

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: P651858

Luminaire Tested: **GALN-SA4A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651858
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-SA4A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA 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: 12181 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

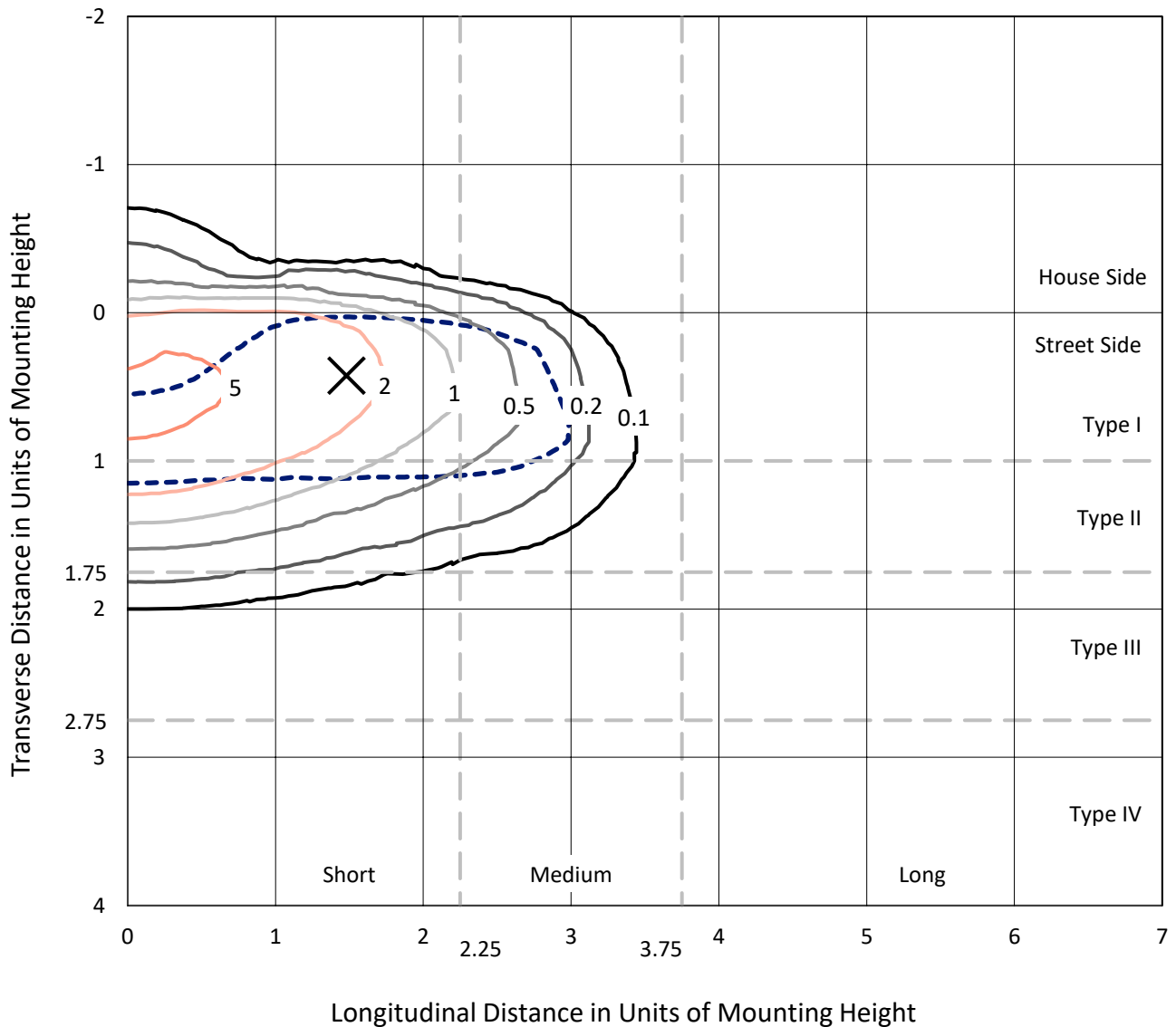
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651858
 CATALOG NUMBER: GALN-SA4A-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

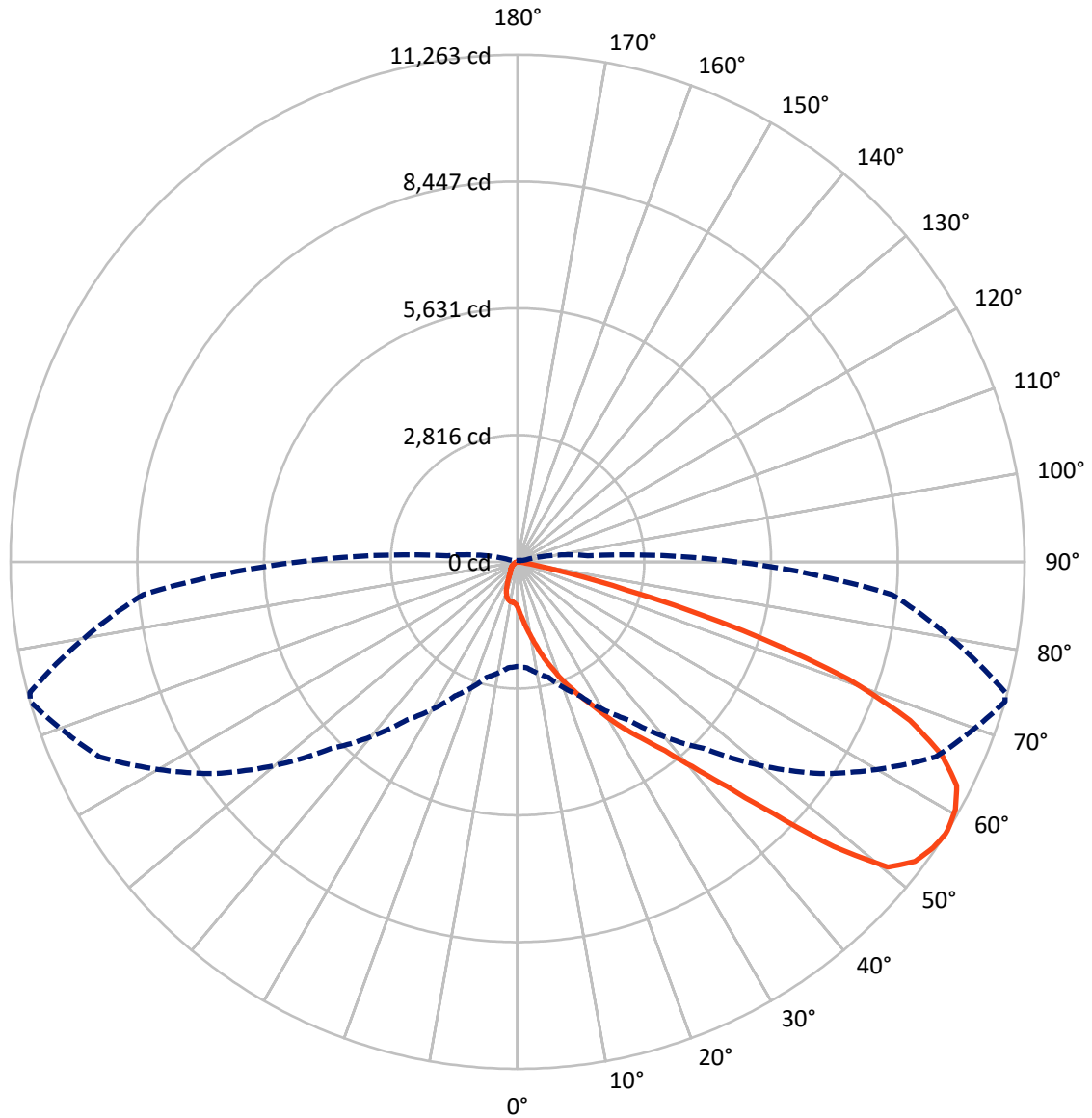
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P651858
CATALOG NUMBER: GALN-SA4A-840-U-T2R-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA4A-840-U-T2R-HSS

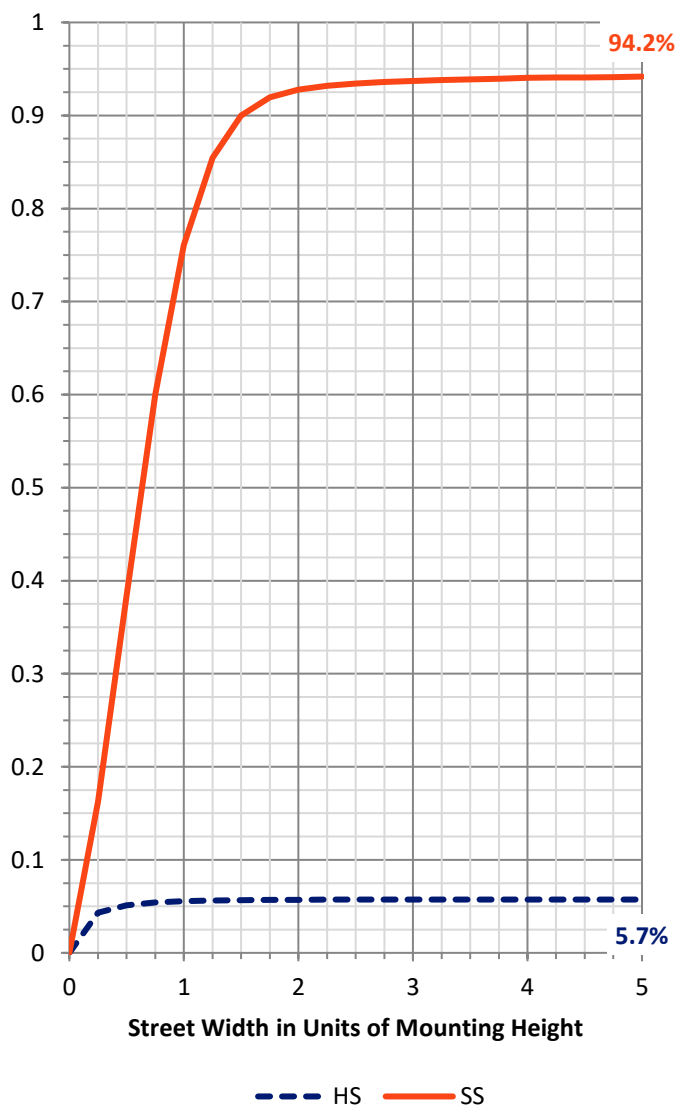
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.5	0.0	702.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	11478.5	0.0	11478.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	12181.0	0.0	12181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	1.0
10°-20°	485.3	4.0
20°-30°	1038.5	8.5
30°-40°	1908.8	15.7
40°-50°	2926.2	24.0
50°-60°	3095.5	25.4
60°-70°	2021.5	16.6
70°-80°	552.3	4.5
80°-90°	29.7	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°	12181.0	100.0
0°-180°	12181.0	100.0

Coefficient of Utilization

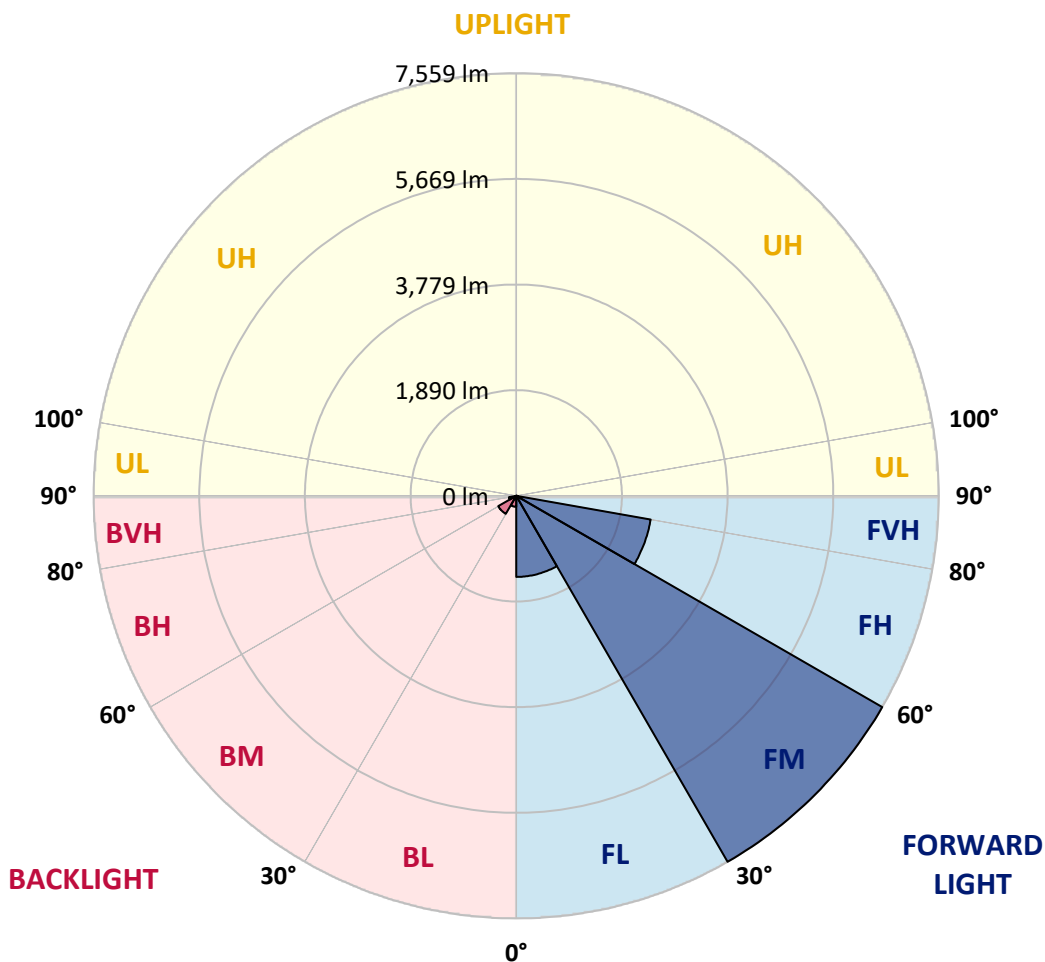


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.7	11.9			
FM (30°-60°)	7558.6	62.1			
FH (60°-80°)	2441.9	20.0			G2/5000
FVH (80°-90°)	27.3	0.2			G1/100
BL (0°-30°)	196.2	1.6	B1/500		
BM (30°-60°)	372.0	3.1	B1/1000		
BH (60°-80°)	131.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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: P651858

CATALOG NUMBER: GALN-SA4A-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1
2.5°	1492.8	1479.3	1452.4	1443.2	1403.6	1342.2	1288.4	1216.1	1158.9	1153.0	1084.0
5°	1999.1	1968.8	1956.2	1895.6	1800.6	1711.4	1558.4	1442.3	1308.6	1298.5	1159.7
7.5°	2486.8	2444.8	2432.2	2375.0	2264.0	2123.5	1925.0	1714.0	1502.0	1482.7	1261.5
10°	2840.1	2845.9	2823.2	2785.4	2695.4	2552.4	2307.7	2019.2	1717.3	1692.9	1375.9
12.5°	3093.2	3092.4	3096.6	3095.7	3047.8	2939.3	2681.9	2349.8	1954.5	1906.5	1507.1
15°	3258.1	3260.6	3273.3	3317.0	3322.0	3254.8	3040.2	2666.0	2229.5	2169.8	1649.2
17.5°	3424.6	3442.3	3462.5	3503.7	3540.7	3513.8	3362.4	2995.6	2478.4	2433.9	1801.4
20°	3699.6	3724.0	3712.3	3737.5	3756.8	3759.4	3642.5	3300.2	2780.3	2705.5	1975.5
22.5°	4139.5	4138.6	4108.4	4063.0	4025.1	4023.4	3917.5	3613.0	3054.5	2982.2	2150.4
25°	4695.4	4697.9	4639.0	4509.5	4415.3	4300.1	4178.2	3887.2	3348.1	3259.0	2334.6
27.5°	5332.9	5316.9	5227.7	5049.4	4862.7	4666.0	4490.2	4205.9	3659.3	3585.3	2545.7
30°	5905.6	5899.7	5795.4	5577.6	5332.0	5134.4	4879.6	4605.4	4062.1	3971.3	2782.0
32.5°	6438.8	6447.2	6302.5	6077.2	5840.0	5612.1	5343.0	4987.2	4457.4	4328.7	3039.4
35°	6855.1	6863.5	6713.8	6526.2	6282.4	6093.1	5836.6	5394.3	4847.6	4739.1	3335.5
37.5°	7077.1	7088.0	7001.4	6860.1	6707.9	6612.9	6374.0	5918.2	5321.9	5256.3	3685.3
40°	7119.1	7131.8	7093.9	7056.1	7047.7	7115.8	7046.0	6535.5	5979.6	5877.0	4206.8
42.5°	6993.0	7009.8	7026.6	7110.7	7282.3	7532.1	7775.1	7373.1	6826.5	6688.6	4844.2
45°	6661.6	6660.0	6726.4	6944.2	7328.6	7861.8	8537.1	8421.9	7980.3	7816.3	5745.0
47.5°	6094.8	6086.4	6230.2	6540.5	7139.3	7922.3	9158.6	9695.2	9452.9	9301.5	6712.9
50°	5231.1	5272.3	5498.5	5931.7	6669.2	7739.0	9350.3	10530.3	10661.5	10500.9	7495.1
52.5°	4219.4	4217.7	4572.6	5160.5	5972.9	7335.3	9216.6	10681.7	11054.3	10931.5	7880.3
55°	3122.6	3144.5	3513.8	4106.7	5068.8	6598.6	8780.1	10526.1	11204.0	11117.3	8134.2
57°	2322.8	2361.5	2657.6	3285.0	4281.6	5869.4	8199.0	10247.8	11262.8	11215.7	8345.3
57.5°	2168.1	2169.8	2458.2	3028.4	4051.2	5589.4	8032.5	10131.7	11261.2	11235.1	8379.8
60°	1334.7	1376.7	1576.0	2047.0	2965.4	4362.4	6916.5	9464.7	11173.7	11211.5	8527.0
62.5°	798.9	816.6	946.1	1233.7	1911.6	3184.1	5660.0	8611.1	10945.8	11061.0	8516.9
65°	513.9	518.1	576.9	746.8	1195.1	2152.1	4361.5	7483.3	10356.2	10568.2	8183.9
67.5°	397.0	403.7	427.2	490.3	693.0	1340.6	3084.8	6279.8	9402.5	9675.9	7376.5
70°	352.4	355.7	364.2	384.3	458.3	756.9	1919.2	4905.6	7797.0	7874.4	5772.7
72.5°	287.6	296.9	322.9	329.7	363.3	472.6	1068.1	3292.6	5238.7	5258.0	3229.5
75°	222.9	224.5	263.2	282.6	306.1	325.5	476.8	1660.1	2516.3	2381.7	1244.7
77.5°	166.5	174.1	191.7	216.1	249.8	233.0	213.6	625.7	781.3	767.0	361.6
80°	106.8	111.0	133.7	162.3	194.3	152.2	120.3	183.3	171.6	176.6	86.6
82.5°	53.8	54.7	85.8	132.0	123.6	76.5	75.7	74.8	63.9	63.1	40.4
85°	5.9	12.6	55.5	75.7	55.5	25.2	35.3	34.5	33.6	34.5	23.5
87.5°	0.8	0.8	9.3	10.9	7.6	8.4	10.1	10.9	13.5	12.6	10.1
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: P651858

CATALOG NUMBER: GALN-SA4A-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1
2.5°	1050.4	1016.8	954.5	894.8	850.3	821.7	784.7	771.2	751.9	749.3	740.1
5°	1095.8	1031.9	923.4	837.6	768.7	716.5	671.1	633.3	603.0	596.3	599.6
7.5°	1160.6	1065.5	914.2	797.3	701.4	612.2	539.9	495.3	463.4	451.6	453.3
10°	1233.7	1110.1	912.5	754.4	608.0	498.7	419.7	380.1	361.6	354.9	347.3
12.5°	1320.4	1161.4	908.3	687.9	505.4	397.8	341.4	317.9	300.2	295.2	295.2
15°	1417.9	1216.1	888.1	605.5	410.4	328.8	291.0	272.5	266.6	261.6	261.6
17.5°	1519.7	1269.9	846.0	503.8	340.6	281.7	258.2	247.3	238.8	233.0	233.0
20°	1635.7	1322.9	778.8	413.8	287.6	251.5	233.0	220.3	213.6	208.6	206.9
22.5°	1745.9	1365.8	693.0	339.8	250.6	226.2	209.4	196.0	189.2	186.7	186.7
25°	1860.3	1391.9	589.5	280.9	228.8	205.2	186.7	175.8	169.9	168.2	167.4
27.5°	1971.3	1407.0	498.7	245.6	208.6	185.9	168.2	159.8	153.9	152.2	153.1
30°	2105.9	1409.5	410.4	220.3	190.9	167.4	151.4	143.8	140.4	138.8	137.9
32.5°	2242.1	1406.2	344.8	205.2	174.1	151.4	137.9	132.0	129.5	127.0	127.0
35°	2395.2	1388.5	293.5	190.1	158.1	137.9	126.2	121.1	117.7	115.2	114.4
37.5°	2585.2	1379.2	264.1	173.2	143.8	125.3	114.4	109.3	106.8	103.4	102.6
40°	2884.6	1420.4	254.8	158.1	129.5	113.5	103.4	97.6	94.2	90.8	90.0
42.5°	3258.1	1492.8	239.7	143.0	116.9	102.6	92.5	85.8	79.9	75.7	74.0
45°	3741.7	1587.8	216.1	127.0	106.0	90.8	81.6	73.2	65.6	62.2	61.4
47.5°	4248.8	1679.5	195.1	114.4	94.2	80.7	70.6	61.4	54.7	52.1	51.3
50°	4560.0	1698.0	181.7	100.1	82.4	69.8	59.7	51.3	47.1	44.6	44.6
52.5°	4702.1	1668.5	163.2	87.5	71.5	61.4	51.3	44.6	42.0	40.4	39.5
55°	4801.4	1623.1	138.8	75.7	61.4	52.1	45.4	40.4	37.0	35.3	34.5
57°	4859.4	1561.7	120.3	66.4	53.0	45.4	40.4	36.2	32.8	29.4	29.4
57.5°	4861.9	1538.2	115.2	65.6	50.5	43.7	39.5	35.3	31.1	27.8	26.9
60°	4787.1	1376.7	92.5	55.5	40.4	37.0	32.8	27.8	21.9	18.5	17.7
62.5°	4546.5	1171.5	76.5	47.1	32.8	28.6	23.5	21.0	15.1	10.9	10.9
65°	4182.4	950.3	65.6	37.8	26.9	21.0	16.0	15.1	9.3	5.0	4.2
67.5°	3655.9	740.1	55.5	31.1	22.7	15.1	10.9	10.1	5.0	1.7	0.0
70°	2785.4	504.6	46.3	25.2	16.8	10.9	7.6	5.9	3.4	0.8	0.0
72.5°	1605.5	277.5	38.7	19.3	12.6	8.4	5.9	3.4	3.4	0.0	0.0
75°	573.6	119.4	29.4	14.3	10.1	6.7	4.2	1.7	2.5	0.8	0.0
77.5°	182.5	63.9	19.3	10.9	8.4	5.0	3.4	1.7	1.7	0.8	0.0
80°	53.8	33.6	11.8	9.3	5.9	4.2	2.5	0.8	1.7	0.8	0.0
82.5°	29.4	16.8	9.3	6.7	5.9	3.4	2.5	0.8	0.8	0.8	0.0
85°	15.1	10.1	7.6	6.7	5.9	3.4	2.5	0.8	0.0	0.8	0.8
87.5°	8.4	7.6	7.6	6.7	5.9	4.2	2.5	0.8	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)