

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: P451630

Luminaire Tested: **GALN-SA2C-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451630  
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-SA2C-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA 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: 10309 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

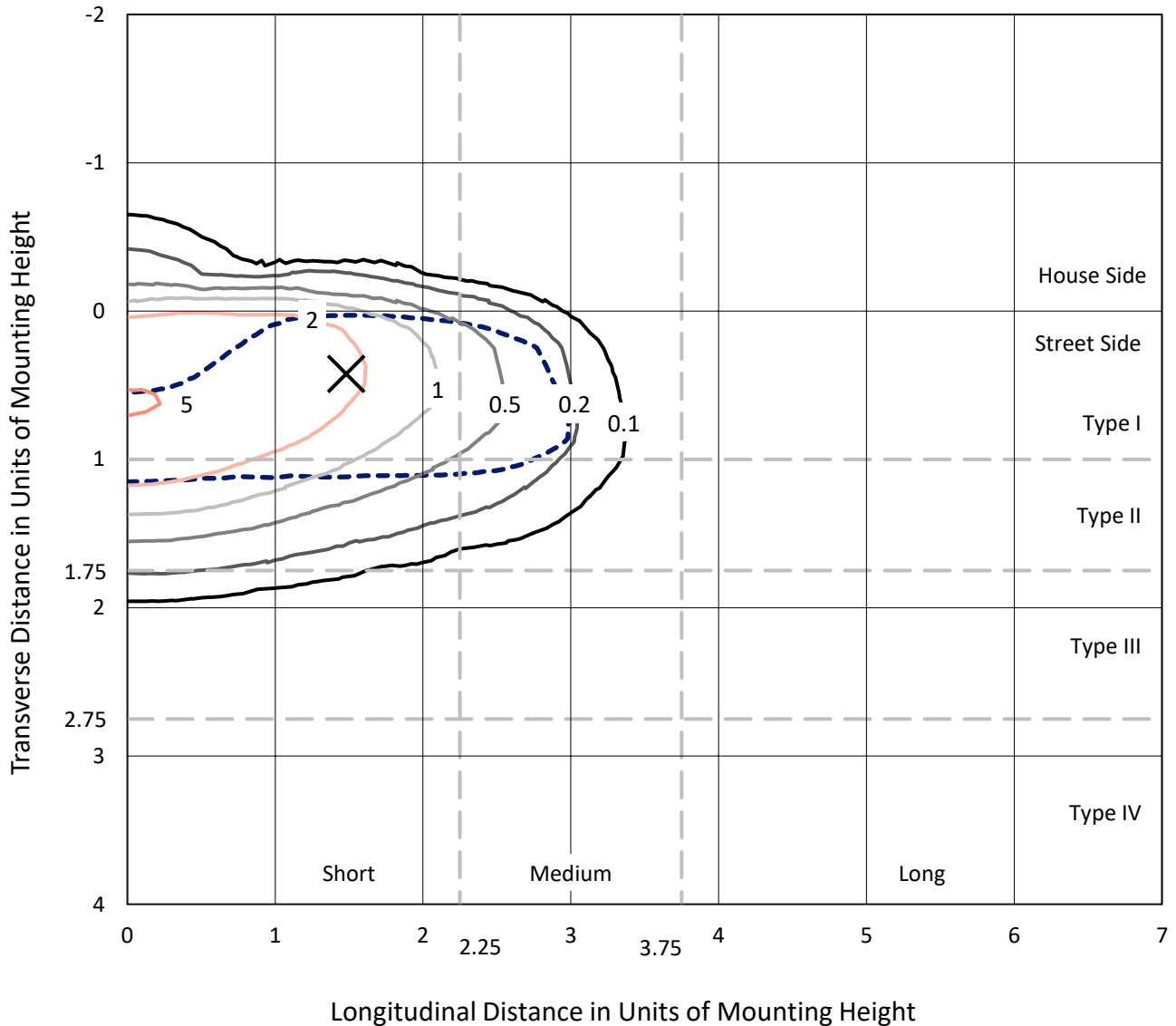
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

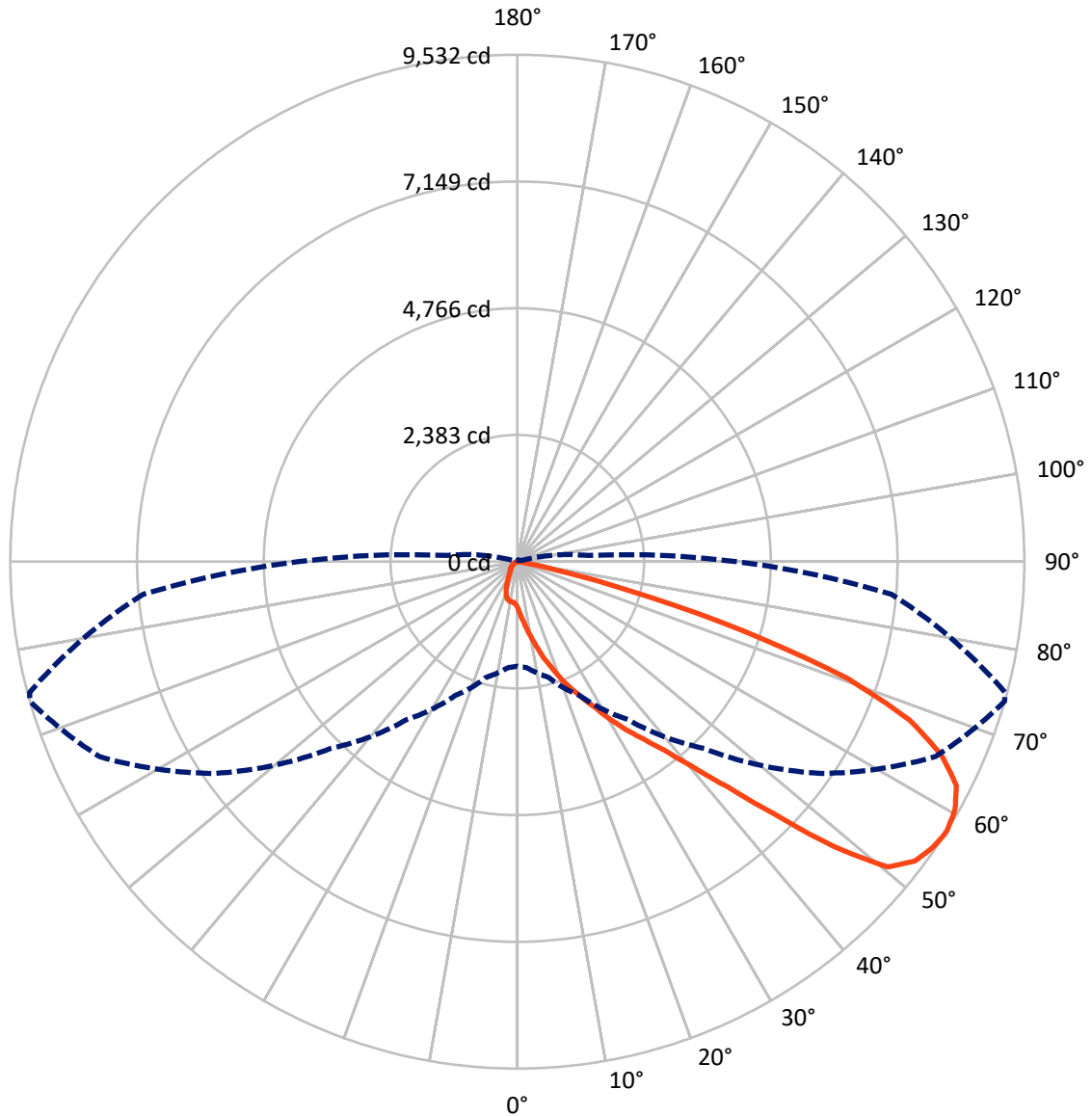
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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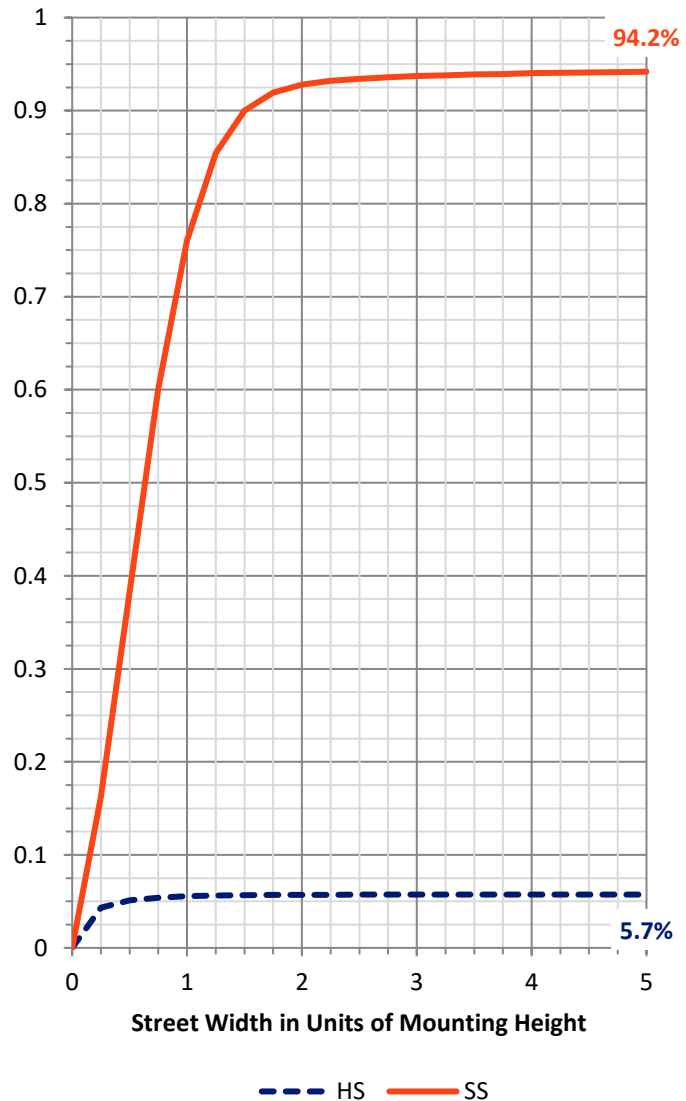
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	594.6	0.0	594.6
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	9714.4	0.0	9714.4
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	10309.0	0.0	10309.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	1.0
10°-20°	410.8	4.0
20°-30°	878.9	8.5
30°-40°	1615.4	15.7
40°-50°	2476.5	24.0
50°-60°	2619.8	25.4
60°-70°	1710.8	16.6
70°-80°	467.5	4.5
80°-90°	25.2	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°	10309.0	100.0
0°-180°	10309.0	100.0

**Coefficient of Utilization**

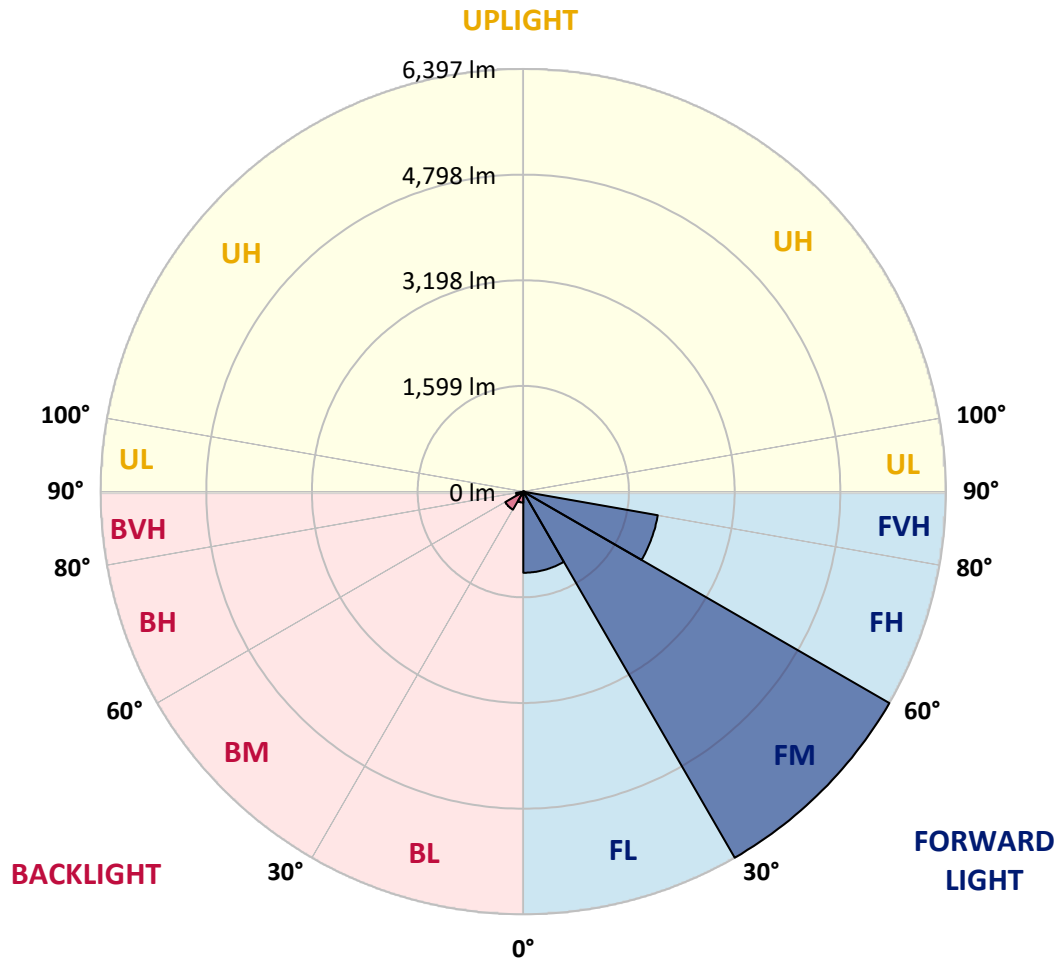


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.8	11.9			
FM (30°-60°)	6396.9	62.1			
FH (60°-80°)	2066.6	20.0			G2/5000
FVH (80°-90°)	23.1	0.2			G1/100
BL (0°-30°)	166.1	1.6	B1/500		
BM (30°-60°)	314.8	3.1	B1/1000		
BH (60°-80°)	111.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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°	74°	75°	85°
0°	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4
2.5°	1263.4	1252.0	1229.2	1221.4	1187.9	1136.0	1090.4	1029.2	980.8	975.8	917.5
5°	1691.9	1666.2	1655.6	1604.3	1523.9	1448.4	1318.9	1220.7	1107.5	1099.0	981.5
7.5°	2104.7	2069.1	2058.4	2010.0	1916.1	1797.2	1629.2	1450.6	1271.2	1254.8	1067.6
10°	2403.6	2408.6	2389.4	2357.4	2281.2	2160.2	1953.1	1708.9	1453.4	1432.8	1164.4
12.5°	2617.9	2617.1	2620.7	2620.0	2579.4	2487.6	2269.8	1988.7	1654.1	1613.6	1275.5
15°	2757.4	2759.5	2770.2	2807.2	2811.5	2754.5	2573.0	2256.3	1886.9	1836.3	1395.8
17.5°	2898.3	2913.2	2930.3	2965.2	2996.5	2973.7	2845.6	2535.3	2097.6	2059.8	1524.6
20°	3131.0	3151.7	3141.7	3163.1	3179.4	3181.6	3082.6	2792.9	2353.1	2289.7	1671.9
22.5°	3503.3	3502.6	3476.9	3438.5	3406.5	3405.1	3315.4	3057.7	2585.1	2523.9	1820.0
25°	3973.8	3975.9	3926.1	3816.5	3736.7	3639.2	3536.0	3289.8	2833.5	2758.1	1975.8
27.5°	4513.3	4499.7	4424.3	4273.4	4115.4	3948.8	3800.1	3559.5	3096.9	3034.2	2154.5
30°	4998.0	4993.0	4904.7	4720.4	4512.6	4345.3	4129.6	3897.6	3437.8	3360.9	2354.5
32.5°	5449.2	5456.4	5333.9	5143.2	4942.5	4749.6	4521.8	4220.7	3772.3	3663.4	2572.3
35°	5801.6	5808.7	5682.0	5523.3	5316.8	5156.7	4939.6	4565.2	4102.6	4010.8	2822.8
37.5°	5989.5	5998.7	5925.4	5805.8	5677.0	5596.6	5394.4	5008.7	4504.0	4448.5	3118.9
40°	6025.1	6035.7	6003.7	5971.7	5964.6	6022.2	5963.1	5531.1	5060.6	4973.8	3560.2
42.5°	5918.3	5932.5	5946.8	6017.9	6163.1	6374.5	6580.2	6240.0	5777.4	5660.6	4099.7
45°	5637.9	5636.4	5692.7	5877.0	6202.3	6653.5	7225.1	7127.6	6753.9	6615.1	4862.0
47.5°	5158.1	5151.0	5272.7	5535.4	6042.1	6704.8	7751.1	8205.2	8000.2	7872.1	5681.3
50°	4427.1	4462.0	4653.5	5020.0	5644.3	6549.6	7913.4	8912.0	9023.0	8887.0	6343.2
52.5°	3570.9	3569.5	3869.8	4367.4	5054.9	6208.0	7800.2	9040.1	9355.4	9251.5	6669.2
55°	2642.8	2661.3	2973.7	3475.5	4289.8	5584.5	7430.8	8908.4	9482.1	9408.8	6884.1
57°	1965.9	1998.6	2249.2	2780.1	3623.6	4967.4	6939.0	8672.8	9531.9	9492.0	7062.8
57.5°	1834.9	1836.3	2080.5	2563.0	3428.5	4730.4	6798.0	8574.6	9530.5	9508.4	7092.0
60°	1129.6	1165.2	1333.8	1732.4	2509.7	3691.9	5853.5	8010.2	9456.4	9488.5	7216.5
62.5°	676.2	691.1	800.7	1044.2	1617.8	2694.7	4790.1	7287.7	9263.6	9361.1	7208.0
65°	434.9	438.4	488.3	632.0	1011.4	1821.4	3691.2	6333.2	8764.6	8944.0	6926.1
67.5°	336.0	341.6	361.6	415.0	586.5	1134.5	2610.7	5314.7	7957.5	8188.8	6242.9
70°	298.2	301.1	308.2	325.3	387.9	640.6	1624.2	4151.7	6598.7	6664.2	4885.5
72.5°	243.4	251.3	273.3	279.0	307.5	400.0	903.9	2786.5	4433.6	4449.9	2733.2
75°	188.6	190.0	222.8	239.2	259.1	275.5	403.6	1405.0	2129.6	2015.7	1053.4
77.5°	140.9	147.3	162.3	182.9	211.4	197.2	180.8	529.5	661.2	649.1	306.1
80°	90.4	94.0	113.2	137.4	164.4	128.8	101.8	155.2	145.2	149.5	73.3
82.5°	45.6	46.3	72.6	111.7	104.6	64.8	64.1	63.3	54.1	53.4	34.2
85°	5.0	10.7	47.0	64.1	47.0	21.4	29.9	29.2	28.5	29.2	19.9
87.5°	0.7	0.7	7.8	9.3	6.4	7.1	8.5	9.3	11.4	10.7	8.5
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°	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4	863.4
2.5°	889.0	860.5	807.8	757.3	719.6	695.4	664.1	652.7	636.3	634.2	626.3
5°	927.4	873.3	781.5	708.9	650.5	606.4	568.0	536.0	510.3	504.6	507.5
7.5°	982.2	901.8	773.7	674.7	593.6	518.2	457.0	419.2	392.2	382.2	383.6
10°	1044.2	939.5	772.3	638.4	514.6	422.1	355.2	321.7	306.1	300.4	294.0
12.5°	1117.5	982.9	768.7	582.2	427.8	336.7	289.0	269.0	254.1	249.8	249.8
15°	1200.0	1029.2	751.6	512.5	347.3	278.3	246.3	230.6	225.6	221.4	221.4
17.5°	1286.2	1074.8	716.0	426.3	288.3	238.4	218.5	209.3	202.1	197.2	197.2
20°	1384.4	1119.6	659.1	350.2	243.4	212.8	197.2	186.5	180.8	176.5	175.1
22.5°	1477.6	1155.9	586.5	287.6	212.1	191.5	177.2	165.8	160.1	158.0	158.0
25°	1574.4	1178.0	498.9	237.7	193.6	173.7	158.0	148.8	143.8	142.4	141.6
27.5°	1668.4	1190.8	422.1	207.8	176.5	157.3	142.4	135.2	130.3	128.8	129.5
30°	1782.2	1192.9	347.3	186.5	161.6	141.6	128.1	121.7	118.9	117.4	116.7
32.5°	1897.6	1190.1	291.8	173.7	147.3	128.1	116.7	111.7	109.6	107.5	107.5
35°	2027.1	1175.1	248.4	160.9	133.8	116.7	106.8	102.5	99.6	97.5	96.8
37.5°	2188.0	1167.3	223.5	146.6	121.7	106.1	96.8	92.5	90.4	87.5	86.8
40°	2441.3	1202.2	215.7	133.8	109.6	96.1	87.5	82.6	79.7	76.9	76.2
42.5°	2757.4	1263.4	202.9	121.0	98.9	86.8	78.3	72.6	67.6	64.1	62.6
45°	3166.6	1343.8	182.9	107.5	89.7	76.9	69.0	61.9	55.5	52.7	52.0
47.5°	3595.8	1421.4	165.1	96.8	79.7	68.3	59.8	52.0	46.3	44.1	43.4
50°	3859.2	1437.0	153.7	84.7	69.8	59.1	50.5	43.4	39.9	37.7	37.7
52.5°	3979.5	1412.1	138.1	74.0	60.5	52.0	43.4	37.7	35.6	34.2	33.5
55°	4063.4	1373.7	117.4	64.1	52.0	44.1	38.4	34.2	31.3	29.9	29.2
57°	4112.6	1321.7	101.8	56.2	44.8	38.4	34.2	30.6	27.8	24.9	24.9
57.5°	4114.7	1301.8	97.5	55.5	42.7	37.0	33.5	29.9	26.3	23.5	22.8
60°	4051.3	1165.2	78.3	47.0	34.2	31.3	27.8	23.5	18.5	15.7	14.9
62.5°	3847.8	991.5	64.8	39.9	27.8	24.2	19.9	17.8	12.8	9.3	9.3
65°	3539.6	804.3	55.5	32.0	22.8	17.8	13.5	12.8	7.8	4.3	3.6
67.5°	3094.0	626.3	47.0	26.3	19.2	12.8	9.3	8.5	4.3	1.4	0.0
70°	2357.4	427.1	39.1	21.4	14.2	9.3	6.4	5.0	2.8	0.7	0.0
72.5°	1358.8	234.9	32.7	16.4	10.7	7.1	5.0	2.8	2.8	0.0	0.0
75°	485.4	101.1	24.9	12.1	8.5	5.7	3.6	1.4	2.1	0.7	0.0
77.5°	154.5	54.1	16.4	9.3	7.1	4.3	2.8	1.4	1.4	0.7	0.0
80°	45.6	28.5	10.0	7.8	5.0	3.6	2.1	0.7	1.4	0.7	0.0
82.5°	24.9	14.2	7.8	5.7	5.0	2.8	2.1	0.7	0.7	0.7	0.0
85°	12.8	8.5	6.4	5.7	5.0	2.8	2.1	0.7	0.0	0.7	0.7
87.5°	7.1	6.4	6.4	5.7	5.0	3.6	2.1	0.7	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)