

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: P651719

Luminaire Tested: **GALN-SA2A-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6336.9 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

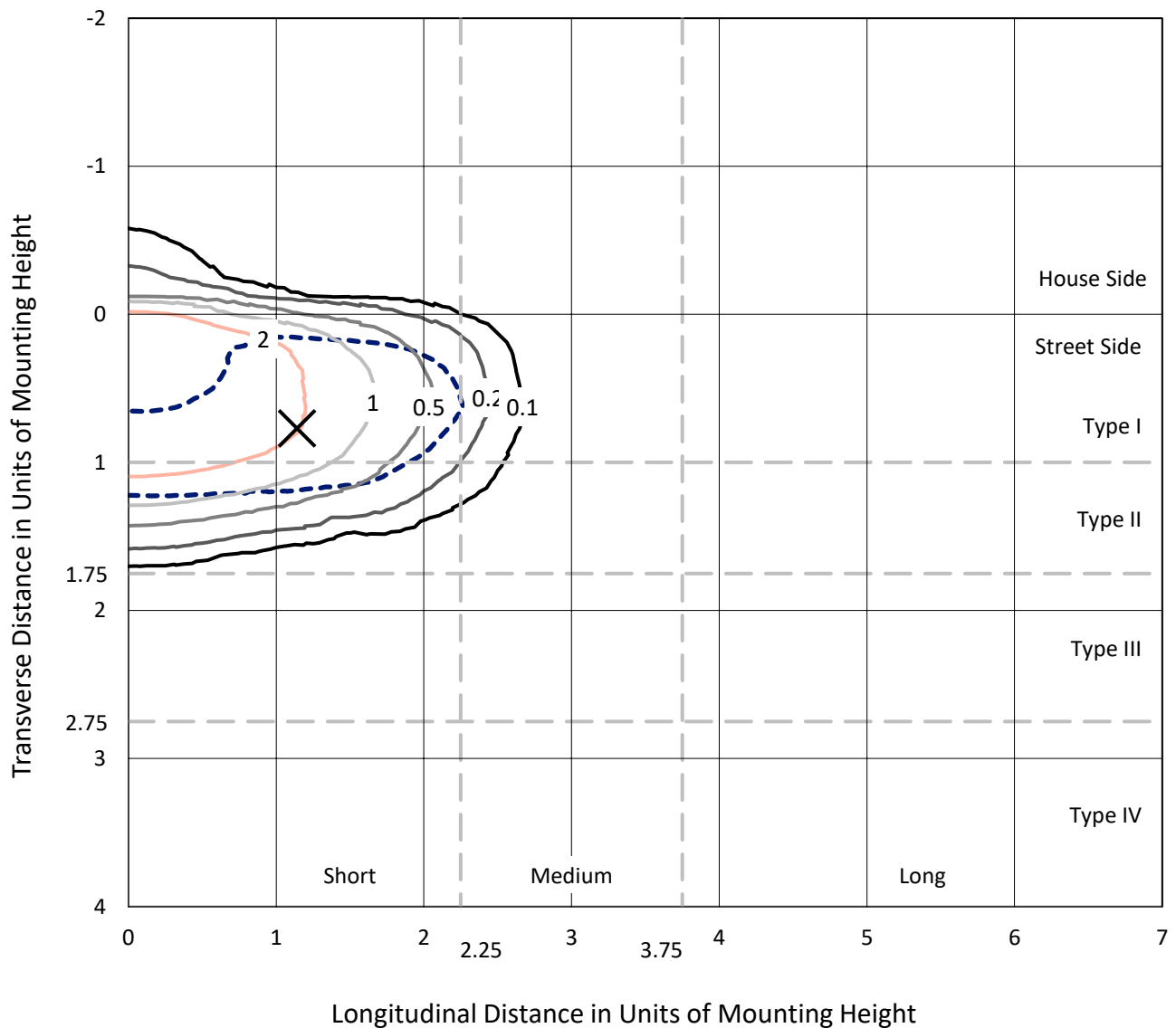
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

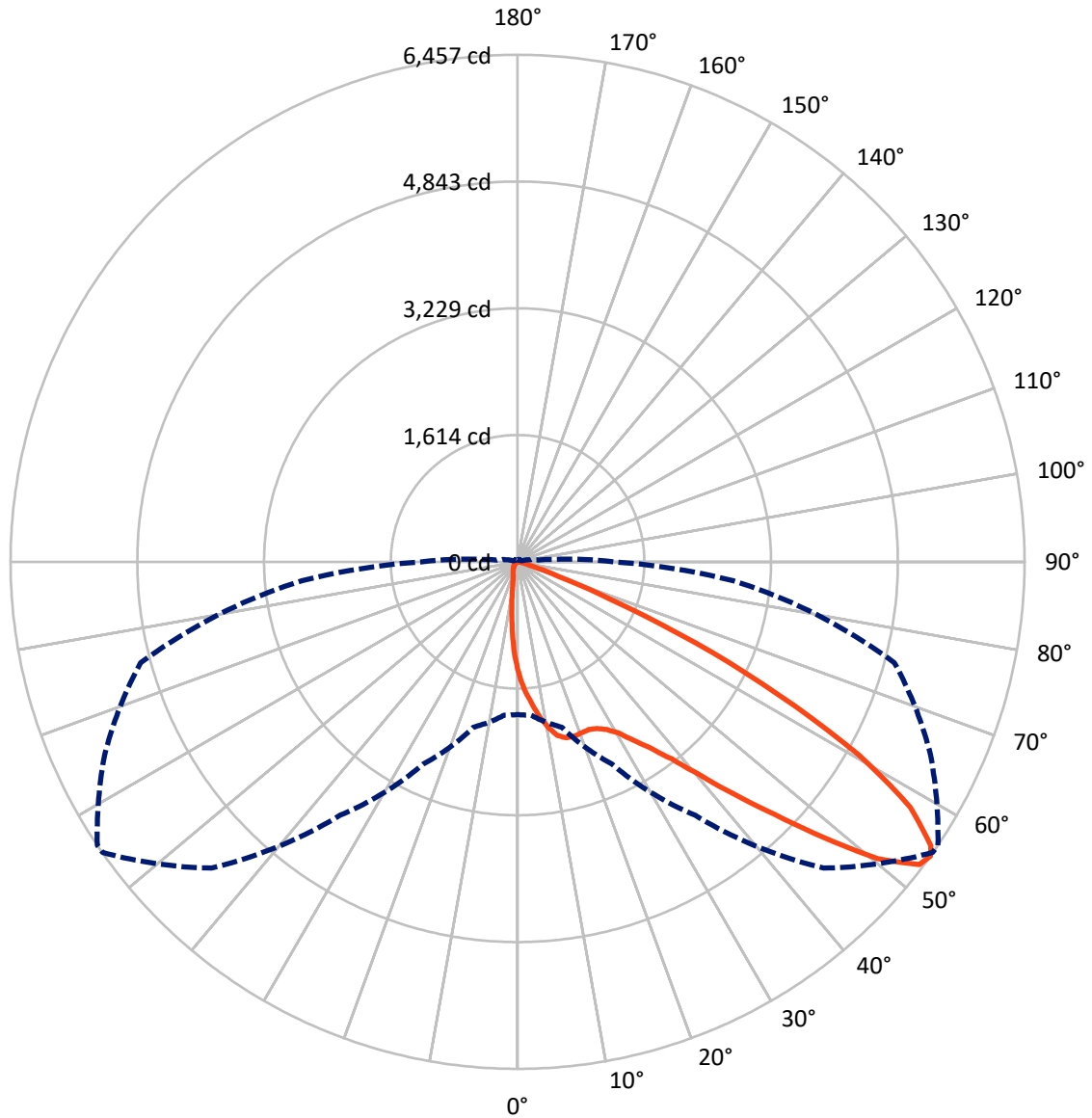
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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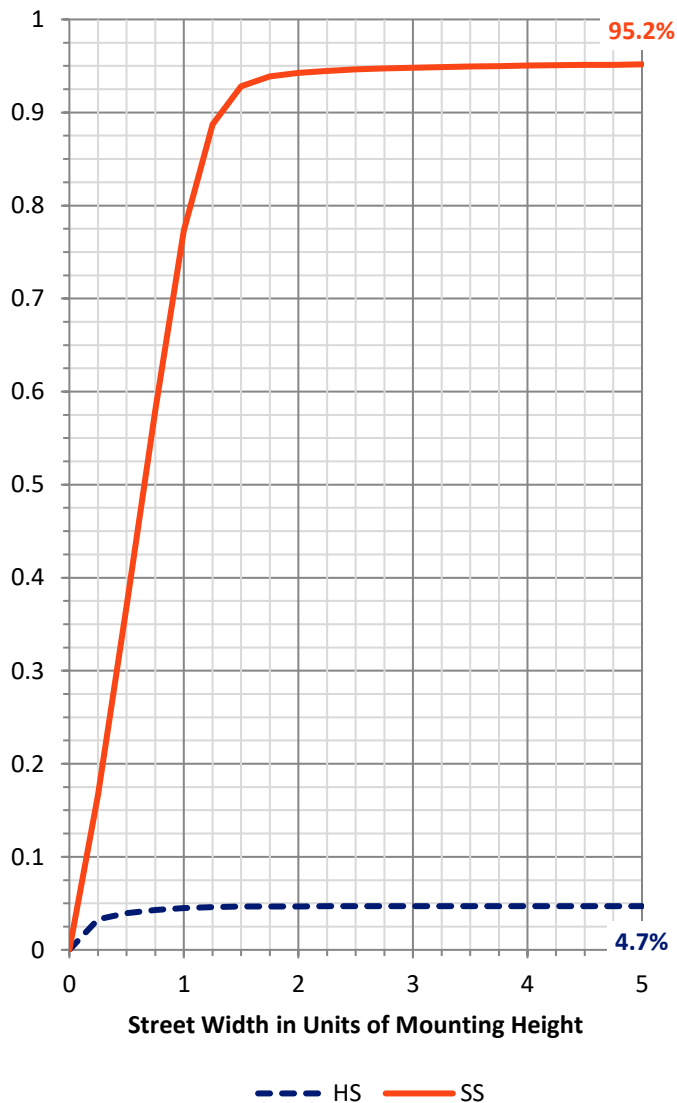
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	299.7	0.0	299.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	6037.3	0.0	6037.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	6336.9	0.0	6336.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.4	2.0
10°-20°	336.3	5.3
20°-30°	582.5	9.2
30°-40°	1005.4	15.9
40°-50°	1711.3	27.0
50°-60°	1693.6	26.7
60°-70°	773.0	12.2
70°-80°	99.3	1.6
80°-90°	11.2	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°	6336.9	100.0
0°-180°	6336.9	100.0

**Coefficient of Utilization**



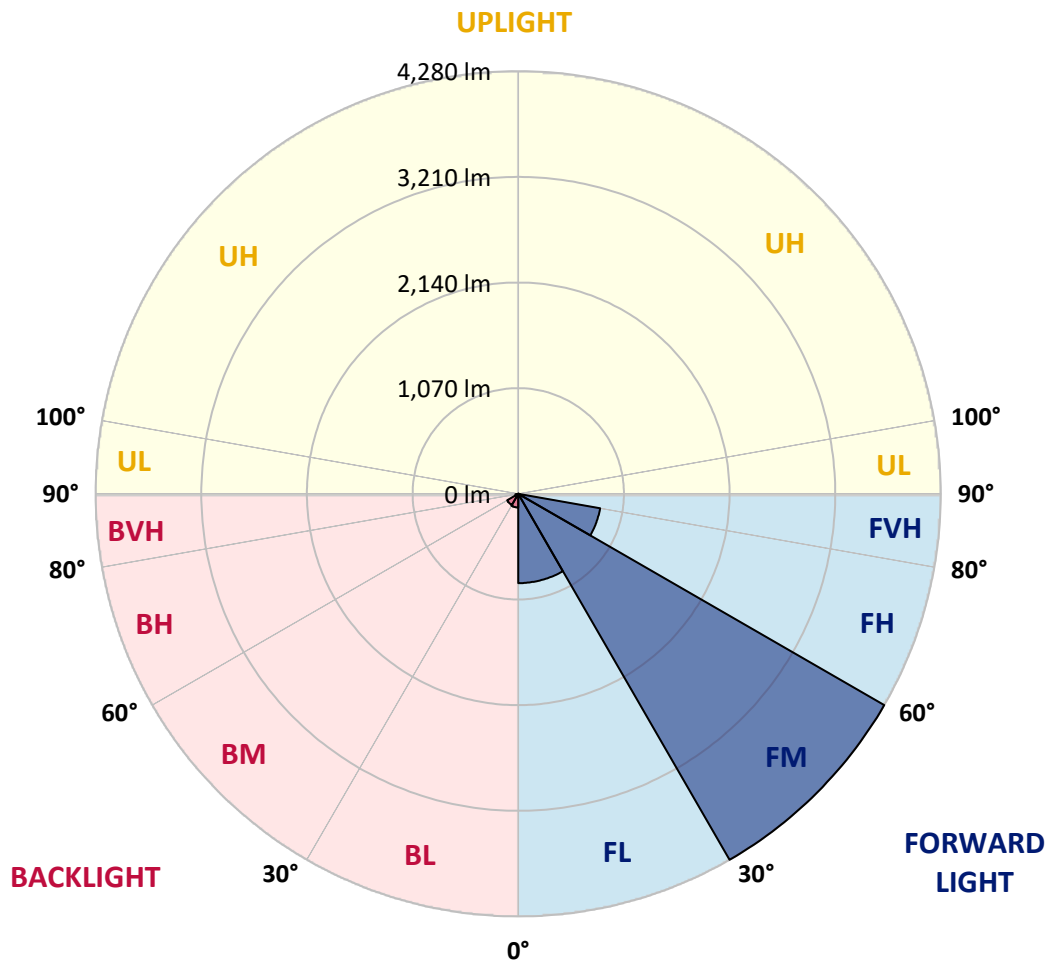
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.6	14.3			
FM (30°-60°)	4280.4	67.5			
FH (60°-80°)	842.2	13.3			G1/1800
FVH (80°-90°)	10.0	0.2			G0/10
BL (0°-30°)	138.6	2.2	B1/500		
BM (30°-60°)	129.9	2.0	B0/220		
BH (60°-80°)	30.0	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1789.2	1776.9	1759.7	1746.5	1715.3	1670.4	1623.0	1623.0	1577.2	1513.5	1448.5
5°	2063.7	2055.6	2038.9	2004.7	1969.7	1906.8	1811.5	1794.8	1713.1	1597.7	1476.3
7.5°	2175.3	2179.2	2180.0	2171.0	2154.4	2092.4	1997.9	1986.4	1855.9	1701.2	1512.6
10°	2068.4	2087.3	2105.6	2142.8	2195.4	2210.4	2156.9	2145.0	2016.7	1806.0	1552.0
12.5°	1909.4	1919.7	1929.9	1988.5	2094.1	2215.1	2271.1	2270.6	2162.0	1910.2	1602.0
15°	1835.4	1844.4	1845.2	1871.3	1962.8	2139.0	2319.8	2326.2	2304.0	2038.9	1655.8
17.5°	1850.8	1858.1	1852.1	1858.5	1906.4	2055.2	2314.3	2335.6	2419.1	2162.5	1704.6
20°	1951.3	1965.4	1942.3	1924.4	1938.9	2032.9	2295.4	2325.4	2500.2	2283.1	1749.0
22.5°	2131.7	2139.4	2110.3	2061.1	2035.5	2079.5	2290.3	2319.8	2569.5	2381.8	1774.7
25°	2332.3	2329.7	2297.6	2242.4	2188.5	2173.6	2324.1	2350.6	2626.8	2470.8	1782.4
27.5°	2532.8	2540.4	2486.6	2418.1	2353.6	2314.7	2399.8	2419.5	2691.4	2572.1	1791.8
30°	2765.7	2753.3	2700.4	2622.1	2548.1	2493.8	2521.7	2527.2	2780.3	2706.3	1816.6
32.5°	3068.9	3034.7	2975.2	2838.5	2785.4	2693.5	2700.4	2707.2	2888.4	2839.3	1846.5
35°	3480.1	3478.5	3362.1	3177.9	3048.8	2934.6	2904.7	2910.3	3052.2	3036.8	1912.8
37.5°	3975.2	3982.1	3849.6	3664.0	3426.3	3245.0	3183.4	3184.3	3301.0	3309.6	2013.7
40°	4378.4	4396.4	4317.3	4192.0	3957.3	3673.8	3570.4	3561.0	3650.8	3640.1	2157.8
42.5°	4552.0	4568.6	4598.2	4641.8	4512.6	4278.8	4034.7	4047.5	4074.9	4000.0	2319.4
45°	4466.9	4493.5	4609.3	4878.6	5000.1	4921.4	4630.2	4585.4	4469.5	4391.3	2481.9
47.5°	4112.5	4177.1	4370.8	4819.2	5244.2	5510.1	5302.3	5242.9	4864.5	4676.9	2585.3
50°	3529.8	3533.6	3803.4	4376.7	5117.7	5881.6	5988.5	5944.1	5232.6	4837.2	2637.5
52.5°	2558.8	2643.0	2890.2	3554.2	4569.6	5825.2	6425.9	6407.5	5612.3	4919.3	2712.7
54°	1945.3	1961.5	2181.3	2840.1	3939.7	5515.3	6452.8	6457.1	5800.9	4968.9	2757.2
55°	1594.7	1555.8	1786.7	2419.5	3510.1	5241.2	6364.8	6385.3	5885.5	4994.5	2790.1
57.5°	755.9	756.3	932.9	1276.2	2198.4	4069.8	5826.5	5899.2	5894.9	5038.5	2891.4
60°	382.7	385.2	424.1	589.1	1086.0	2705.5	4817.5	4990.7	5441.3	5045.0	2924.8
62.5°	267.6	264.7	258.3	283.4	457.0	1375.0	3586.6	3737.2	4623.0	4800.8	2818.8
65°	229.2	222.8	204.8	200.9	230.9	547.7	2233.9	2479.3	3529.8	4157.0	2516.9
67.5°	195.8	193.3	177.0	167.2	163.3	238.6	1152.7	1281.8	2412.6	2988.1	1906.4
70°	166.3	165.0	155.2	142.8	132.1	142.8	427.6	529.7	1344.6	1608.8	899.5
72.5°	135.1	136.4	138.1	122.3	111.2	101.3	182.6	212.5	562.6	575.1	314.7
75°	118.4	117.2	117.2	106.5	92.8	75.3	100.5	108.2	172.3	159.9	73.1
77.5°	83.3	80.4	94.0	87.6	77.4	53.4	57.3	60.7	71.4	61.1	34.2
80°	57.7	57.7	60.3	78.6	69.7	38.9	35.1	37.6	42.3	36.3	19.7
82.5°	32.5	33.4	39.4	41.9	40.6	26.1	23.1	23.5	28.3	24.8	12.4
85°	3.9	6.4	22.6	22.2	16.7	11.5	12.9	13.3	17.5	15.4	7.2
87.5°	0.4	0.8	4.7	6.0	4.3	4.7	4.7	4.7	6.0	6.8	5.1
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°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1413.5	1380.9	1303.6	1213.8	1156.5	1063.3	984.6	927.8	913.7	886.2	894.4
5°	1411.7	1344.2	1186.4	1019.7	841.8	709.3	610.6	532.7	498.5	475.8	460.0
7.5°	1412.6	1307.0	1053.9	788.4	575.9	445.9	354.4	307.0	275.3	262.1	263.8
10°	1415.2	1265.1	900.0	584.0	388.6	288.1	232.1	209.5	198.8	197.1	196.6
12.5°	1421.1	1219.4	752.9	433.5	271.9	209.5	188.1	180.4	177.0	177.0	175.7
15°	1427.5	1168.9	630.6	322.4	209.5	180.0	170.1	166.3	164.2	164.2	163.7
17.5°	1427.5	1110.7	516.5	250.1	180.4	165.4	157.8	152.6	151.0	151.0	150.5
20°	1418.6	1043.2	415.1	201.3	163.7	151.8	144.1	138.5	136.4	135.6	135.1
22.5°	1387.4	953.0	330.5	173.2	150.0	139.8	129.9	123.5	121.9	121.0	121.4
25°	1331.8	851.3	261.6	152.2	137.7	125.3	116.7	112.0	110.3	110.3	110.8
27.5°	1274.5	744.8	207.4	136.4	122.7	111.6	104.8	101.8	101.3	102.6	103.0
30°	1221.5	637.9	168.0	123.5	109.4	100.1	95.4	94.4	94.4	94.9	95.4
32.5°	1162.5	544.3	140.7	112.4	98.7	90.7	88.1	88.1	88.9	88.9	89.8
35°	1125.3	463.9	123.5	101.8	90.7	83.8	82.1	82.5	83.8	85.5	86.4
37.5°	1105.2	399.7	112.4	93.2	82.9	78.2	76.5	77.4	80.4	83.3	83.8
40°	1106.9	351.5	103.4	86.0	77.0	71.8	70.6	73.1	76.1	79.1	79.6
42.5°	1125.7	315.5	94.9	77.4	71.8	64.6	64.2	66.7	68.0	71.0	71.4
45°	1148.0	289.5	86.0	68.4	62.4	56.0	56.4	58.5	60.3	65.0	65.9
47.5°	1154.8	271.5	75.7	58.1	51.3	49.2	49.6	50.9	54.3	58.5	59.0
50°	1162.5	260.4	65.9	49.2	43.6	43.1	43.6	44.5	46.6	48.3	47.9
52.5°	1195.4	260.0	57.7	42.7	37.2	38.0	38.5	38.0	36.3	33.8	32.9
54°	1226.2	261.2	53.9	39.8	34.2	35.5	35.1	32.9	28.7	26.1	24.8
55°	1251.0	262.5	51.7	37.6	32.5	32.9	33.4	29.1	23.5	20.9	20.1
57.5°	1299.7	259.5	46.6	32.9	28.7	26.9	26.5	19.3	12.9	11.1	10.3
60°	1275.4	234.3	42.3	28.3	24.4	21.8	18.0	10.7	6.4	4.7	4.7
62.5°	1179.6	198.8	37.6	23.1	20.1	16.7	9.4	6.0	3.0	1.7	1.3
65°	1055.2	167.2	33.8	18.4	15.8	10.7	5.1	3.9	1.3	0.0	0.0
67.5°	784.6	124.0	28.7	14.5	11.9	6.8	3.4	2.1	0.4	0.0	0.0
70°	363.4	75.7	24.4	11.1	8.6	5.1	2.6	1.3	0.0	0.0	0.0
72.5°	104.3	47.4	20.1	8.2	6.0	4.3	2.1	0.8	0.4	0.0	0.0
75°	36.3	38.0	15.0	6.0	4.7	3.0	1.7	0.8	0.4	0.0	0.0
77.5°	21.8	30.8	9.4	5.1	3.9	2.6	1.7	0.8	0.4	0.4	0.0
80°	12.4	20.5	6.0	4.3	3.4	2.1	1.3	0.8	0.4	0.4	0.0
82.5°	6.8	9.8	4.7	3.9	3.0	2.1	1.3	0.8	0.4	0.4	0.4
85°	5.6	5.1	3.9	3.4	2.6	1.7	1.3	0.4	0.0	0.0	0.0
87.5°	4.3	3.4	3.4	3.4	2.6	1.7	1.3	0.4	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)