

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: P650755

Luminaire Tested: **GALN-SA2C-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650755
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-SA2C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 8888.5 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

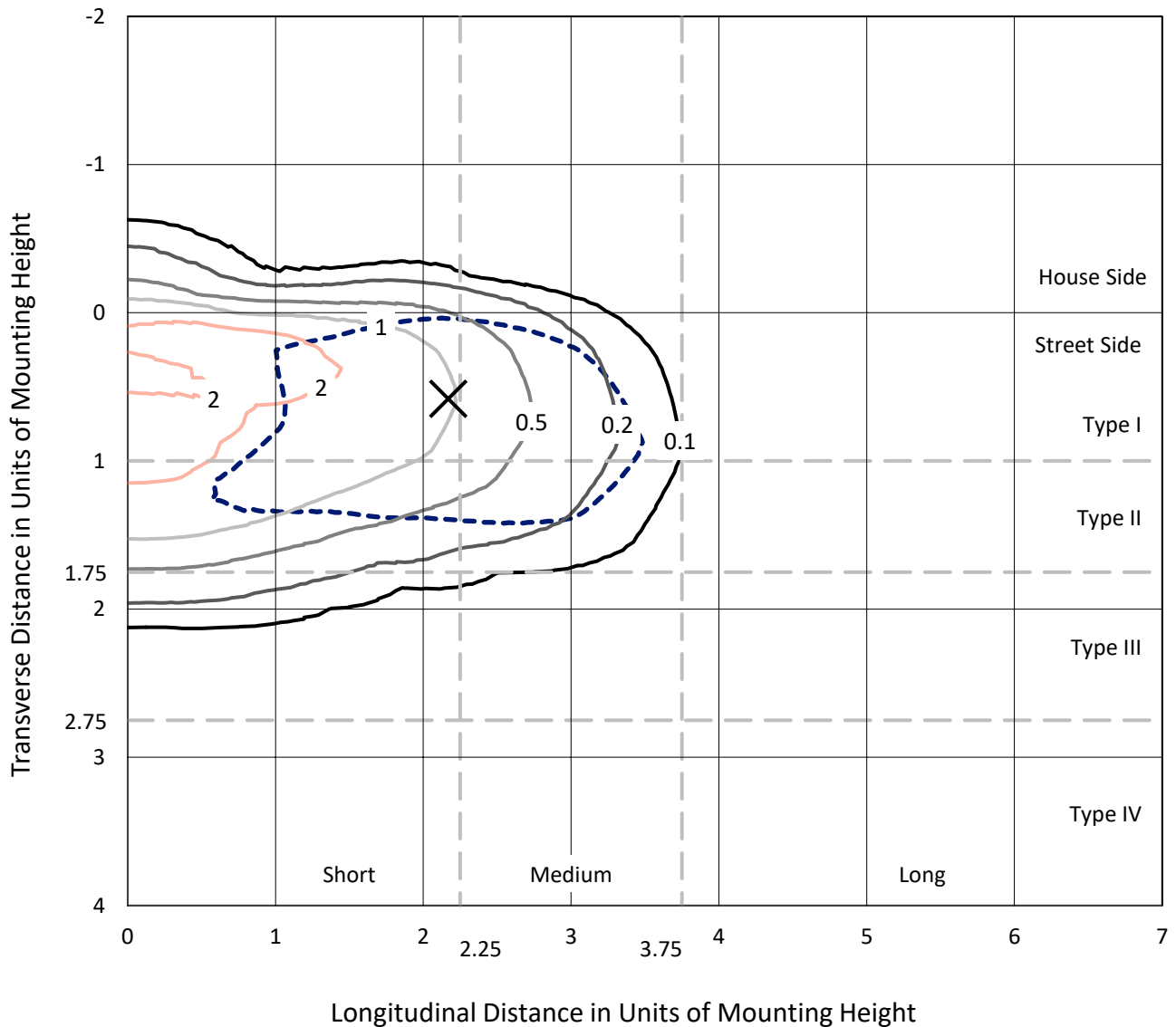
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

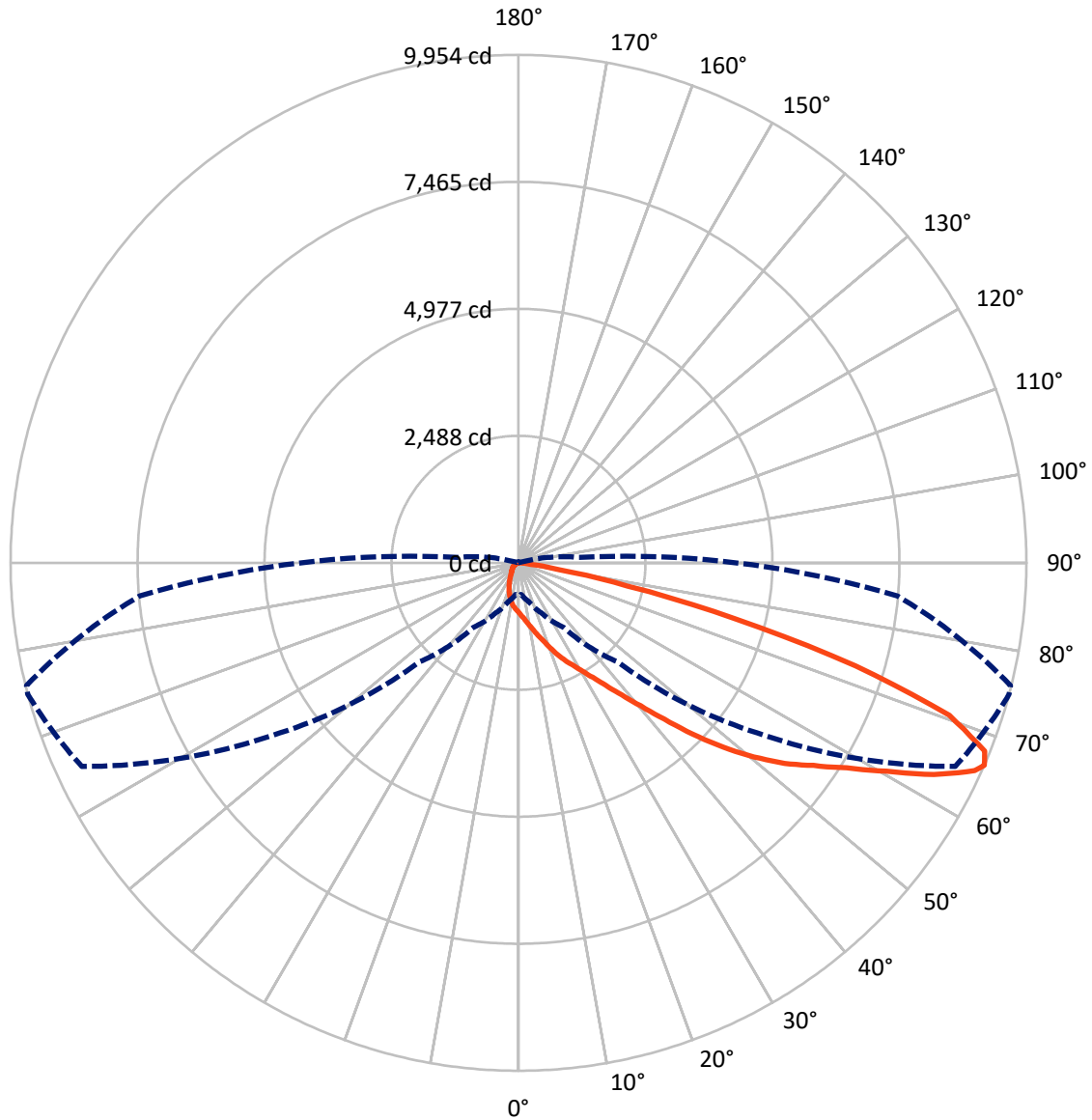
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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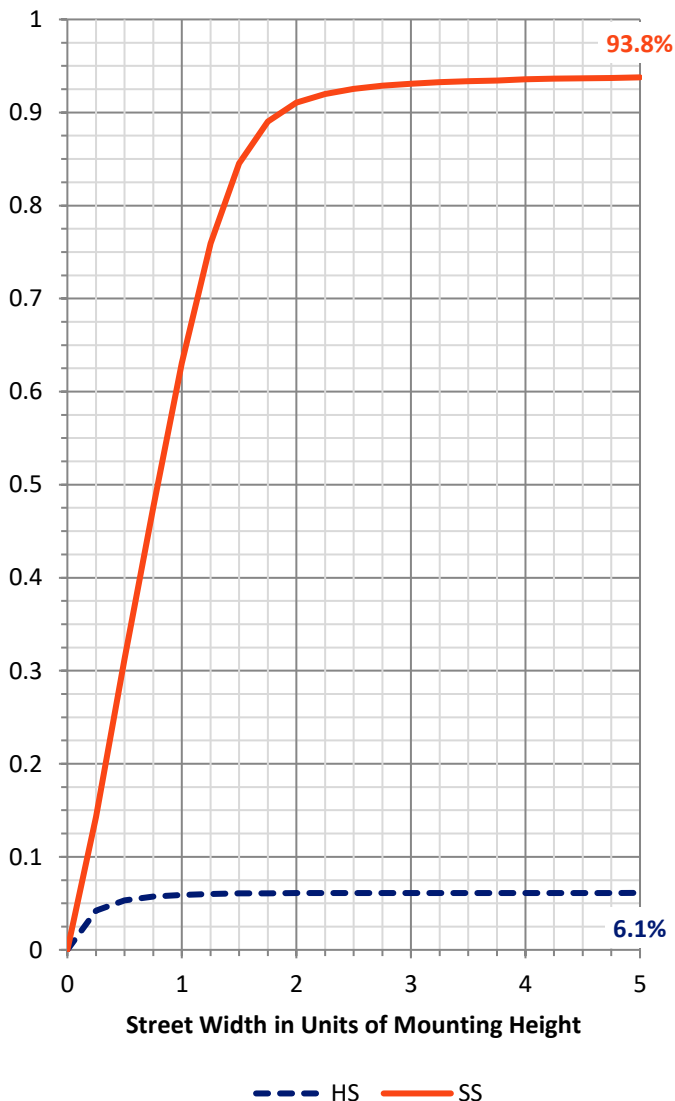
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.7	0.0	548.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8339.8	0.0	8339.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	8888.5	0.0	8888.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	1.1
10°-20°	275.9	3.1
20°-30°	476.5	5.4
30°-40°	859.4	9.7
40°-50°	1552.6	17.5
50°-60°	2420.5	27.2
60°-70°	2299.4	25.9
70°-80°	861.8	9.7
80°-90°	48.6	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°	8888.5	100.0
0°-180°	8888.5	100.0

Coefficient of Utilization



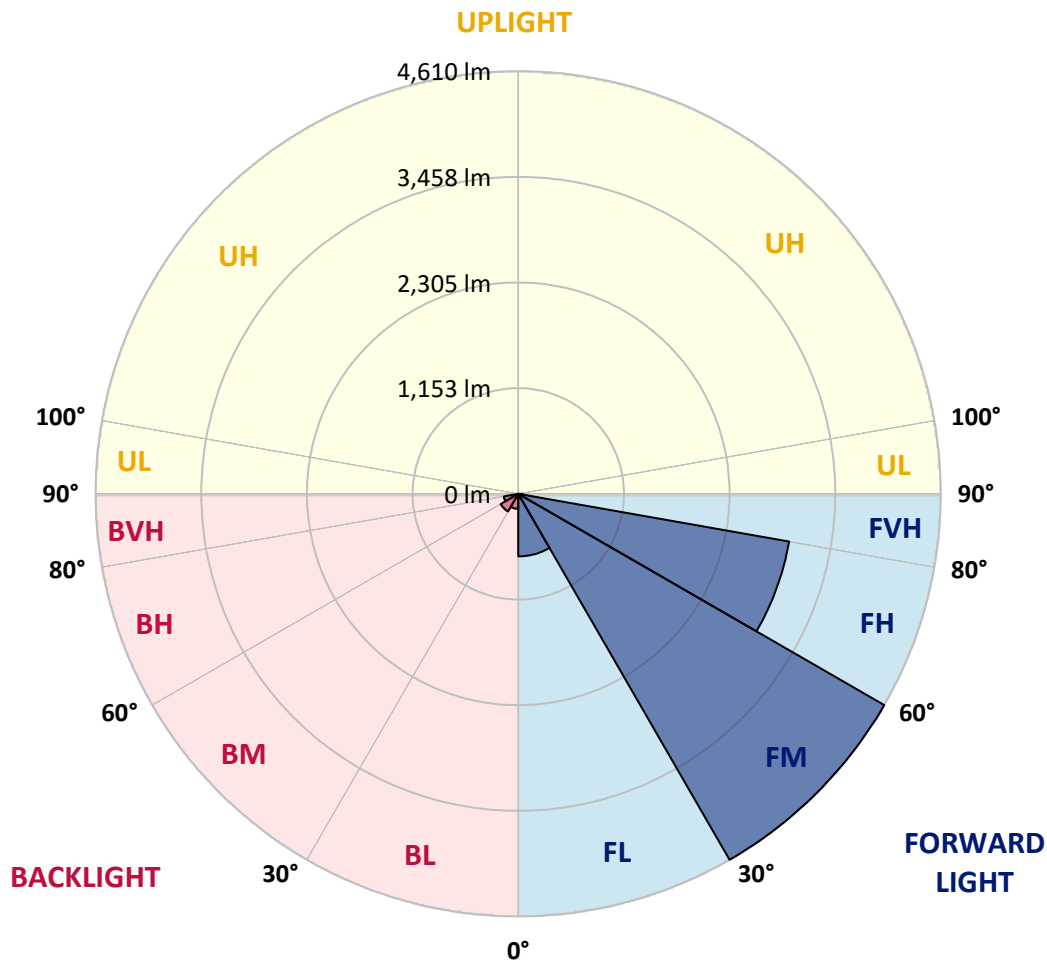
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.3	7.7			
FM (30°-60°)	4610.5	51.9			
FH (60°-80°)	3000.9	33.8			G2/5000
FVH (80°-90°)	46.1	0.5			G1/100
BL (0°-30°)	163.9	1.8	B1/500		
BM (30°-60°)	222.1	2.5	B1/1000		
BH (60°-80°)	160.2	1.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0
2.5°	1161.3	1146.9	1151.5	1144.9	1129.8	1107.4	1087.7	1059.5	1031.2	1026.6	995.1
5°	1314.5	1310.5	1305.2	1286.2	1275.7	1241.5	1200.8	1152.2	1093.6	1083.1	1025.9
7.5°	1418.9	1417.0	1419.6	1409.8	1400.6	1369.7	1326.3	1259.9	1169.2	1163.3	1068.0
10°	1453.2	1458.4	1468.3	1484.0	1498.5	1488.7	1455.8	1372.9	1267.1	1250.1	1116.0
12.5°	1433.4	1439.4	1463.0	1505.1	1551.7	1578.6	1565.5	1505.1	1371.0	1357.2	1169.9
15°	1382.9	1390.1	1423.6	1488.7	1572.1	1648.4	1681.2	1637.8	1491.9	1469.6	1234.9
17.5°	1307.9	1318.4	1366.4	1452.5	1566.9	1698.3	1791.0	1776.5	1620.8	1599.7	1305.9
20°	1251.4	1259.2	1300.0	1398.6	1544.5	1725.9	1895.4	1936.2	1779.8	1743.6	1389.4
22.5°	1288.8	1291.4	1305.2	1364.4	1504.4	1733.1	1987.5	2102.5	1948.7	1916.5	1476.1
25°	1472.2	1445.9	1432.1	1418.9	1495.9	1726.6	2071.0	2276.0	2117.0	2082.7	1562.2
27.5°	1761.4	1749.5	1679.9	1586.5	1568.8	1735.1	2126.1	2440.3	2275.3	2238.6	1646.3
30°	2076.2	2055.8	2013.1	1876.4	1739.0	1795.5	2166.2	2600.0	2462.6	2414.0	1723.3
32.5°	2365.4	2378.5	2314.8	2174.2	2015.1	1924.4	2218.1	2774.2	2677.6	2617.1	1812.7
35°	2702.6	2728.8	2630.9	2496.2	2310.1	2157.1	2319.4	2970.7	2950.3	2874.1	1950.7
37.5°	3044.9	3060.7	3000.9	2811.6	2644.0	2452.8	2510.0	3213.2	3286.2	3221.1	2115.6
40°	3332.8	3354.5	3310.5	3142.2	2963.4	2795.2	2786.7	3477.5	3685.8	3618.7	2361.4
42.5°	3553.0	3569.5	3570.7	3451.8	3290.7	3214.6	3139.6	3814.6	4186.6	4109.0	2646.7
45°	3831.0	3854.6	3840.8	3760.0	3639.8	3626.0	3587.2	4222.1	4786.0	4688.1	3016.7
47.5°	4260.8	4276.7	4242.4	4147.1	4024.9	4046.6	4023.6	4678.8	5397.2	5313.1	3399.9
50°	4559.2	4585.6	4634.2	4672.3	4583.5	4503.4	4435.0	5105.4	5977.6	5902.0	3791.6
52.5°	4555.9	4599.3	4753.1	4945.0	5138.9	5114.6	4918.1	5576.6	6531.6	6438.3	4159.7
55°	4249.0	4333.2	4559.2	4899.7	5436.6	5704.2	5614.8	6122.1	7010.1	6947.0	4586.1
57.5°	3615.5	3666.7	3980.9	4456.7	5270.4	5981.4	6421.8	6861.6	7583.8	7554.3	5248.7
60°	2431.8	2454.8	2859.0	3447.2	4486.9	5704.8	7013.4	7756.0	8290.3	8275.9	6022.2
62.5°	1393.4	1403.2	1696.3	2192.6	3192.9	4834.6	7063.3	8859.5	9137.5	9145.4	6917.4
65°	749.9	755.1	991.8	1286.9	1942.8	3445.9	6351.5	9464.2	9822.4	9837.5	7472.1
66°	647.4	622.4	789.4	1096.9	1545.8	2742.7	5901.3	9442.5	9953.8	9937.3	7452.4
67.5°	492.2	514.6	630.2	843.3	1145.5	1950.0	4872.1	9022.5	9853.9	9802.6	7149.4
70°	352.3	361.5	448.9	601.4	780.1	1070.0	3113.3	7493.8	8956.1	8887.1	6228.6
72.5°	227.4	237.2	318.1	435.0	563.9	584.2	1743.0	5414.3	6904.9	6895.0	4690.7
75°	162.3	171.6	210.3	311.5	423.9	361.5	839.3	3648.9	4389.7	4360.1	2901.7
77.5°	117.7	122.3	140.6	203.8	303.0	258.9	389.0	1948.7	2185.3	2288.5	1282.3
80°	67.7	71.7	97.9	124.2	205.0	176.8	186.0	782.1	806.4	767.7	400.9
82.5°	33.6	38.1	58.5	84.8	128.2	118.9	85.4	235.3	248.4	241.9	101.2
85°	7.9	9.8	32.9	55.8	62.4	53.2	41.4	69.0	85.4	83.4	38.8
87.5°	0.7	1.3	11.9	9.8	10.5	17.7	14.5	17.7	27.6	25.7	13.8
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°	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0	972.0
2.5°	980.6	968.1	932.0	896.5	866.9	836.0	807.8	791.3	784.7	777.5	780.8
5°	994.4	964.1	891.2	828.1	766.3	713.8	671.7	644.7	631.6	629.7	626.4
7.5°	1012.8	960.8	847.8	749.2	668.4	609.9	562.0	523.2	511.3	500.8	492.2
10°	1035.1	955.0	793.9	666.4	580.4	506.7	443.6	397.6	374.0	367.4	372.0
12.5°	1058.8	943.8	737.4	590.2	491.0	397.0	338.5	315.5	308.9	306.3	307.0
15°	1082.5	930.0	678.3	516.6	391.1	316.8	289.8	283.9	281.3	280.0	278.7
17.5°	1104.1	907.6	611.9	445.0	316.8	270.8	261.0	255.7	250.4	248.4	245.2
20°	1129.8	882.0	552.1	364.7	268.1	245.2	233.3	223.5	215.5	210.3	209.7
22.5°	1154.1	849.2	489.6	302.3	244.5	220.2	201.1	190.6	181.4	174.8	176.8
25°	1167.2	809.0	433.8	263.6	222.8	195.2	174.2	161.1	151.1	147.8	147.3
27.5°	1167.2	759.8	379.2	241.2	203.1	172.8	151.1	138.7	132.1	127.5	128.2
30°	1158.1	705.2	328.6	224.1	186.0	153.1	132.8	121.6	116.3	113.0	112.4
32.5°	1150.8	653.3	285.3	207.7	168.3	136.1	118.3	109.8	104.5	101.2	101.2
35°	1162.0	608.6	251.7	191.2	151.8	122.9	107.1	99.2	94.0	91.3	90.7
37.5°	1191.5	567.8	226.1	173.5	136.7	111.8	99.2	90.1	84.8	81.5	80.1
40°	1264.5	544.9	207.1	157.1	122.3	102.5	90.1	81.5	74.9	71.7	71.0
42.5°	1381.5	545.5	188.6	142.0	111.1	94.6	82.2	72.3	65.1	61.8	61.1
45°	1557.6	570.5	174.2	127.5	101.2	86.1	73.6	63.1	56.5	53.2	53.2
47.5°	1768.6	619.1	161.6	115.0	92.0	78.2	65.1	54.6	47.9	45.3	45.3
50°	1997.3	682.2	149.2	101.8	84.1	69.6	55.8	47.3	42.0	40.1	40.1
52.5°	2230.7	758.4	136.7	91.3	75.6	60.5	47.9	42.0	37.4	36.2	35.5
55°	2537.0	855.7	123.5	80.1	66.4	51.9	42.7	36.8	31.5	29.6	28.9
57.5°	3008.2	1002.3	109.1	70.3	54.6	43.4	36.8	30.9	25.0	21.7	21.0
60°	3576.7	1181.0	94.0	61.8	44.1	35.5	29.6	23.6	18.4	14.5	13.8
62.5°	4109.0	1294.7	79.6	51.9	34.8	26.9	21.0	17.7	13.1	9.2	8.6
65°	4344.4	1256.6	65.7	42.0	27.6	19.1	13.8	12.4	7.9	4.0	3.3
66°	4266.1	1200.1	60.5	38.1	25.0	16.4	11.9	10.5	5.9	1.9	1.9
67.5°	4035.5	1066.7	52.6	32.9	21.7	13.1	9.2	7.9	3.3	0.7	0.0
70°	3457.7	863.0	41.4	24.3	15.8	9.2	5.3	4.0	1.9	0.0	0.0
72.5°	2655.9	642.8	32.9	18.4	11.2	5.3	2.6	1.3	1.9	0.0	0.0
75°	1627.3	367.4	25.7	13.8	7.2	3.3	1.9	0.0	1.9	0.7	0.0
77.5°	722.3	165.0	17.1	9.2	5.3	2.6	1.3	0.0	1.3	0.7	0.0
80°	182.7	53.9	9.8	6.6	4.0	1.9	0.7	0.0	1.3	1.3	0.7
82.5°	50.0	19.7	7.2	5.3	3.3	1.9	0.7	0.0	1.3	1.3	1.3
85°	19.7	9.2	6.6	5.3	4.0	1.9	0.7	0.0	1.3	1.3	1.3
87.5°	9.2	6.6	6.6	5.9	4.6	1.9	0.7	0.0	1.3	0.7	1.3
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)