

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: P648199

Luminaire Tested: **GALN-SA1B-835-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648199  
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-SA1B-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA 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: 3693.4 lumens  
Efficiency: N/A  
Efficacy: 83.9 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

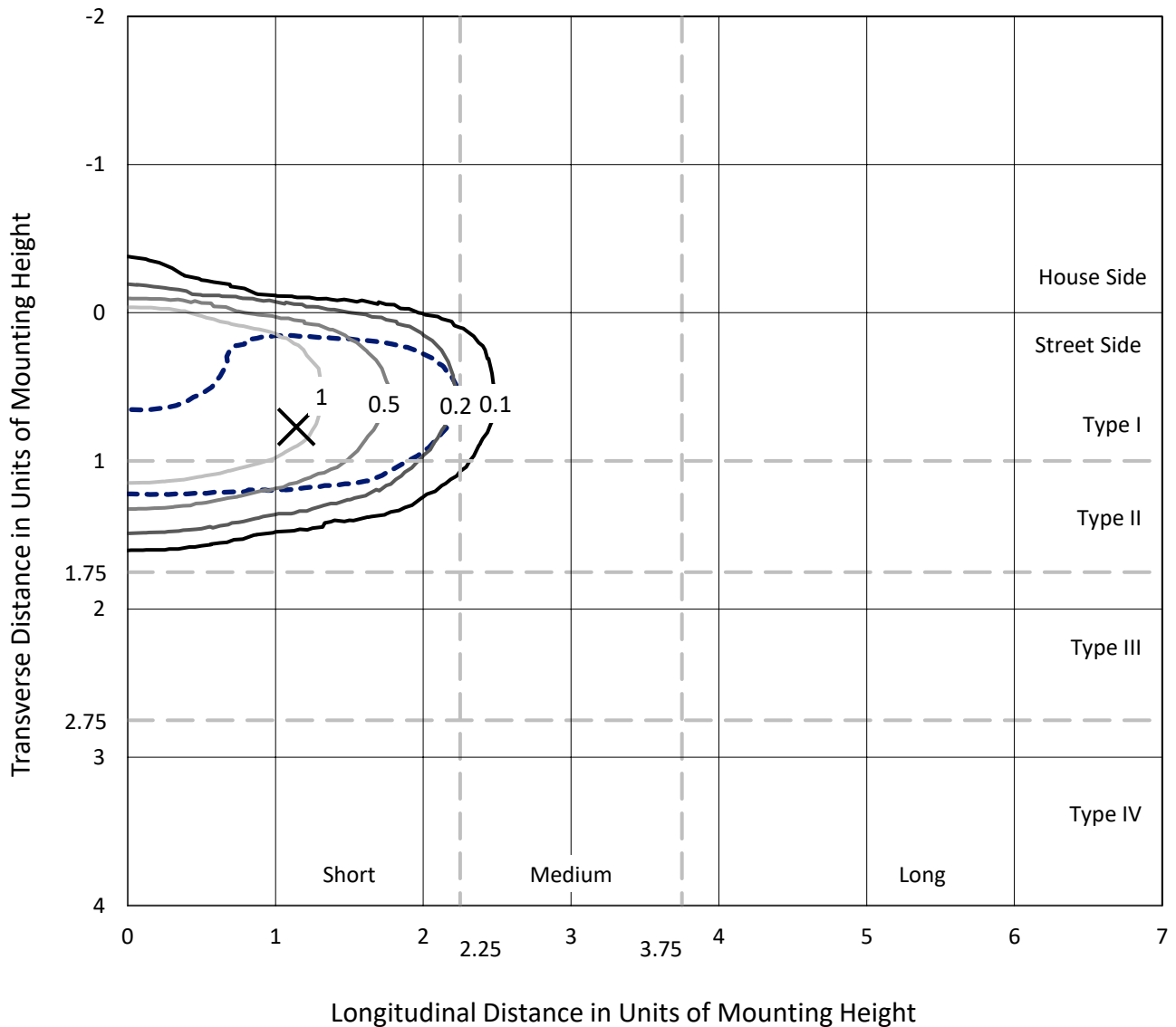
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

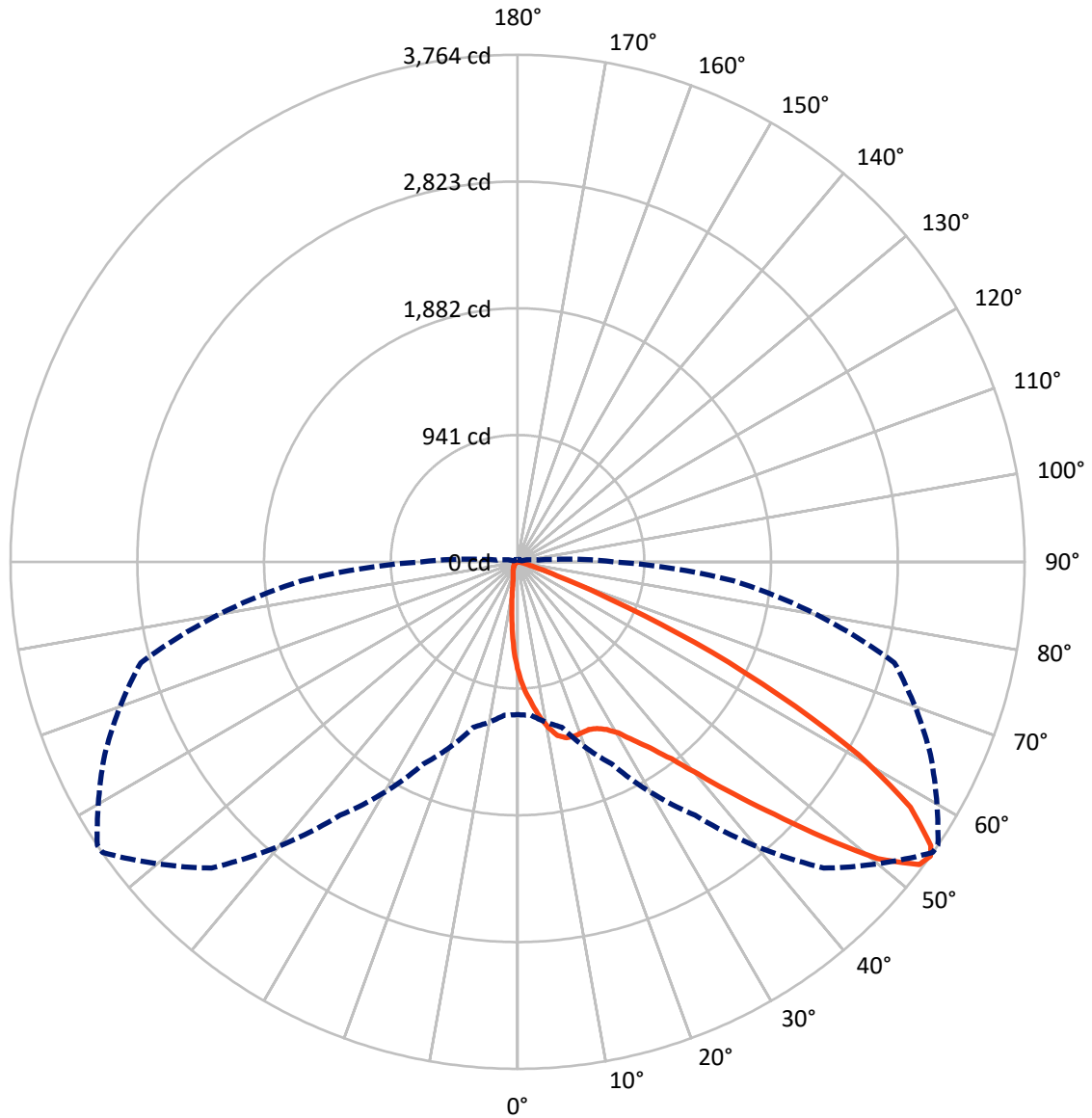
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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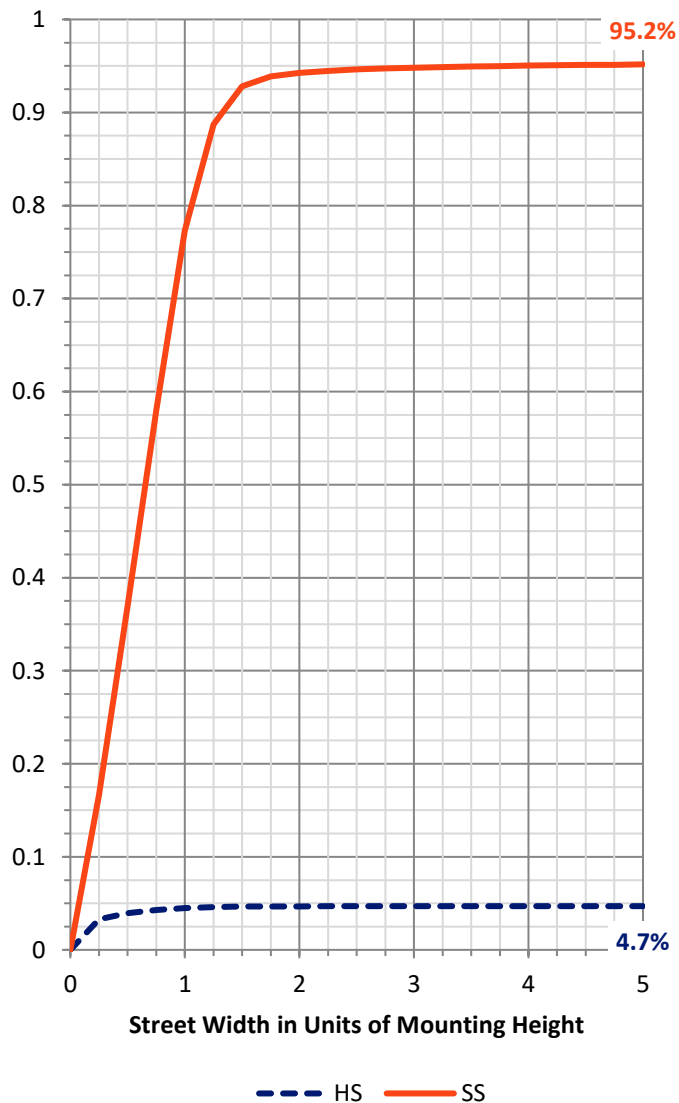
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	174.7	0.0	174.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	3518.8	0.0	3518.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	3693.4	0.0	3693.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	2.0
10°-20°	196.0	5.3
20°-30°	339.5	9.2
30°-40°	586.0	15.9
40°-50°	997.4	27.0
50°-60°	987.1	26.7
60°-70°	450.5	12.2
70°-80°	57.9	1.6
80°-90°	6.5	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°	3693.4	100.0
0°-180°	3693.4	100.0

**Coefficient of Utilization**

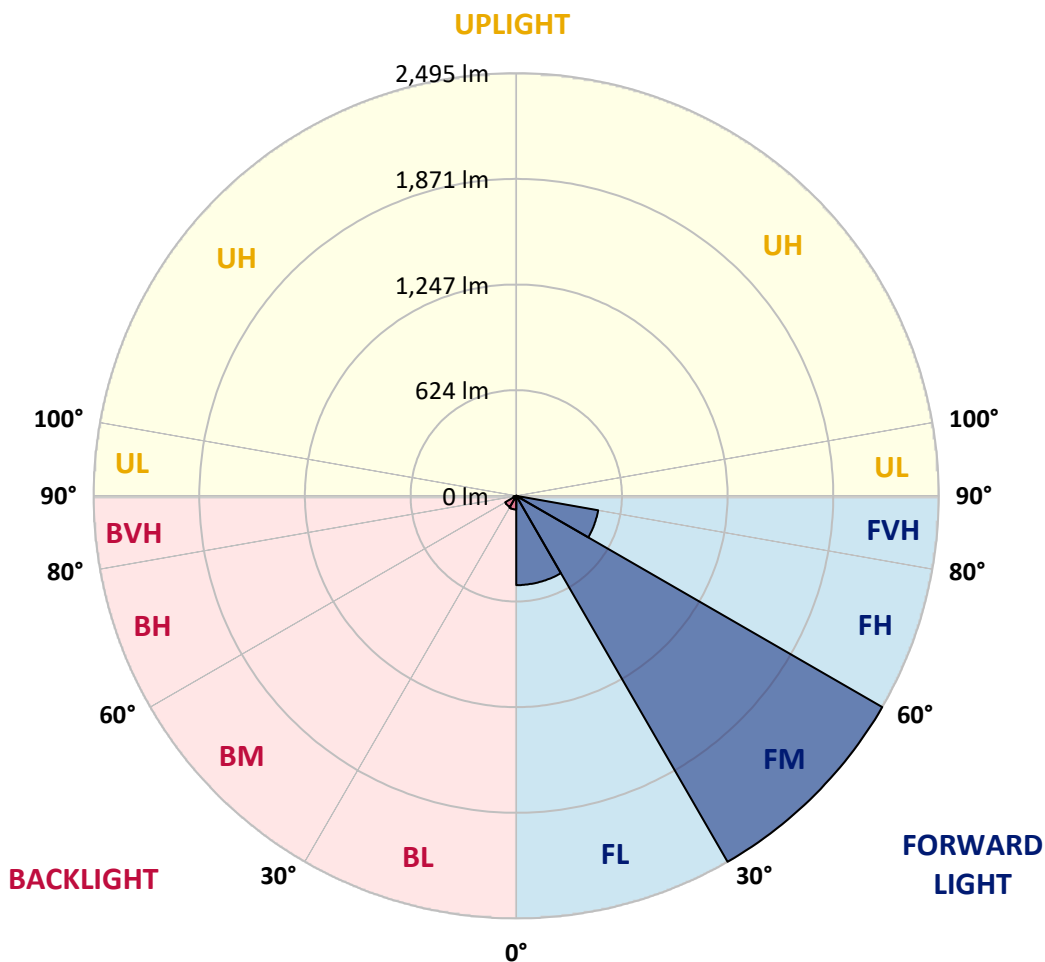


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.2	14.3			
FM (30°-60°)	2494.8	67.5			
FH (60°-80°)	490.9	13.3			G0/660
FVH (80°-90°)	5.8	0.2			G0/10
BL (0°-30°)	80.8	2.2	B0/110		
BM (30°-60°)	75.7	2.0	B0/220		
BH (60°-80°)	17.5	0.5	B0/110		G0/110
BVH (80°-90°)	0.7	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°	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6
2.5°	1042.9	1035.6	1025.7	1017.9	999.7	973.6	945.9	945.9	919.2	882.1	844.2
5°	1202.8	1198.1	1188.4	1168.5	1148.0	1111.4	1055.8	1046.1	998.5	931.2	860.4
7.5°	1267.8	1270.1	1270.6	1265.3	1255.6	1219.5	1164.5	1157.7	1081.7	991.5	881.7
10°	1205.6	1216.5	1227.3	1248.9	1279.6	1288.3	1257.1	1250.1	1175.4	1052.6	904.5
12.5°	1112.9	1118.8	1124.9	1159.0	1220.5	1291.0	1323.7	1323.4	1260.2	1113.3	933.7
15°	1069.7	1075.0	1075.5	1090.7	1144.0	1246.7	1352.1	1355.8	1342.8	1188.4	965.1
17.5°	1078.7	1083.0	1079.4	1083.2	1111.2	1197.8	1348.9	1361.3	1409.9	1260.4	993.5
20°	1137.3	1145.5	1132.1	1121.6	1130.0	1184.9	1337.9	1355.3	1457.2	1330.6	1019.4
22.5°	1242.5	1246.9	1230.0	1201.4	1186.4	1212.0	1334.9	1352.1	1497.6	1388.2	1034.3
25°	1359.3	1357.8	1339.2	1307.0	1275.6	1266.9	1354.6	1370.0	1531.0	1440.0	1038.9
27.5°	1476.2	1480.7	1449.3	1409.4	1371.7	1349.1	1398.7	1410.2	1568.7	1499.1	1044.4
30°	1612.0	1604.8	1573.8	1528.3	1485.1	1453.5	1469.7	1472.9	1620.4	1577.4	1058.8
32.5°	1788.7	1768.7	1734.1	1654.3	1623.5	1569.8	1573.8	1577.8	1683.5	1654.9	1076.2
35°	2028.4	2027.3	1959.6	1852.2	1776.9	1710.4	1693.0	1696.2	1779.0	1770.0	1114.8
37.5°	2316.9	2320.9	2243.7	2135.6	1997.0	1891.3	1855.5	1855.9	1924.0	1928.9	1173.6
40°	2552.0	2562.4	2516.2	2443.3	2306.5	2141.3	2081.0	2075.5	2127.8	2121.5	1257.7
42.5°	2653.1	2662.8	2680.0	2705.4	2630.2	2493.9	2351.6	2359.0	2375.0	2331.4	1351.8
45°	2603.5	2619.0	2686.5	2843.5	2914.2	2868.4	2698.7	2672.5	2605.0	2559.4	1446.5
47.5°	2396.9	2434.6	2547.4	2808.9	3056.5	3211.5	3090.4	3055.7	2835.2	2725.9	1506.8
50°	2057.3	2059.5	2216.8	2550.9	2982.8	3428.1	3490.4	3464.5	3049.8	2819.3	1537.3
52.5°	1491.4	1540.5	1684.5	2071.5	2663.3	3395.2	3745.2	3734.5	3271.1	2867.1	1581.1
54°	1133.8	1143.3	1271.4	1655.3	2296.2	3214.5	3761.0	3763.5	3381.0	2896.0	1607.0
55°	929.5	906.8	1041.3	1410.2	2045.8	3054.8	3709.6	3721.6	3430.3	2911.0	1626.2
57.5°	440.6	440.8	543.7	743.8	1281.3	2372.0	3395.9	3438.2	3435.8	2936.6	1685.3
60°	223.0	224.5	247.2	343.3	632.9	1576.9	2807.8	2908.8	3171.4	2940.4	1704.7
62.5°	156.0	154.3	150.5	165.2	266.4	801.4	2090.5	2178.1	2694.5	2798.1	1642.9
65°	133.6	129.8	119.3	117.1	134.6	319.2	1302.0	1445.0	2057.3	2422.8	1467.0
67.5°	114.2	112.6	103.2	97.4	95.2	139.1	671.8	747.1	1406.2	1741.5	1111.2
70°	96.9	96.2	90.4	83.2	77.0	83.2	249.2	308.7	783.7	937.7	524.3
72.5°	78.8	79.5	80.5	71.3	64.8	59.0	106.4	123.9	327.9	335.1	183.4
75°	69.1	68.3	68.3	62.0	54.1	43.8	58.6	63.0	100.5	93.2	42.6
77.5°	48.6	46.8	54.8	51.1	45.1	31.2	33.4	35.4	41.6	35.6	20.0
80°	33.7	33.7	35.2	45.9	40.6	22.7	20.4	21.9	24.7	21.2	11.4
82.5°	18.9	19.4	22.9	24.4	23.6	15.2	13.5	13.7	16.4	14.5	7.2
85°	2.3	3.8	13.2	12.9	9.7	6.7	7.4	7.8	10.2	9.0	4.2
87.5°	0.2	0.5	2.7	3.5	2.5	2.7	2.7	2.7	3.5	4.0	3.0
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°	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6
2.5°	823.8	804.8	759.7	707.4	674.1	619.7	573.9	540.7	532.5	516.5	521.3
5°	822.8	783.5	691.5	594.3	490.6	413.4	355.9	310.5	290.6	277.3	268.1
7.5°	823.3	761.8	614.3	459.5	335.7	259.9	206.6	178.9	160.4	152.8	153.8
10°	824.8	737.4	524.5	340.4	226.5	168.0	135.3	122.1	115.9	114.9	114.6
12.5°	828.3	710.7	438.8	252.7	158.5	122.1	109.6	105.2	103.2	103.2	102.4
15°	832.0	681.3	367.5	187.9	122.1	104.9	99.2	96.9	95.7	95.7	95.4
17.5°	832.0	647.4	301.0	145.8	105.2	96.5	91.9	88.9	87.9	87.9	87.7
20°	826.8	608.0	241.9	117.4	95.4	88.5	83.9	80.7	79.5	79.0	78.8
22.5°	808.6	555.5	192.6	100.9	87.5	81.5	75.7	72.0	71.0	70.5	70.8
25°	776.2	496.1	152.5	88.7	80.3	73.0	68.0	65.3	64.3	64.3	64.5
27.5°	742.8	434.1	120.8	79.5	71.5	65.1	61.1	59.3	59.0	59.8	60.1
30°	711.9	371.8	98.0	72.0	63.8	58.3	55.6	55.0	55.0	55.4	55.6
32.5°	677.5	317.2	82.0	65.5	57.6	52.9	51.4	51.4	51.8	51.8	52.3
35°	655.8	270.4	72.0	59.3	52.9	48.9	47.8	48.1	48.9	49.8	50.3
37.5°	644.2	233.0	65.5	54.3	48.3	45.6	44.6	45.1	46.8	48.6	48.9
40°	645.1	204.8	60.3	50.1	44.9	41.9	41.1	42.6	44.3	46.1	46.4
42.5°	656.1	183.9	55.4	45.1	41.9	37.7	37.3	38.8	39.6	41.3	41.6
45°	669.1	168.7	50.1	39.9	36.4	32.7	32.9	34.1	35.2	37.9	38.4
47.5°	673.1	158.2	44.1	33.9	29.9	28.7	28.9	29.7	31.6	34.1	34.4
50°	677.5	151.7	38.4	28.7	25.4	25.1	25.4	25.9	27.2	28.2	27.9
52.5°	696.7	151.5	33.7	24.9	21.7	22.2	22.4	22.2	21.2	19.7	19.2
54°	714.6	152.2	31.4	23.2	20.0	20.7	20.4	19.2	16.7	15.2	14.5
55°	729.1	153.0	30.1	21.9	18.9	19.2	19.4	16.9	13.7	12.2	11.7
57.5°	757.6	151.3	27.2	19.2	16.7	15.7	15.4	11.2	7.4	6.5	6.0
60°	743.3	136.6	24.7	16.4	14.2	12.7	10.5	6.3	3.8	2.7	2.7
62.5°	687.5	115.9	21.9	13.5	11.7	9.7	5.5	3.5	1.7	1.0	0.8
65°	615.0	97.4	19.7	10.7	9.2	6.3	3.0	2.3	0.8	0.0	0.0
67.5°	457.3	72.3	16.7	8.5	7.0	4.0	2.0	1.3	0.2	0.0	0.0
70°	211.8	44.1	14.2	6.5	5.0	3.0	1.5	0.8	0.0	0.0	0.0
72.5°	60.8	27.6	11.7	4.7	3.5	2.5	1.3	0.5	0.2	0.0	0.0
75°	21.2	22.2	8.7	3.5	2.7	1.7	1.0	0.5	0.2	0.0	0.0
77.5°	12.7	17.9	5.5	3.0	2.3	1.5	1.0	0.5	0.2	0.2	0.0
80°	7.2	12.0	3.5	2.5	2.0	1.3	0.8	0.5	0.2	0.2	0.0
82.5°	4.0	5.7	2.7	2.3	1.7	1.3	0.8	0.5	0.2	0.2	0.2
85°	3.2	3.0	2.3	2.0	1.5	1.0	0.8	0.2	0.0	0.0	0.0
87.5°	2.5	2.0	2.0	2.0	1.5	1.0	0.8	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)