

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: P453484

Luminaire Tested: **GALN-SA4C-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18935 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

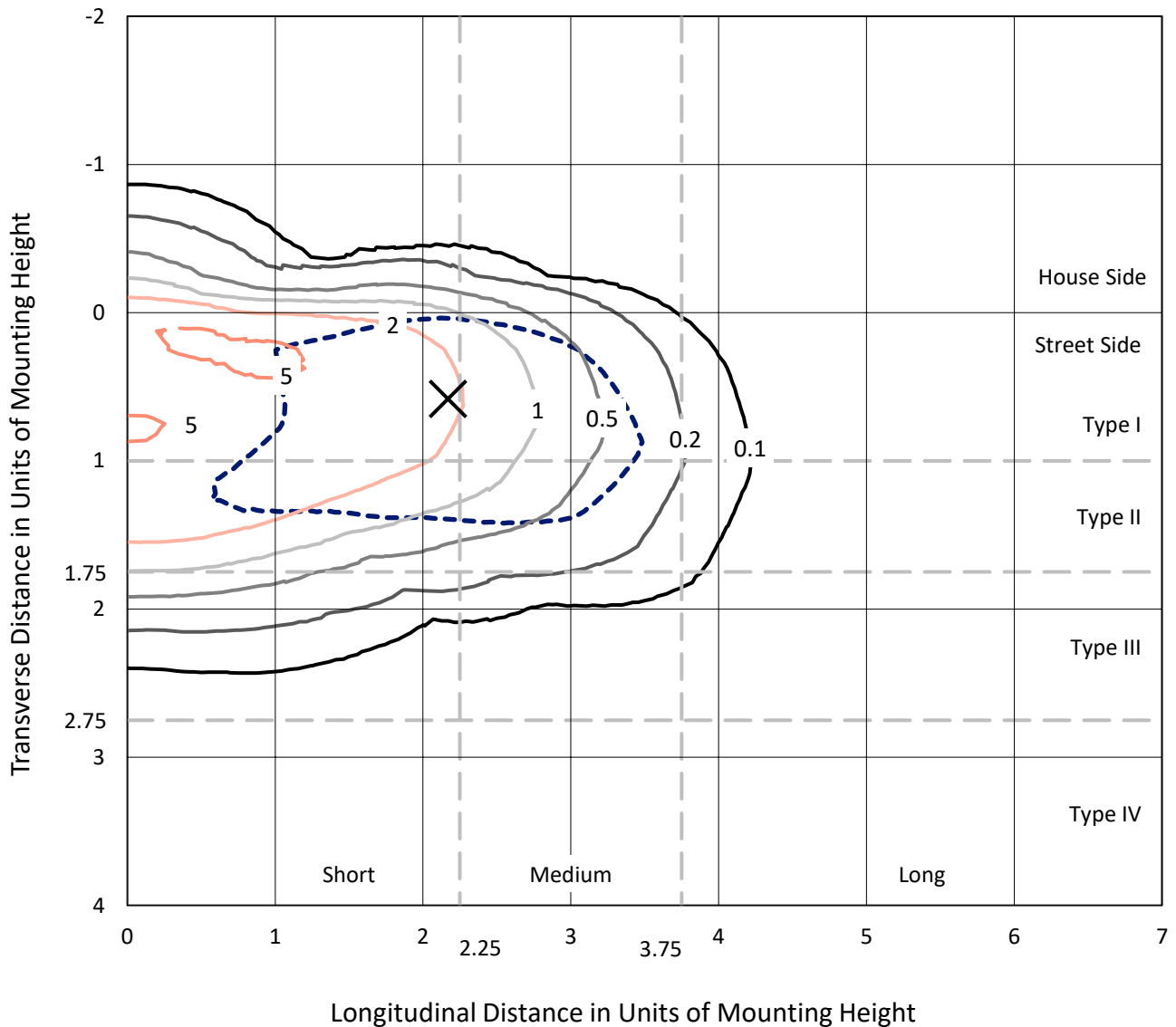
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

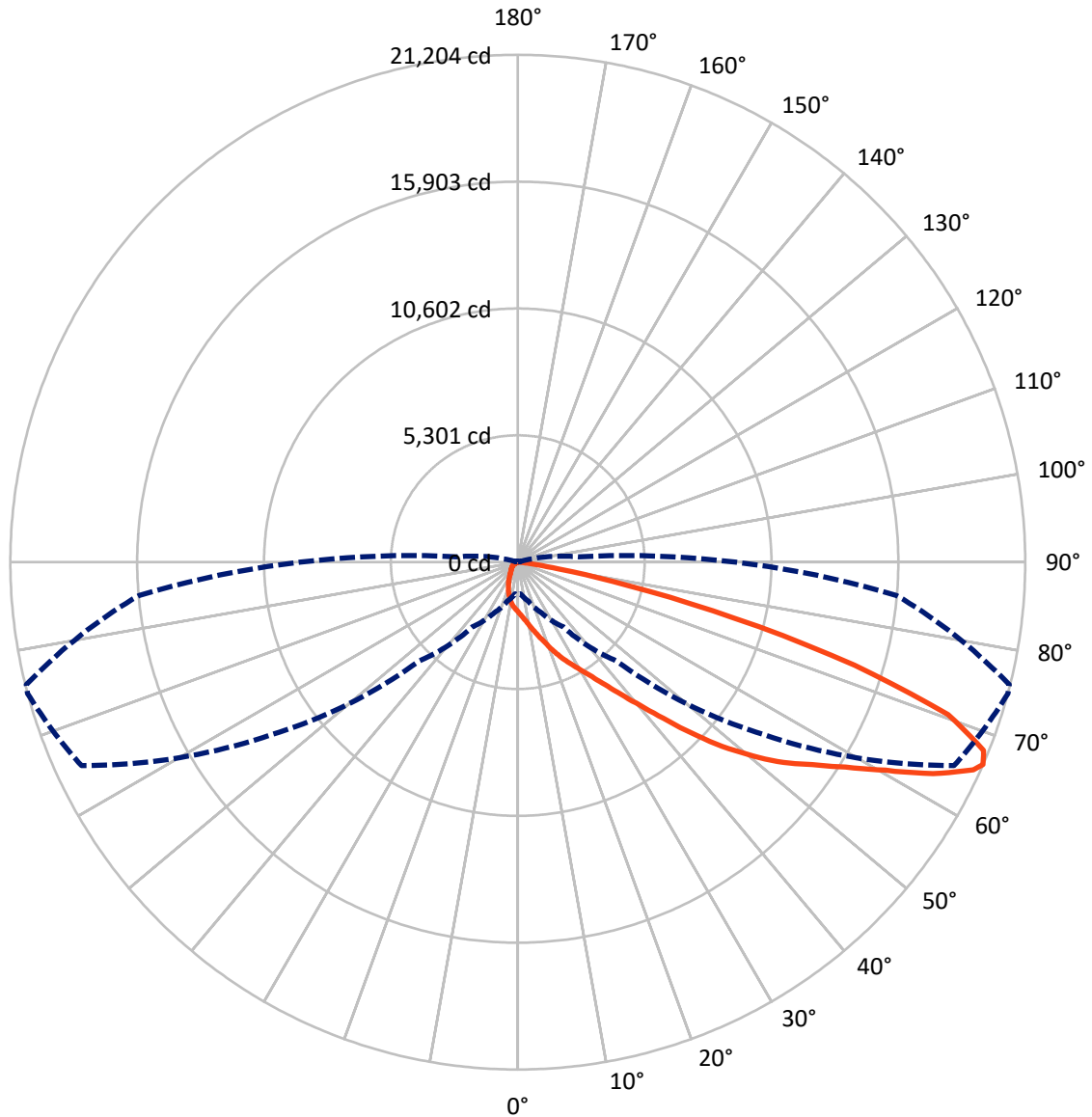
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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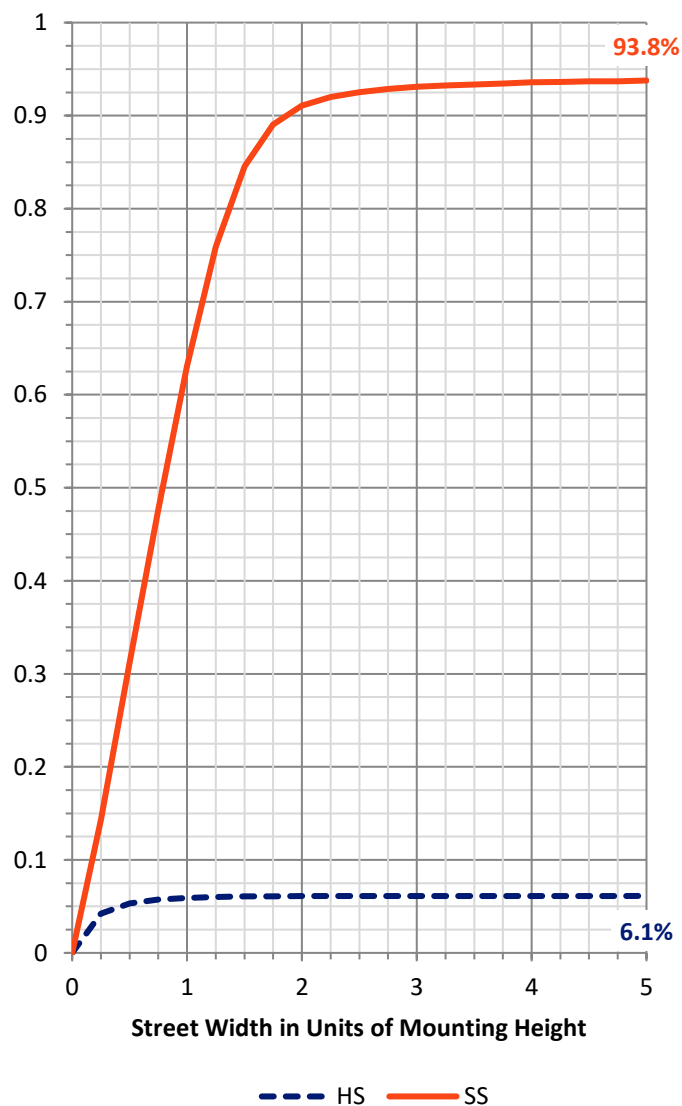
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1168.9	0.0	1168.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17766.0	0.0	17766.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	18935.0	0.0	18935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	1.1
10°-20°	587.8	3.1
20°-30°	1015.0	5.4
30°-40°	1830.9	9.7
40°-50°	3307.5	17.5
50°-60°	5156.4	27.2
60°-70°	4898.4	25.9
70°-80°	1835.8	9.7
80°-90°	103.6	0.5
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°	18935.0	100.0
0°-180°	18935.0	100.0

Coefficient of Utilization



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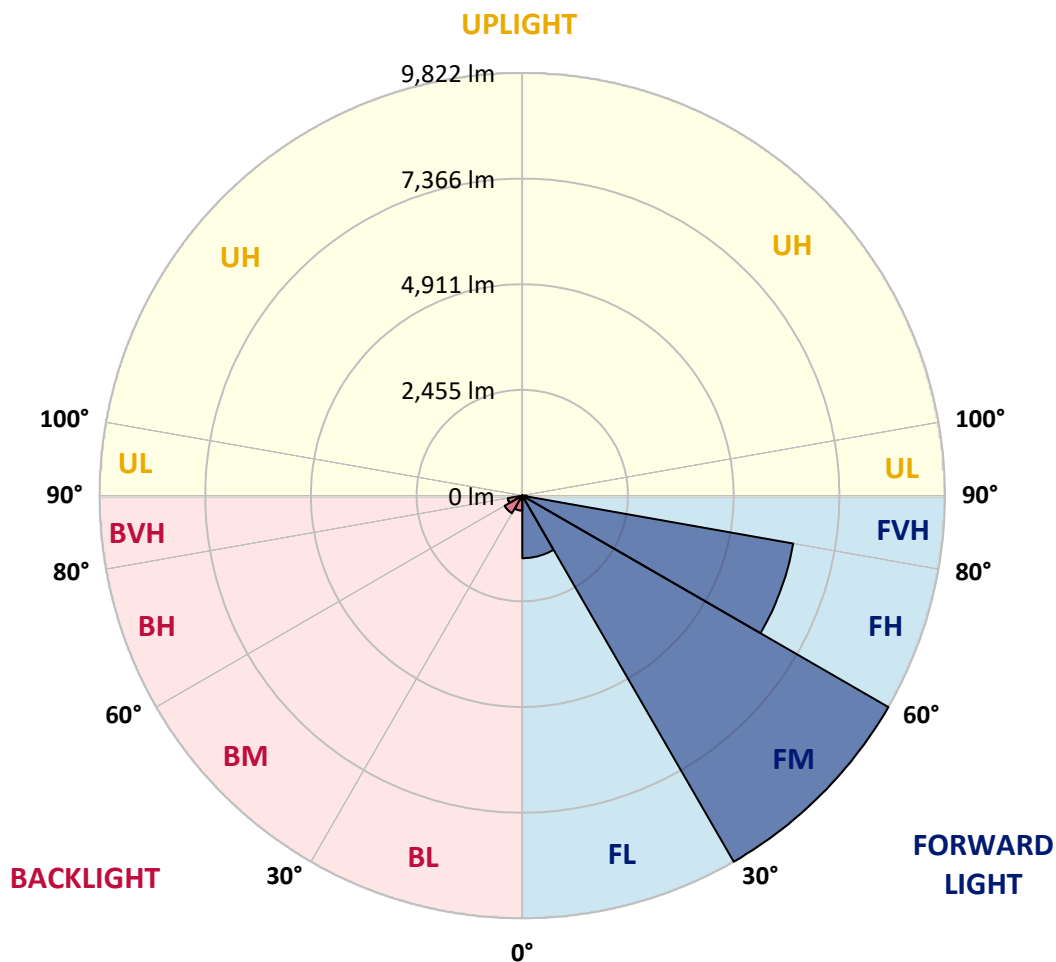
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.4	7.7			
FM (30°-60°)	9821.6	51.9			
FH (60°-80°)	6392.8	33.8			G3/7500
FVH (80°-90°)	98.2	0.5			G1/100
BL (0°-30°)	349.1	1.8	B1/500		
BM (30°-60°)	473.2	2.5	B1/1000		
BH (60°-80°)	341.3	1.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2474.0	2443.2	2453.0	2439.0	2406.8	2359.1	2317.1	2256.9	2196.7	2186.9	2119.7
5°	2800.2	2791.8	2780.6	2740.0	2717.6	2644.8	2558.0	2454.4	2329.7	2307.3	2185.5
7.5°	3022.8	3018.6	3024.2	3003.2	2983.6	2917.8	2825.4	2684.0	2490.8	2478.2	2275.1
10°	3095.6	3106.8	3127.8	3161.4	3192.2	3171.2	3101.2	2924.8	2699.4	2663.0	2377.3
12.5°	3053.6	3066.2	3116.6	3206.2	3305.6	3363.0	3335.0	3206.2	2920.6	2891.2	2492.2
15°	2945.8	2961.2	3032.6	3171.2	3349.0	3511.4	3581.4	3489.0	3178.2	3130.6	2630.8
17.5°	2786.2	2808.6	2910.8	3094.2	3337.8	3617.8	3815.2	3784.4	3452.6	3407.8	2782.0
20°	2665.8	2682.6	2769.4	2979.4	3290.2	3676.6	4037.9	4124.7	3791.4	3714.4	2959.8
22.5°	2745.6	2751.2	2780.6	2906.6	3204.8	3692.0	4233.9	4478.9	4151.3	4082.7	3144.6
25°	3136.2	3080.2	3050.8	3022.8	3186.6	3678.0	4411.7	4848.5	4509.7	4436.9	3328.0
27.5°	3752.2	3727.0	3578.6	3379.8	3342.0	3696.2	4529.3	5198.5	4847.1	4768.7	3507.2
30°	4422.9	4379.5	4288.5	3997.2	3704.6	3825.0	4614.7	5538.7	5246.1	5142.5	3671.0
32.5°	5038.9	5066.9	4931.1	4631.5	4292.7	4099.5	4725.3	5909.8	5704.0	5575.1	3861.4
35°	5757.2	5813.2	5604.6	5317.5	4921.3	4595.1	4940.9	6328.4	6285.0	6122.6	4155.5
37.5°	6486.6	6520.2	6392.8	5989.6	5632.6	5225.1	5346.9	6845.0	7000.4	6861.8	4506.9
40°	7099.8	7146.0	7052.2	6693.8	6313.0	5954.6	5936.4	7407.9	7851.7	7708.9	5030.5
42.5°	7568.9	7603.9	7606.7	7353.3	7010.2	6847.8	6688.2	8126.1	8918.6	8753.3	5638.2
45°	8161.1	8211.5	8182.1	8009.9	7753.7	7724.3	7641.7	8994.2	10195.4	9986.8	6426.4
47.5°	9076.8	9110.4	9037.6	8834.6	8574.1	8620.3	8571.3	9967.2	11497.5	11318.3	7242.7
50°	9712.4	9768.4	9872.0	9953.2	9764.2	9593.4	9447.8	10875.9	12733.8	12572.8	8077.1
52.5°	9705.4	9797.8	10125.4	10534.3	10947.3	10895.5	10476.9	11879.7	13914.1	13715.3	8861.2
55°	9051.6	9230.8	9712.4	10437.7	11581.5	12151.4	11960.9	13041.8	14933.3	14798.9	9769.8
57.5°	7701.9	7811.1	8480.3	9494.0	11227.3	12742.2	13680.3	14616.9	16155.6	16092.6	11181.1
60°	5180.3	5229.3	6090.4	7343.5	9558.4	12152.8	14940.3	16522.4	17660.7	17629.9	12829.0
62.5°	2968.2	2989.2	3613.6	4670.7	6801.6	10299.0	15046.7	18873.2	19465.4	19482.2	14735.9
65°	1597.5	1608.7	2112.7	2741.4	4138.7	7340.7	13530.4	20161.3	20924.3	20956.5	15917.6
66°	1379.1	1325.9	1681.5	2336.7	3293.0	5842.6	12571.4	20115.1	21204.3	21169.3	15875.6
67.5°	1048.7	1096.3	1342.7	1796.3	2440.4	4154.1	10378.8	19220.4	20991.5	20882.3	15230.2
70°	750.4	770.0	956.3	1281.1	1661.9	2279.3	6632.2	15963.8	19079.0	18932.0	13268.6
72.5°	484.4	505.4	677.6	926.9	1201.3	1244.7	3713.0	11533.9	14709.3	14688.3	9992.4
75°	345.8	365.4	448.0	663.6	903.1	770.0	1787.9	7773.3	9351.2	9288.2	6181.4
77.5°	250.6	260.4	299.6	434.0	645.4	551.6	828.9	4151.3	4655.3	4875.1	2731.6
80°	144.2	152.6	208.6	264.6	436.8	376.6	396.2	1666.1	1717.9	1635.3	854.1
82.5°	71.4	81.2	124.6	180.6	273.0	253.4	182.0	501.2	529.2	515.2	215.6
85°	16.8	21.0	70.0	119.0	133.0	113.4	88.2	147.0	182.0	177.8	82.6
87.5°	1.4	2.8	25.2	21.0	22.4	37.8	30.8	37.8	58.8	54.6	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2088.9	2062.3	1985.3	1909.7	1846.7	1780.9	1720.7	1685.7	1671.7	1656.3	1663.3
5°	2118.3	2053.9	1898.5	1764.1	1632.5	1520.5	1430.9	1373.5	1345.5	1341.3	1334.3
7.5°	2157.5	2046.9	1806.1	1596.1	1423.9	1299.3	1197.1	1114.5	1089.3	1066.9	1048.7
10°	2205.1	2034.3	1691.3	1419.7	1236.3	1079.5	945.1	847.1	796.6	782.6	792.4
12.5°	2255.5	2010.5	1570.9	1257.3	1045.9	845.7	721.0	672.0	658.0	652.4	653.8
15°	2305.9	1981.1	1444.9	1100.5	833.1	674.8	617.4	604.8	599.2	596.4	593.6
17.5°	2352.1	1933.5	1303.5	947.9	674.8	576.8	555.8	544.6	533.4	529.2	522.2
20°	2406.8	1878.9	1176.1	777.0	571.2	522.2	497.0	476.0	459.2	448.0	446.6
22.5°	2458.6	1808.9	1043.1	644.0	520.8	469.0	428.4	406.0	386.4	372.4	376.6
25°	2486.6	1723.5	924.1	561.4	474.6	415.8	371.0	343.0	322.0	315.0	313.6
27.5°	2486.6	1618.5	807.9	513.8	432.6	368.2	322.0	295.4	281.4	271.6	273.0
30°	2467.0	1502.3	700.0	477.4	396.2	326.2	282.8	259.0	247.8	240.8	239.4
32.5°	2451.6	1391.7	607.6	442.4	358.4	289.8	252.0	233.8	222.6	215.6	215.6
35°	2475.4	1296.5	536.2	407.4	323.4	261.8	228.2	211.4	200.2	194.6	193.2
37.5°	2538.4	1209.7	481.6	369.6	291.2	238.0	211.4	191.8	180.6	173.6	170.8
40°	2693.8	1160.7	441.0	334.6	260.4	218.4	191.8	173.6	159.6	152.6	151.2
42.5°	2943.0	1162.1	401.8	302.4	236.6	201.6	175.0	154.0	138.6	131.6	130.2
45°	3318.2	1215.3	371.0	271.6	215.6	183.4	156.8	134.4	120.4	113.4	113.4
47.5°	3767.6	1318.9	344.4	245.0	196.0	166.6	138.6	116.2	102.2	96.6	96.6
50°	4254.9	1453.3	317.8	217.0	179.2	148.4	119.0	100.8	89.6	85.4	85.4
52.5°	4751.9	1615.7	291.2	194.6	161.0	128.8	102.2	89.6	79.8	77.0	75.6
55°	5404.3	1822.9	263.2	170.8	141.4	110.6	91.0	78.4	67.2	63.0	61.6
57.5°	6408.2	2135.1	232.4	149.8	116.2	92.4	78.4	65.8	53.2	46.2	44.8
60°	7619.3	2516.0	200.2	131.6	93.8	75.6	63.0	50.4	39.2	30.8	29.4
62.5°	8753.3	2758.2	169.4	110.6	74.2	57.4	44.8	37.8	28.0	19.6	18.2
65°	9254.6	2677.0	140.0	89.6	58.8	40.6	29.4	26.6	16.8	8.4	7.0
66°	9088.0	2556.6	128.8	81.2	53.2	35.0	25.2	22.4	12.6	4.2	4.2
67.5°	8596.5	2272.3	112.0	70.0	46.2	28.0	19.6	16.8	7.0	1.4	0.0
70°	7365.9	1838.3	88.2	51.8	33.6	19.6	11.2	8.4	4.2	0.0	0.0
72.5°	5657.8	1369.3	70.0	39.2	23.8	11.2	5.6	2.8	4.2	0.0	0.0
75°	3466.6	782.6	54.6	29.4	15.4	7.0	4.2	0.0	4.2	1.4	0.0
77.5°	1538.7	351.4	36.4	19.6	11.2	5.6	2.8	0.0	2.8	1.4	0.0
80°	389.2	114.8	21.0	14.0	8.4	4.2	1.4	0.0	2.8	2.8	1.4
82.5°	106.4	42.0	15.4	11.2	7.0	4.2	1.4	0.0	2.8	2.8	2.8
85°	42.0	19.6	14.0	11.2	8.4	4.2	1.4	0.0	2.8	2.8	2.8
87.5°	19.6	14.0	14.0	12.6	9.8	4.2	1.4	0.0	2.8	1.4	2.8
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)