
0°-180°	26085.3	100.0

Coefficient of Utilization



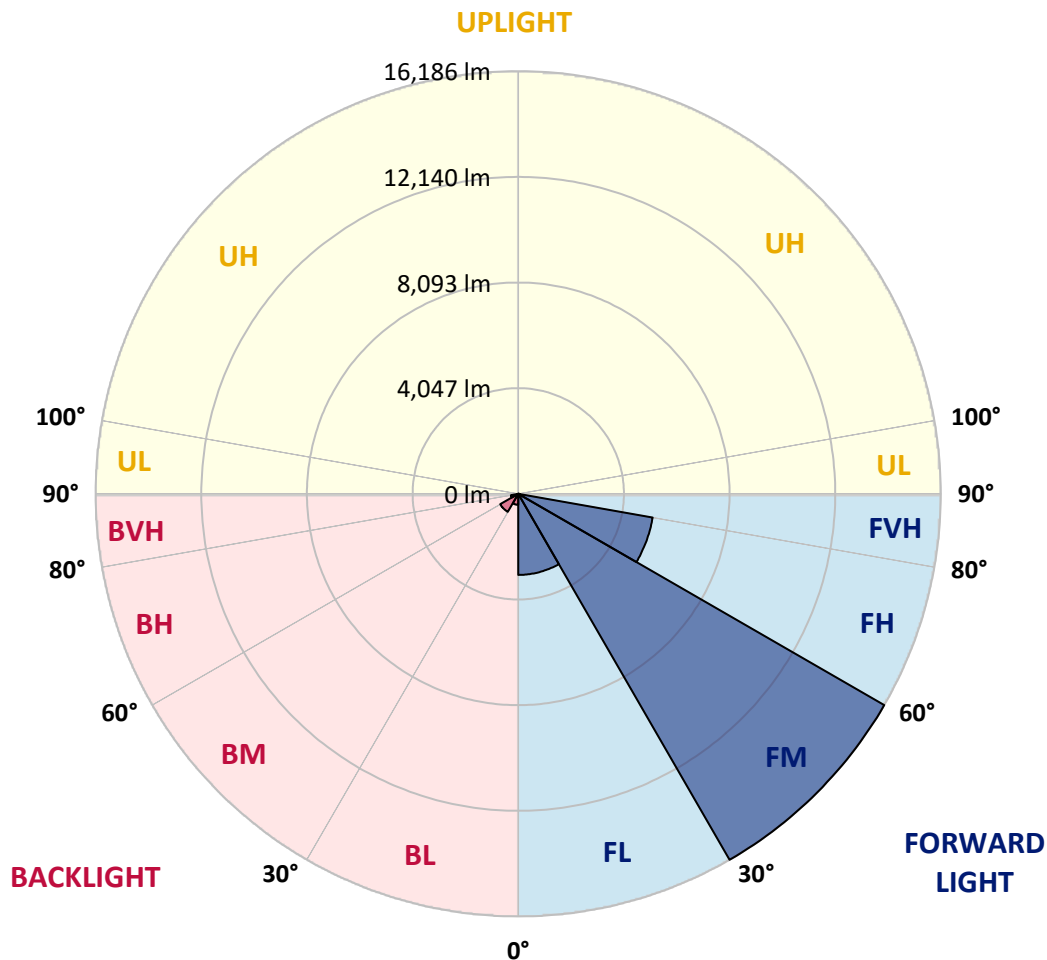
REPORT NUMBER: P651418
 CATALOG NUMBER: GALN-SA5D-840-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3106.7	11.9			
FM (30°-60°)	16186.4	62.1			
FH (60°-80°)	5229.2	20.0			G3/7500
FVH (80°-90°)	58.4	0.2			G1/100
BL (0°-30°)	420.3	1.6	B1/500		
BM (30°-60°)	796.5	3.1	B1/1000		
BH (60°-80°)	282.5	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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-G3

Type II Short





REPORT NUMBER: P651418

CATALOG NUMBER: GALN-SA5D-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6
2.5°	3196.8	3168.0	3110.4	3090.5	3005.9	2874.4	2759.2	2604.2	2481.8	2469.2	2321.5
5°	4280.9	4216.1	4189.1	4059.4	3855.9	3665.0	3337.3	3088.7	2802.4	2780.8	2483.6
7.5°	5325.5	5235.5	5208.5	5086.0	4848.3	4547.5	4122.5	3670.5	3216.6	3175.2	2701.5
10°	6081.9	6094.6	6045.9	5964.9	5772.2	5466.0	4942.0	4324.2	3677.6	3625.4	2946.4
12.5°	6624.1	6622.3	6631.3	6629.4	6526.8	6294.5	5743.4	5032.0	4185.5	4082.9	3227.4
15°	6977.1	6982.5	7009.5	7103.2	7113.9	6969.9	6510.6	5709.1	4774.4	4646.6	3531.8
17.5°	7333.7	7371.4	7414.7	7503.0	7582.2	7524.6	7200.4	6415.1	5307.6	5212.1	3857.8
20°	7922.6	7974.8	7949.6	8003.6	8045.1	8050.5	7800.1	7067.1	5954.1	5793.8	4230.6
22.5°	8864.5	8862.7	8797.9	8700.6	8619.6	8616.0	8389.1	7737.1	6541.2	6386.3	4605.1
25°	10055.0	10060.4	9934.3	9657.0	9455.2	9208.5	8947.3	8324.2	7169.8	6978.9	4999.6
27.5°	11420.1	11385.9	11195.0	10813.2	10413.3	9991.9	9615.5	9006.8	7836.1	7677.7	5451.6
30°	12646.6	12634.0	12410.6	11944.2	11418.3	10995.1	10449.4	9862.2	8698.8	8504.3	5957.7
32.5°	13788.4	13806.4	13496.7	13014.0	12506.1	12018.1	11441.7	10679.9	9545.3	9269.8	6508.8
35°	14679.9	14697.9	14377.4	13975.7	13453.5	13048.2	12498.9	11551.6	10381.0	10148.6	7142.8
37.5°	15155.4	15178.8	14993.3	14690.8	14364.8	14161.3	13649.8	12673.6	11396.7	11256.2	7891.9
40°	15245.5	15272.5	15191.4	15110.3	15092.3	15238.2	15088.7	13995.6	12805.1	12585.4	9008.6
42.5°	14975.3	15011.3	15047.3	15227.4	15594.8	16129.7	16650.2	15789.4	14618.7	14323.3	10373.7
45°	14265.7	14262.1	14404.4	14870.8	15693.9	16835.7	18281.9	18035.2	17089.6	16738.5	12302.7
47.5°	13051.8	13033.8	13341.8	14006.4	15288.7	16965.4	19612.9	20761.9	20243.2	19919.0	14375.5
50°	11202.2	11290.4	11774.9	12702.5	14281.9	16572.7	20023.5	22550.3	22831.2	22487.2	16050.5
52.5°	9035.6	9032.0	9792.0	11050.9	12790.7	15708.3	19737.1	22874.4	23672.3	23409.4	16875.3
55°	6687.1	6733.9	7524.6	8794.3	10854.6	14130.7	18802.4	22541.3	23992.9	23807.4	17419.2
57°	4974.3	5057.2	5691.1	7034.7	9168.9	12569.2	17557.9	21945.1	24119.0	24018.1	17871.3
57.5°	4643.0	4646.6	5264.3	6485.4	8675.4	11969.4	17201.3	21696.6	24115.3	24059.5	17945.2
60°	2858.2	2948.2	3375.1	4383.6	6350.3	9341.7	14811.4	20268.4	23928.0	24009.1	18260.3
62.5°	1710.9	1748.8	2026.1	2642.1	4093.7	6818.6	12120.7	18440.4	23440.0	23686.7	18238.7
65°	1100.4	1109.4	1235.5	1599.2	2559.2	4608.8	9340.0	16025.3	22177.5	22631.3	17525.5
67.5°	850.1	864.5	914.9	1050.0	1484.0	2870.8	6606.1	13448.0	20135.1	20720.5	15796.6
70°	754.6	761.9	779.9	823.1	981.5	1620.9	4109.9	10505.2	16697.0	16862.7	12362.0
72.5°	615.9	635.7	691.6	706.0	778.0	1012.1	2287.3	7050.9	11218.4	11259.8	6915.8
75°	477.3	480.9	563.7	605.1	655.6	697.0	1021.1	3555.2	5388.6	5100.4	2665.5
77.5°	356.6	372.8	410.7	462.9	534.9	498.9	457.4	1340.0	1673.1	1642.5	774.4
80°	228.8	237.8	286.4	347.6	416.0	326.0	257.5	392.6	367.4	378.2	185.5
82.5°	115.3	117.1	183.7	282.7	264.7	163.9	162.1	160.3	136.9	135.1	86.5
85°	12.6	27.0	118.8	162.1	118.8	54.0	75.6	73.8	72.1	73.8	50.5
87.5°	1.8	1.8	19.8	23.4	16.2	18.0	21.6	23.4	28.8	27.0	21.6
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: P651418

CATALOG NUMBER: GALN-SA5D-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6
2.5°	2249.4	2177.4	2044.1	1916.3	1820.8	1759.5	1680.3	1651.6	1610.1	1604.7	1584.9
5°	2346.7	2209.8	1977.5	1793.8	1646.1	1534.5	1437.2	1356.1	1291.4	1276.9	1284.1
7.5°	2485.4	2281.9	1957.7	1707.3	1502.0	1311.1	1156.2	1060.8	992.4	967.2	970.8
10°	2642.1	2377.3	1954.1	1615.5	1302.1	1068.0	898.7	814.1	774.4	760.0	743.8
12.5°	2827.5	2487.2	1945.1	1473.2	1082.4	851.8	731.2	680.8	642.9	632.2	632.2
15°	3036.5	2604.2	1901.8	1296.7	878.8	704.2	623.2	583.5	571.0	560.1	560.1
17.5°	3254.4	2719.5	1811.8	1078.8	729.4	603.3	552.9	529.5	511.5	498.9	498.9
20°	3502.9	2833.0	1667.7	886.1	615.9	538.5	498.9	471.9	457.4	446.7	443.0
22.5°	3738.8	2924.8	1484.0	727.6	536.7	484.5	448.4	419.7	405.2	399.8	399.8
25°	3983.8	2980.7	1262.5	601.6	489.9	439.4	399.8	376.4	363.8	360.2	358.4
27.5°	4221.6	3013.1	1068.0	525.9	446.7	398.0	360.2	342.2	329.6	326.0	327.8
30°	4509.7	3018.4	878.8	471.9	408.8	358.4	324.2	308.0	300.7	297.1	295.4
32.5°	4801.4	3011.3	738.4	439.4	372.8	324.2	295.4	282.7	277.4	272.0	272.0
35°	5129.3	2973.4	628.6	407.0	338.6	295.4	270.1	259.4	252.1	246.7	244.9
37.5°	5536.3	2953.7	565.5	371.0	308.0	268.4	244.9	234.1	228.8	221.5	219.8
40°	6177.4	3041.9	545.7	338.6	277.4	243.1	221.5	208.9	201.7	194.5	192.7
42.5°	6977.1	3196.8	513.3	306.2	250.4	219.8	198.1	183.7	171.1	162.1	158.5
45°	8012.6	3400.2	462.9	272.0	226.9	194.5	174.7	156.7	140.4	133.3	131.4
47.5°	9098.6	3596.6	417.8	244.9	201.7	172.9	151.3	131.4	117.1	111.7	109.8
50°	9765.0	3636.2	389.0	214.3	176.5	149.4	127.8	109.8	100.8	95.5	95.5
52.5°	10069.4	3573.2	349.4	187.3	153.1	131.4	109.8	95.5	90.1	86.5	84.7
55°	10281.9	3475.9	297.1	162.1	131.4	111.7	97.2	86.5	79.2	75.6	73.8
57°	10406.2	3344.5	257.5	142.3	113.5	97.2	86.5	77.5	70.2	63.1	63.1
57.5°	10411.6	3294.0	246.7	140.4	108.1	93.7	84.7	75.6	66.6	59.5	57.6
60°	10251.3	2948.2	198.1	118.8	86.5	79.2	70.2	59.5	46.8	39.6	37.8
62.5°	9736.2	2508.8	163.9	100.8	70.2	61.2	50.5	45.0	32.4	23.4	23.4
65°	8956.4	2035.1	140.4	81.1	57.6	45.0	34.2	32.4	19.8	10.8	9.0
67.5°	7829.0	1584.9	118.8	66.6	48.6	32.4	23.4	21.6	10.8	3.6	0.0
70°	5964.9	1080.6	99.1	54.0	36.0	23.4	16.2	12.6	7.2	1.8	0.0
72.5°	3438.1	594.3	82.8	41.5	27.0	18.0	12.6	7.2	7.2	0.0	0.0
75°	1228.3	255.7	63.1	30.6	21.6	14.4	9.0	3.6	5.4	1.8	0.0
77.5°	390.8	136.9	41.5	23.4	18.0	10.8	7.2	3.6	3.6	1.8	0.0
80°	115.3	72.1	25.2	19.8	12.6	9.0	5.4	1.8	3.6	1.8	0.0
82.5°	63.1	36.0	19.8	14.4	12.6	7.2	5.4	1.8	1.8	1.8	0.0
85°	32.4	21.6	16.2	14.4	12.6	7.2	5.4	1.8	0.0	1.8	1.8
87.5°	18.0	16.2	16.2	14.4	12.6	9.0	5.4	1.8	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)