

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: P450164

Luminaire Tested: **GALN-SA1A-722-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450164  
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-SA1A-722-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2787 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

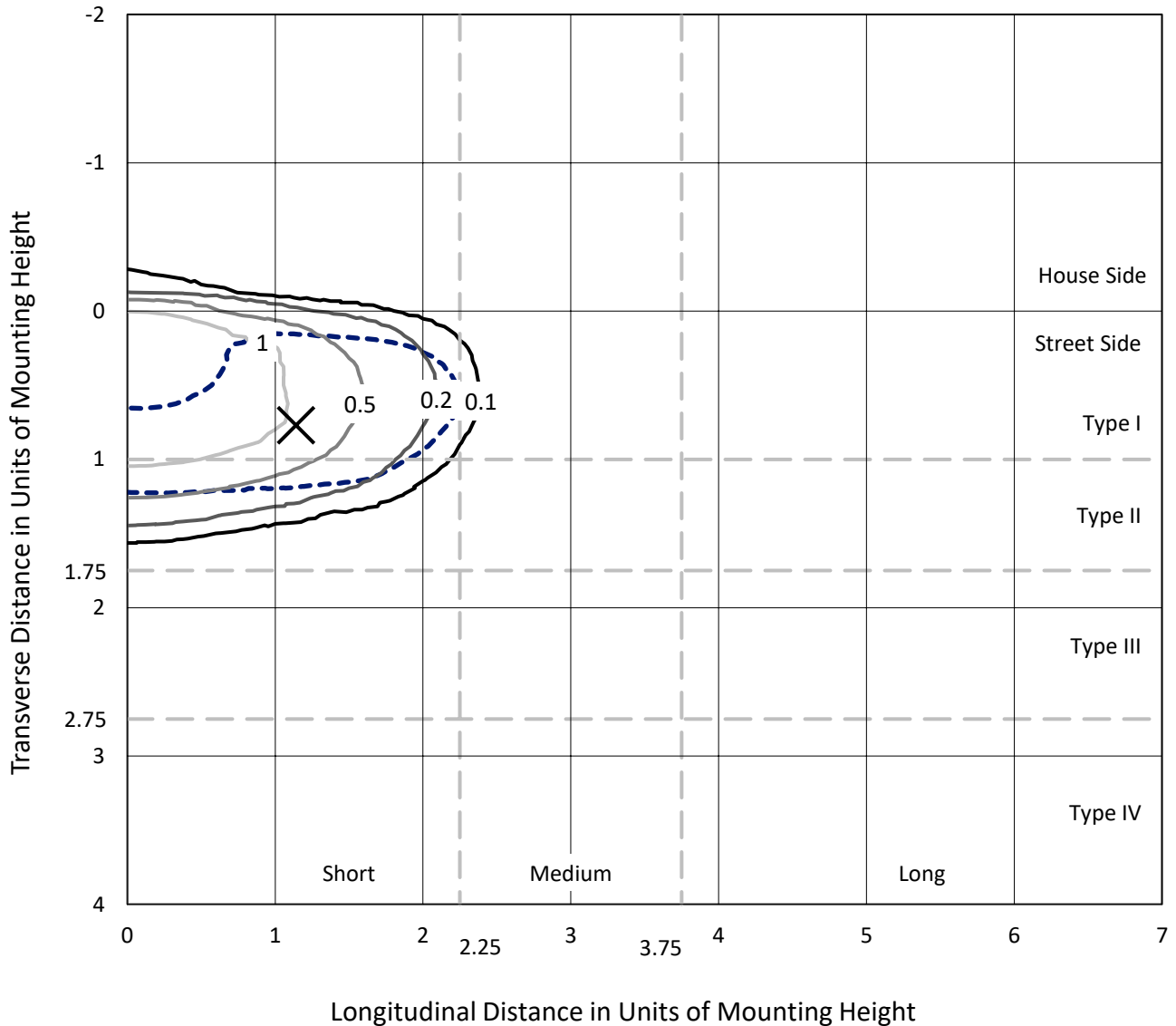
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

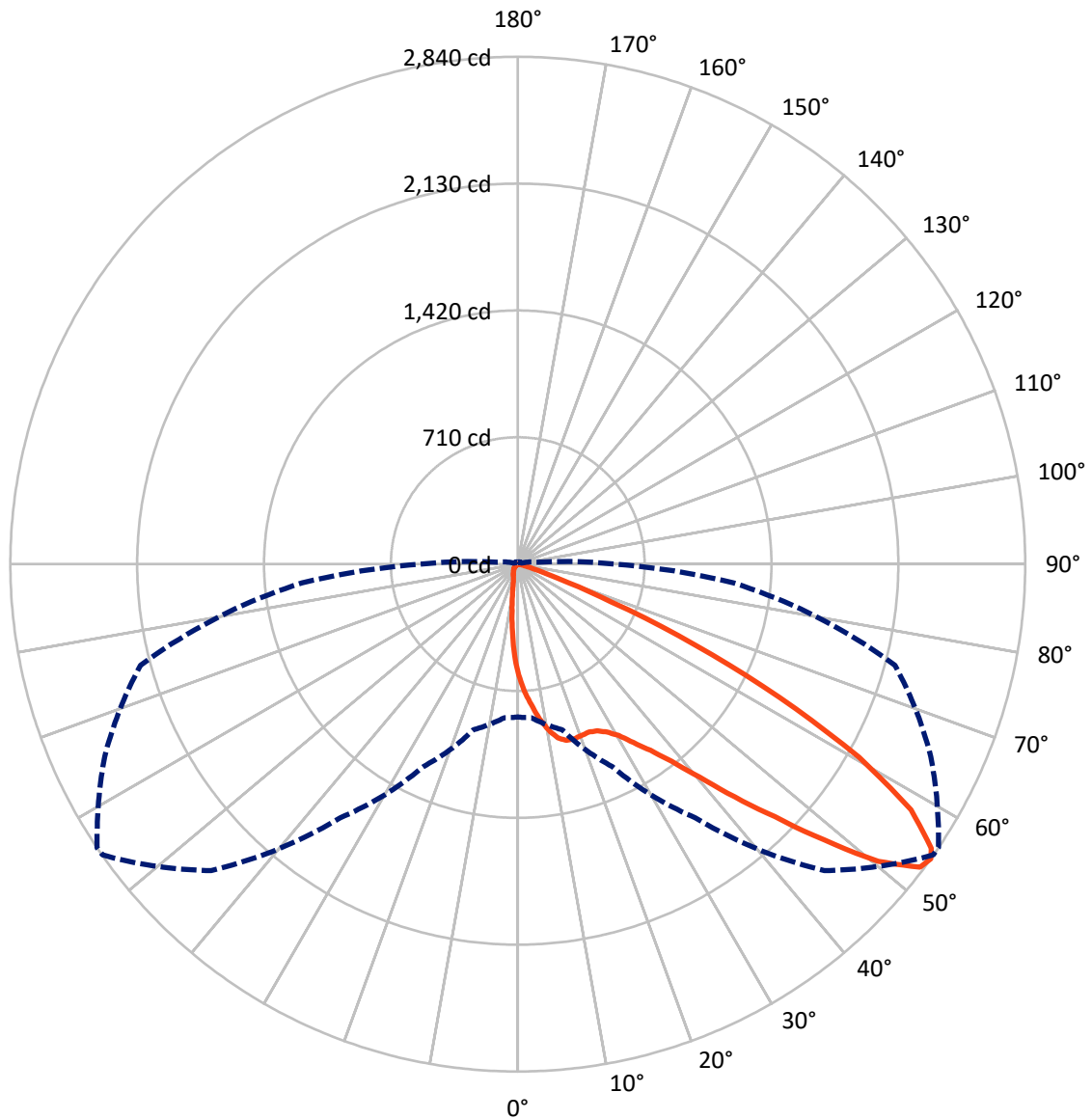
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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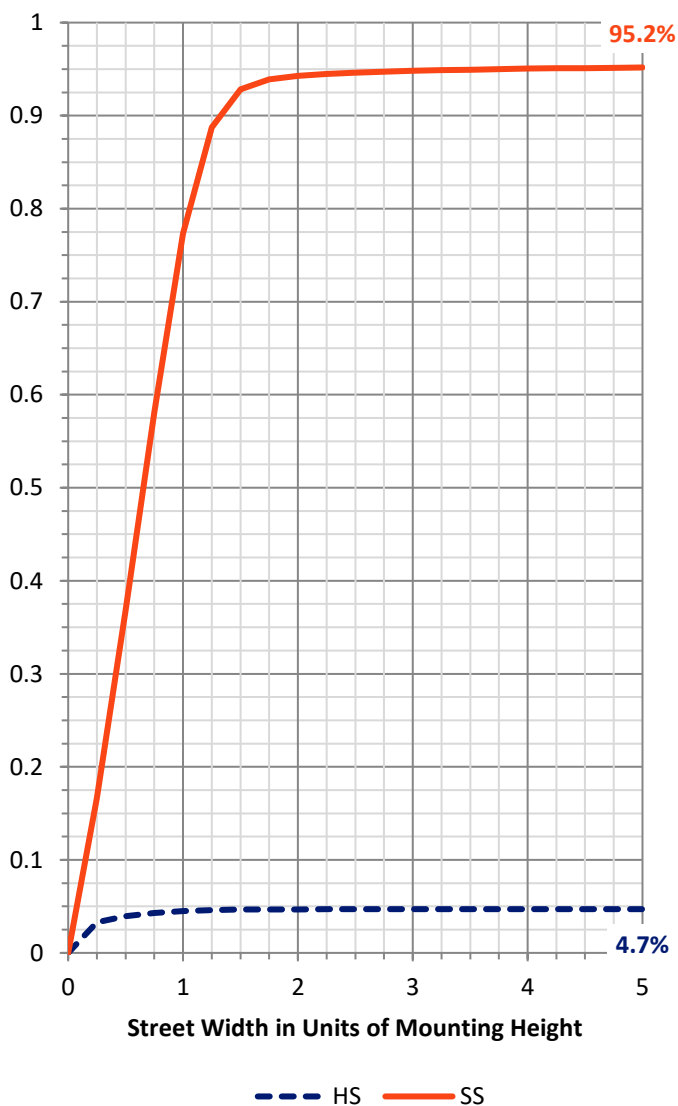
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	131.8	0.0	131.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	2655.2	0.0	2655.2
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	2787.0	0.0	2787.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	2.0
10°-20°	147.9	5.3
20°-30°	256.2	9.2
30°-40°	442.2	15.9
40°-50°	752.6	27.0
50°-60°	744.8	26.7
60°-70°	340.0	12.2
70°-80°	43.7	1.6
80°-90°	4.9	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°	2787.0	100.0
0°-180°	2787.0	100.0

**Coefficient of Utilization**



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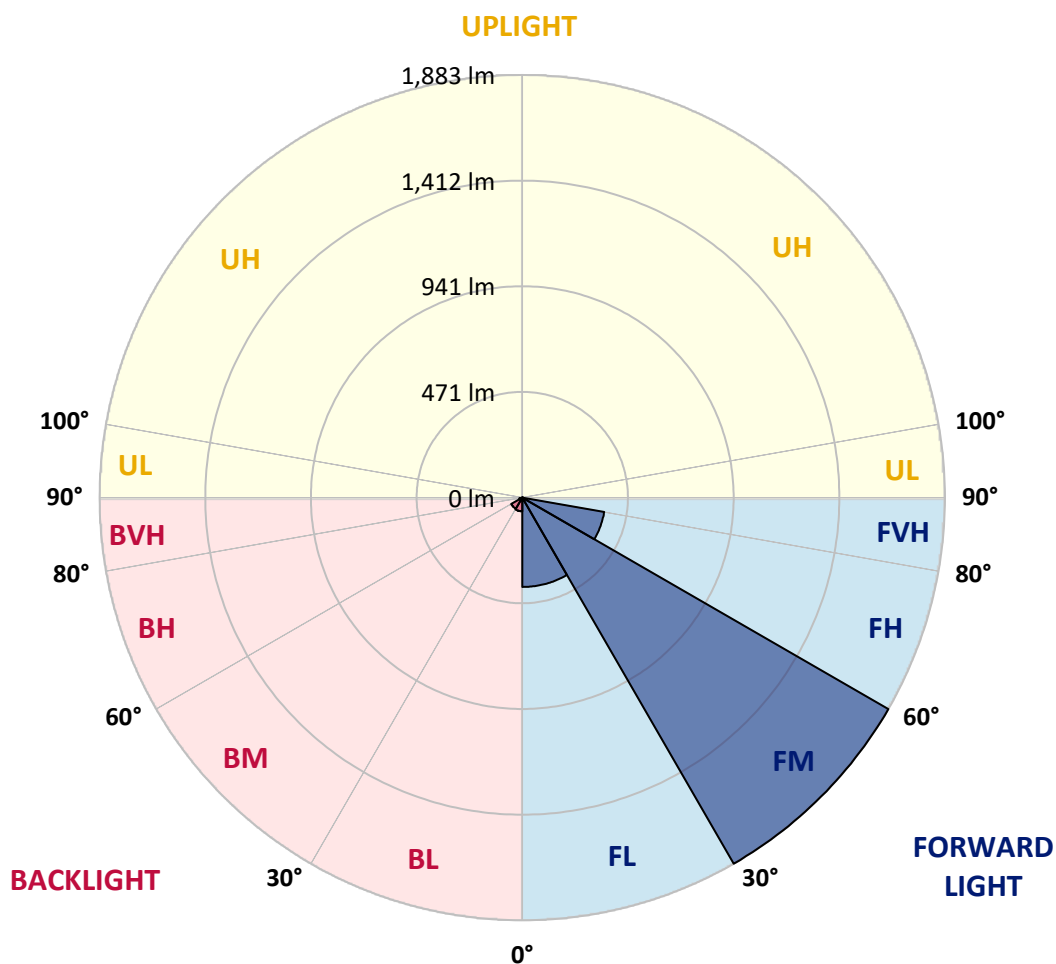
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.9	14.3			
FM (30°-60°)	1882.5	67.5			
FH (60°-80°)	370.4	13.3			G0/660
FVH (80°-90°)	4.4	0.2			G0/10
BL (0°-30°)	60.9	2.2	B0/110		
BM (30°-60°)	57.1	2.0	B0/220		
BH (60°-80°)	13.2	0.5	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2
2.5°	786.9	781.5	773.9	768.1	754.4	734.6	713.8	713.8	693.7	665.6	637.1
5°	907.6	904.1	896.7	881.7	866.3	838.6	796.7	789.4	753.4	702.7	649.3
7.5°	956.7	958.4	958.8	954.8	947.5	920.2	878.7	873.6	816.2	748.2	665.3
10°	909.7	918.0	926.1	942.4	965.5	972.1	948.6	943.4	886.9	794.2	682.6
12.5°	839.8	844.3	848.8	874.5	921.0	974.2	998.8	998.6	950.9	840.1	704.6
15°	807.2	811.2	811.5	823.0	863.3	940.7	1020.3	1023.1	1013.3	896.7	728.3
17.5°	814.0	817.2	814.6	817.4	838.4	903.9	1017.8	1027.2	1063.9	951.1	749.7
20°	858.2	864.4	854.2	846.3	852.7	894.1	1009.5	1022.7	1099.6	1004.1	769.2
22.5°	937.5	940.9	928.1	906.5	895.2	914.6	1007.3	1020.3	1130.1	1047.5	780.5
25°	1025.7	1024.6	1010.5	986.2	962.5	956.0	1022.1	1033.8	1155.3	1086.6	783.9
27.5°	1113.9	1117.3	1093.6	1063.5	1035.1	1018.0	1055.4	1064.1	1183.7	1131.2	788.0
30°	1216.4	1210.9	1187.6	1153.2	1120.7	1096.8	1109.0	1111.5	1222.8	1190.2	799.0
32.5°	1349.7	1334.7	1308.5	1248.3	1225.0	1184.6	1187.6	1190.6	1270.3	1248.7	812.1
35°	1530.6	1529.8	1478.7	1397.6	1340.9	1290.7	1277.5	1279.9	1342.4	1335.6	841.3
37.5°	1748.3	1751.3	1693.0	1611.4	1506.9	1427.2	1400.1	1400.5	1451.8	1455.6	885.6
40°	1925.6	1933.5	1898.8	1843.7	1740.4	1615.8	1570.3	1566.1	1605.6	1600.9	949.0
42.5°	2002.0	2009.3	2022.3	2041.5	1984.7	1881.8	1774.5	1780.1	1792.1	1759.2	1020.1
45°	1964.6	1976.2	2027.2	2145.6	2199.0	2164.4	2036.4	2016.6	1965.7	1931.3	1091.5
47.5°	1808.7	1837.1	1922.3	2119.5	2306.4	2423.4	2332.0	2305.8	2139.4	2056.9	1137.0
50°	1552.4	1554.1	1672.7	1924.9	2250.7	2586.8	2633.8	2614.2	2301.3	2127.4	1160.0
52.5°	1125.4	1162.4	1271.1	1563.1	2009.7	2561.9	2826.1	2818.0	2468.3	2163.5	1193.1
54°	855.5	862.7	959.3	1249.1	1732.7	2425.6	2838.0	2839.9	2551.2	2185.3	1212.6
55°	701.4	684.3	785.8	1064.1	1543.7	2305.1	2799.2	2808.3	2588.5	2196.6	1227.1
57.5°	332.4	332.6	410.3	561.3	966.9	1789.9	2562.5	2594.5	2592.6	2216.0	1271.7
60°	168.3	169.4	186.5	259.1	477.6	1189.9	2118.8	2194.9	2393.1	2218.8	1286.3
62.5°	117.7	116.4	113.6	124.7	201.0	604.7	1577.4	1643.6	2033.2	2111.4	1239.7
65°	100.8	98.0	90.1	88.4	101.5	240.9	982.5	1090.4	1552.4	1828.2	1106.9
67.5°	86.1	85.0	77.8	73.5	71.8	104.9	506.9	563.7	1061.1	1314.2	838.4
70°	73.1	72.6	68.3	62.8	58.1	62.8	188.0	233.0	591.4	707.6	395.6
72.5°	59.4	60.0	60.7	53.8	48.9	44.6	80.3	93.5	247.5	252.9	138.4
75°	52.1	51.5	51.5	46.8	40.8	33.1	44.2	47.6	75.8	70.3	32.2
77.5°	36.7	35.4	41.4	38.5	34.0	23.5	25.2	26.7	31.4	26.9	15.0
80°	25.4	25.4	26.5	34.6	30.6	17.1	15.4	16.5	18.6	16.0	8.6
82.5°	14.3	14.7	17.3	18.4	17.9	11.5	10.2	10.3	12.4	10.9	5.5
85°	1.7	2.8	10.0	9.8	7.3	5.1	5.6	5.8	7.7	6.8	3.2
87.5°	0.2	0.4	2.1	2.6	1.9	2.1	2.1	2.1	2.6	3.0	2.3
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°	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2
2.5°	621.6	607.3	573.3	533.8	508.6	467.6	433.0	408.0	401.8	389.8	393.4
5°	620.9	591.2	521.8	448.5	370.2	311.9	268.5	234.3	219.2	209.3	202.3
7.5°	621.3	574.8	463.5	346.7	253.3	196.1	155.9	135.0	121.1	115.3	116.0
10°	622.4	556.4	395.8	256.9	170.9	126.7	102.1	92.1	87.4	86.7	86.5
12.5°	625.0	536.3	331.1	190.7	119.6	92.1	82.7	79.3	77.8	77.8	77.3
15°	627.8	514.1	277.3	141.8	92.1	79.2	74.8	73.1	72.2	72.2	72.0
17.5°	627.8	488.5	227.1	110.0	79.3	72.8	69.4	67.1	66.4	66.4	66.2
20°	623.9	458.8	182.6	88.6	72.0	66.8	63.4	60.9	60.0	59.6	59.4
22.5°	610.2	419.1	145.3	76.2	66.0	61.5	57.2	54.3	53.6	53.2	53.4
25°	585.7	374.4	115.1	66.9	60.5	55.1	51.3	49.3	48.5	48.5	48.7
27.5°	560.5	327.6	91.2	60.0	54.0	49.1	46.1	44.8	44.6	45.1	45.3
30°	537.2	280.5	73.9	54.3	48.1	44.0	41.9	41.6	41.6	41.7	41.9
32.5°	511.3	239.4	61.9	49.5	43.4	39.9	38.7	38.7	39.1	39.1	39.5
35°	494.9	204.0	54.3	44.8	39.9	36.9	36.1	36.3	36.9	37.6	38.0
37.5°	486.1	175.8	49.5	41.0	36.5	34.4	33.7	34.0	35.4	36.7	36.9
40°	486.8	154.6	45.5	37.8	33.8	31.6	31.0	32.2	33.5	34.8	35.0
42.5°	495.1	138.8	41.7	34.0	31.6	28.4	28.2	29.3	29.9	31.2	31.4
45°	504.9	127.3	37.8	30.1	27.5	24.6	24.8	25.8	26.5	28.6	29.0
47.5°	507.9	119.4	33.3	25.6	22.6	21.6	21.8	22.4	23.9	25.8	25.9
50°	511.3	114.5	29.0	21.6	19.2	19.0	19.2	19.6	20.5	21.2	21.1
52.5°	525.7	114.3	25.4	18.8	16.4	16.7	16.9	16.7	16.0	14.9	14.5
54°	539.3	114.9	23.7	17.5	15.0	15.6	15.4	14.5	12.6	11.5	10.9
55°	550.2	115.5	22.8	16.5	14.3	14.5	14.7	12.8	10.3	9.2	8.8
57.5°	571.6	114.1	20.5	14.5	12.6	11.8	11.7	8.5	5.6	4.9	4.5
60°	560.9	103.0	18.6	12.4	10.7	9.6	7.9	4.7	2.8	2.1	2.1
62.5°	518.8	87.4	16.5	10.2	8.8	7.3	4.1	2.6	1.3	0.8	0.6
65°	464.1	73.5	14.9	8.1	7.0	4.7	2.3	1.7	0.6	0.0	0.0
67.5°	345.0	54.5	12.6	6.4	5.3	3.0	1.5	0.9	0.2	0.0	0.0
70°	159.8	33.3	10.7	4.9	3.8	2.3	1.1	0.6	0.0	0.0	0.0
72.5°	45.9	20.9	8.8	3.6	2.6	1.9	0.9	0.4	0.2	0.0	0.0
75°	16.0	16.7	6.6	2.6	2.1	1.3	0.8	0.4	0.2	0.0	0.0
77.5°	9.6	13.5	4.1	2.3	1.7	1.1	0.8	0.4	0.2	0.2	0.0
80°	5.5	9.0	2.6	1.9	1.5	0.9	0.6	0.4	0.2	0.2	0.0
82.5°	3.0	4.3	2.1	1.7	1.3	0.9	0.6	0.4	0.2	0.2	0.2
85°	2.4	2.3	1.7	1.5	1.1	0.8	0.6	0.2	0.0	0.0	0.0
87.5°	1.9	1.5	1.5	1.5	1.1	0.8	0.6	0.2	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)