

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: P450251

Luminaire Tested: **GALN-SA1A-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450251  
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-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 3791 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

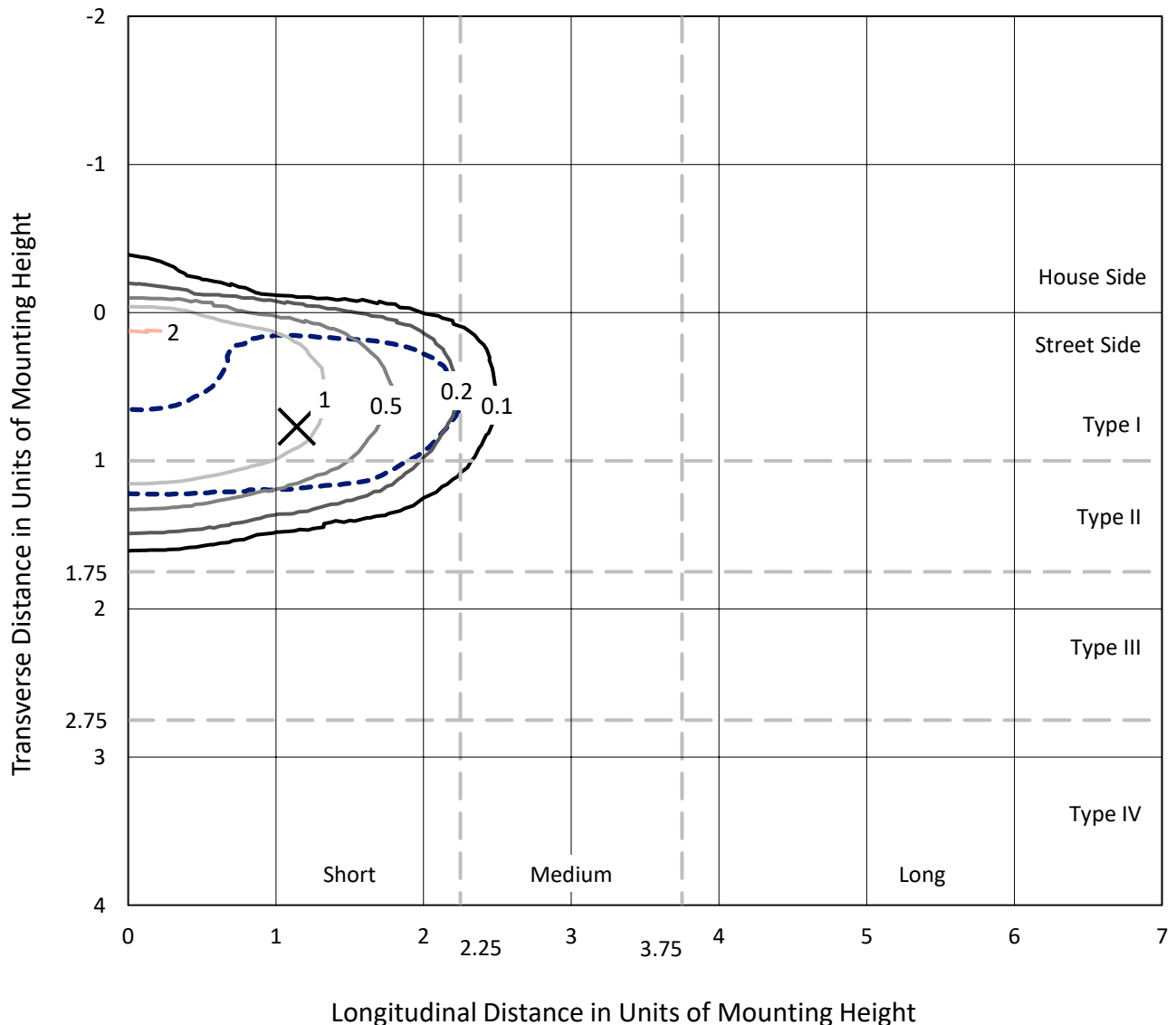
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

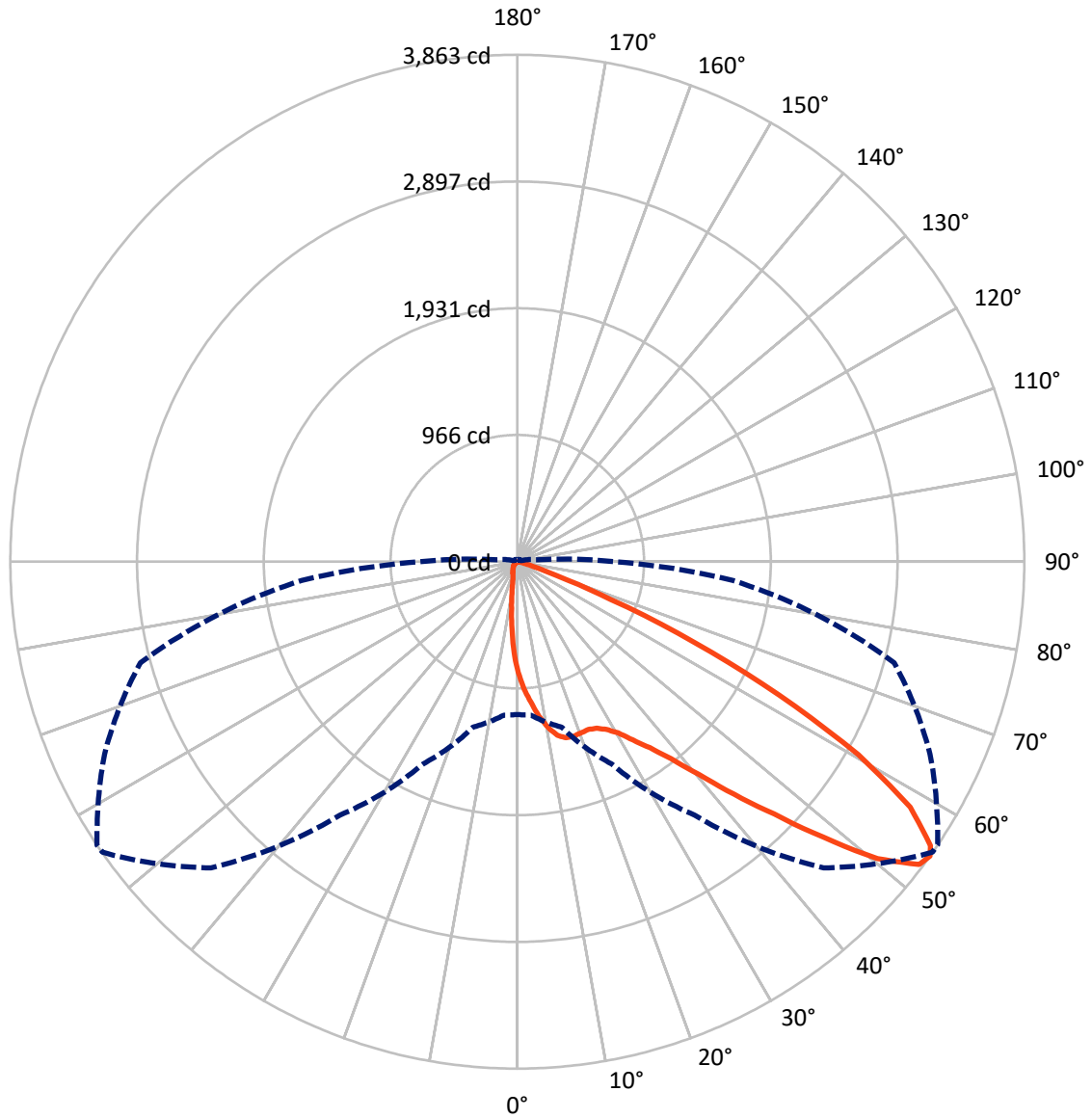
✕ Max cd  
 - - - 1/2 Max cd



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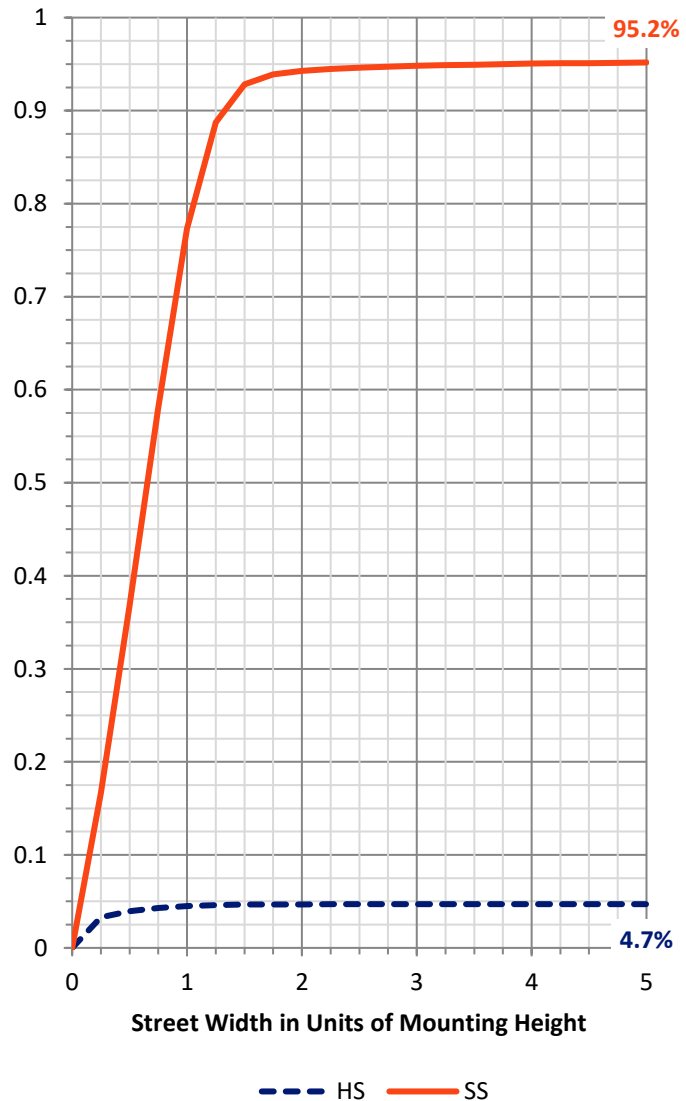
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	179.3	0.0	179.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	3611.7	0.0	3611.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	3791.0	0.0	3791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	2.0
10°-20°	201.2	5.3
20°-30°	348.5	9.2
30°-40°	601.5	15.9
40°-50°	1023.8	27.0
50°-60°	1013.2	26.7
60°-70°	462.4	12.2
70°-80°	59.4	1.6
80°-90°	6.7	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°	3791.0	100.0
0°-180°	3791.0	100.0

**Coefficient of Utilization**



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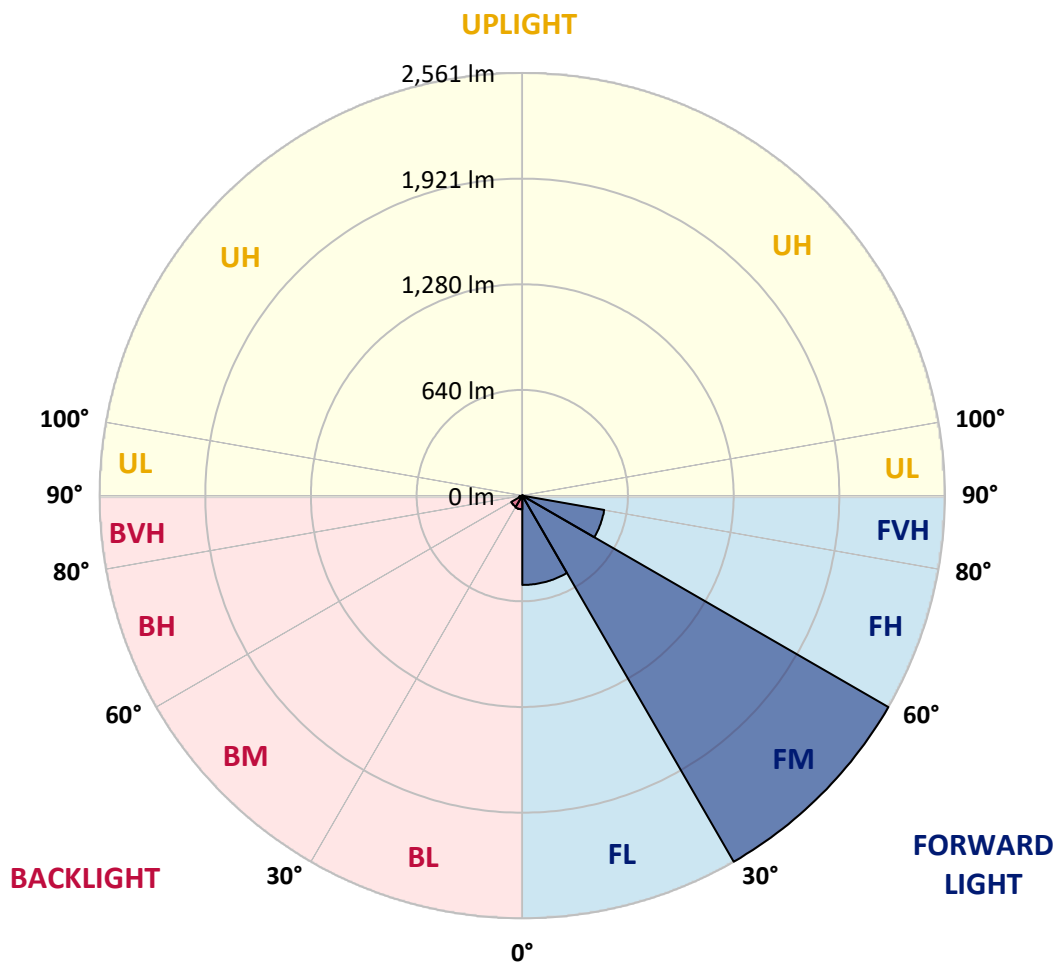
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.2	14.3			
FM (30°-60°)	2560.7	67.5			
FH (60°-80°)	503.9	13.3			G0/660
FVH (80°-90°)	6.0	0.2			G0/10
BL (0°-30°)	82.9	2.2	B0/110		
BM (30°-60°)	77.7	2.0	B0/220		
BH (60°-80°)	18.0	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°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3
2.5°	1070.4	1063.0	1052.8	1044.8	1026.1	999.3	970.9	970.9	943.5	905.4	866.5
5°	1234.6	1229.7	1219.8	1199.3	1178.3	1140.7	1083.7	1073.7	1024.9	955.8	883.2
7.5°	1301.4	1303.7	1304.2	1298.8	1288.8	1251.7	1195.2	1188.3	1110.3	1017.7	904.9
10°	1237.4	1248.7	1259.7	1281.9	1313.4	1322.3	1290.4	1283.2	1206.5	1080.4	928.4
12.5°	1142.3	1148.4	1154.5	1189.6	1252.8	1325.1	1358.7	1358.4	1293.4	1142.8	958.4
15°	1098.0	1103.4	1103.9	1119.5	1174.2	1279.6	1387.8	1391.6	1378.3	1219.8	990.6
17.5°	1107.2	1111.6	1108.0	1111.8	1140.5	1229.5	1384.5	1397.3	1447.1	1293.7	1019.8
20°	1167.3	1175.8	1162.0	1151.2	1159.9	1216.2	1373.2	1391.1	1495.7	1365.8	1046.4
22.5°	1275.3	1279.9	1262.5	1233.1	1217.7	1244.1	1370.2	1387.8	1537.2	1424.9	1061.7
25°	1395.2	1393.7	1374.5	1341.5	1309.3	1300.3	1390.4	1406.2	1571.5	1478.1	1066.3
27.5°	1515.2	1519.8	1487.6	1446.6	1408.0	1384.7	1435.6	1447.4	1610.1	1538.7	1071.9
30°	1654.6	1647.2	1615.4	1568.6	1524.4	1491.9	1508.5	1511.9	1663.3	1619.0	1086.8
32.5°	1835.9	1815.5	1779.9	1698.1	1666.3	1611.4	1615.4	1619.5	1728.0	1698.6	1104.7
35°	2082.0	2080.9	2011.4	1901.1	1823.9	1755.6	1737.7	1741.0	1825.9	1816.7	1144.3
37.5°	2378.2	2382.2	2303.0	2192.0	2049.7	1941.3	1904.5	1905.0	1974.8	1979.9	1204.7
40°	2619.3	2630.1	2582.8	2507.8	2367.4	2197.8	2135.9	2130.3	2184.0	2177.6	1290.9
42.5°	2723.2	2733.2	2750.8	2776.9	2699.7	2559.7	2413.7	2421.4	2437.7	2393.0	1387.6
45°	2672.3	2688.1	2757.5	2918.6	2991.2	2944.2	2770.0	2743.1	2673.8	2627.0	1484.7
47.5°	2460.3	2498.9	2614.7	2883.0	3137.3	3296.4	3172.1	3136.5	2910.2	2797.9	1546.6
50°	2111.6	2113.9	2275.3	2618.3	3061.6	3518.6	3582.6	3556.0	3130.4	2893.8	1577.8
52.5°	1530.8	1581.2	1729.0	2126.2	2733.7	3484.9	3844.2	3833.2	3357.5	2942.9	1622.9
54°	1163.8	1173.5	1304.9	1699.1	2356.9	3299.4	3860.3	3862.9	3470.3	2972.6	1649.5
55°	954.0	930.7	1068.9	1447.4	2099.9	3135.5	3807.7	3819.9	3520.9	2987.9	1669.2
57.5°	452.2	452.5	558.1	763.5	1315.2	2434.7	3485.6	3529.1	3526.6	3014.3	1729.8
60°	228.9	230.4	253.7	352.5	649.7	1618.5	2882.0	2985.6	3255.2	3018.1	1749.7
62.5°	160.1	158.3	154.5	169.6	273.4	822.6	2145.7	2235.7	2765.6	2872.0	1686.3
65°	137.1	133.3	122.5	120.2	138.1	327.6	1336.4	1483.2	2111.6	2486.9	1505.7
67.5°	117.1	115.6	105.9	100.0	97.7	142.7	689.6	766.8	1443.3	1787.6	1140.5
70°	99.5	98.7	92.8	85.4	79.0	85.4	255.8	316.9	804.4	962.5	538.1
72.5°	80.8	81.6	82.6	73.2	66.5	60.6	109.2	127.1	336.6	344.0	188.2
75°	70.8	70.1	70.1	63.7	55.5	45.0	60.1	64.7	103.1	95.7	43.7
77.5°	49.9	48.1	56.3	52.4	46.3	32.0	34.3	36.3	42.7	36.6	20.5
80°	34.5	34.5	36.1	47.1	41.7	23.3	21.0	22.5	25.3	21.7	11.8
82.5°	19.4	20.0	23.5	25.1	24.3	15.6	13.8	14.1	16.9	14.8	7.4
85°	2.3	3.8	13.6	13.3	10.0	6.9	7.7	7.9	10.5	9.2	4.3
87.5°	0.3	0.5	2.8	3.6	2.6	2.8	2.8	2.8	3.6	4.1	3.1
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°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3
2.5°	845.6	826.1	779.8	726.1	691.9	636.1	589.0	555.0	546.6	530.2	535.1
5°	844.6	804.1	709.8	610.0	503.6	424.3	365.2	318.7	298.2	284.7	275.2
7.5°	845.1	781.9	630.5	471.6	344.5	266.8	212.0	183.6	164.7	156.8	157.8
10°	846.6	756.8	538.4	349.4	232.5	172.4	138.9	125.3	118.9	117.9	117.7
12.5°	850.2	729.5	450.4	259.4	162.7	125.3	112.5	107.9	105.9	105.9	105.1
15°	854.0	699.3	377.3	192.9	125.3	107.7	101.8	99.5	98.2	98.2	98.0
17.5°	854.0	664.5	309.0	149.6	107.9	99.0	94.4	91.3	90.3	90.3	90.0
20°	848.6	624.1	248.4	120.5	98.0	90.8	86.2	82.9	81.6	81.1	80.8
22.5°	830.0	570.1	197.7	103.6	89.8	83.6	77.8	73.9	72.9	72.4	72.6
25°	796.7	509.2	156.5	91.1	82.4	74.9	69.8	67.0	66.0	66.0	66.2
27.5°	762.5	445.6	124.0	81.6	73.4	66.8	62.7	60.9	60.6	61.4	61.6
30°	730.7	381.6	100.5	73.9	65.5	59.9	57.0	56.5	56.5	56.8	57.0
32.5°	695.4	325.6	84.1	67.3	59.1	54.2	52.7	52.7	53.2	53.2	53.7
35°	673.2	277.5	73.9	60.9	54.2	50.1	49.1	49.4	50.1	51.2	51.7
37.5°	661.2	239.1	67.3	55.8	49.6	46.8	45.8	46.3	48.1	49.9	50.1
40°	662.2	210.2	61.9	51.4	46.0	43.0	42.2	43.7	45.5	47.3	47.6
42.5°	673.4	188.8	56.8	46.3	43.0	38.6	38.4	39.9	40.7	42.5	42.7
45°	686.7	173.2	51.4	40.9	37.3	33.5	33.8	35.0	36.1	38.9	39.4
47.5°	690.8	162.4	45.3	34.8	30.7	29.4	29.7	30.4	32.5	35.0	35.3
50°	695.4	155.8	39.4	29.4	26.1	25.8	26.1	26.6	27.9	28.9	28.6
52.5°	715.1	155.5	34.5	25.6	22.3	22.8	23.0	22.8	21.7	20.2	19.7
54°	733.5	156.3	32.2	23.8	20.5	21.2	21.0	19.7	17.1	15.6	14.8
55°	748.4	157.0	30.9	22.5	19.4	19.7	20.0	17.4	14.1	12.5	12.0
57.5°	777.5	155.3	27.9	19.7	17.1	16.1	15.9	11.5	7.7	6.7	6.1
60°	763.0	140.2	25.3	16.9	14.6	13.0	10.7	6.4	3.8	2.8	2.8
62.5°	705.7	118.9	22.5	13.8	12.0	10.0	5.6	3.6	1.8	1.0	0.8
65°	631.2	100.0	20.2	11.0	9.5	6.4	3.1	2.3	0.8	0.0	0.0
67.5°	469.3	74.2	17.1	8.7	7.2	4.1	2.0	1.3	0.3	0.0	0.0
70°	217.4	45.3	14.6	6.7	5.1	3.1	1.5	0.8	0.0	0.0	0.0
72.5°	62.4	28.4	12.0	4.9	3.6	2.6	1.3	0.5	0.3	0.0	0.0
75°	21.7	22.8	9.0	3.6	2.8	1.8	1.0	0.5	0.3	0.0	0.0
77.5°	13.0	18.4	5.6	3.1	2.3	1.5	1.0	0.5	0.3	0.3	0.0
80°	7.4	12.3	3.6	2.6	2.0	1.3	0.8	0.5	0.3	0.3	0.0
82.5°	4.1	5.9	2.8	2.3	1.8	1.3	0.8	0.5	0.3	0.3	0.3
85°	3.3	3.1	2.3	2.0	1.5	1.0	0.8	0.3	0.0	0.0	0.0
87.5°	2.6	2.0	2.0	2.0	1.5	1.0	0.8	0.3	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)