

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: P534615

Luminaire Tested: **GALN-SA7A-AMB-U-SL4-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5566 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

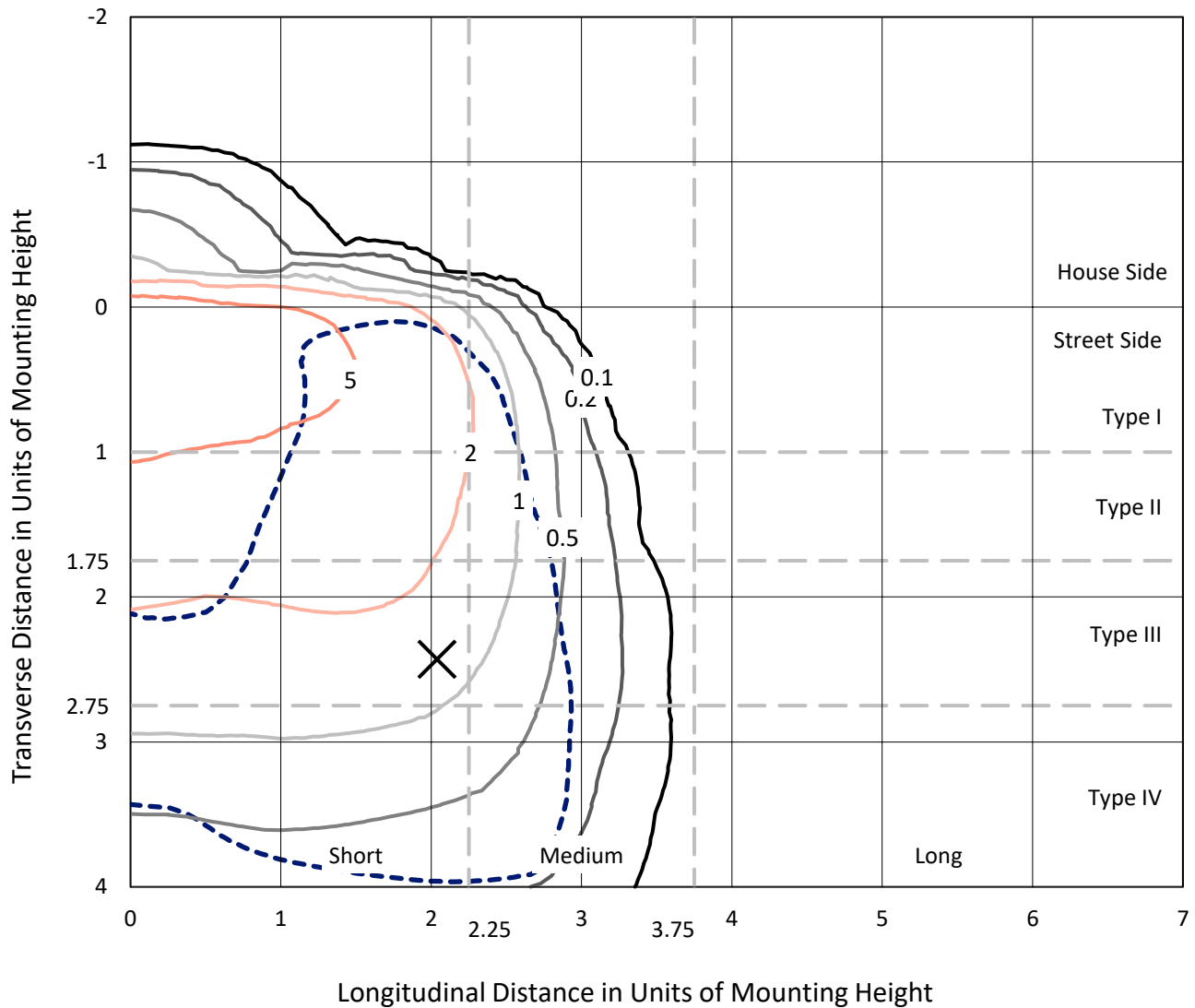
Input Watts (W): 138.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

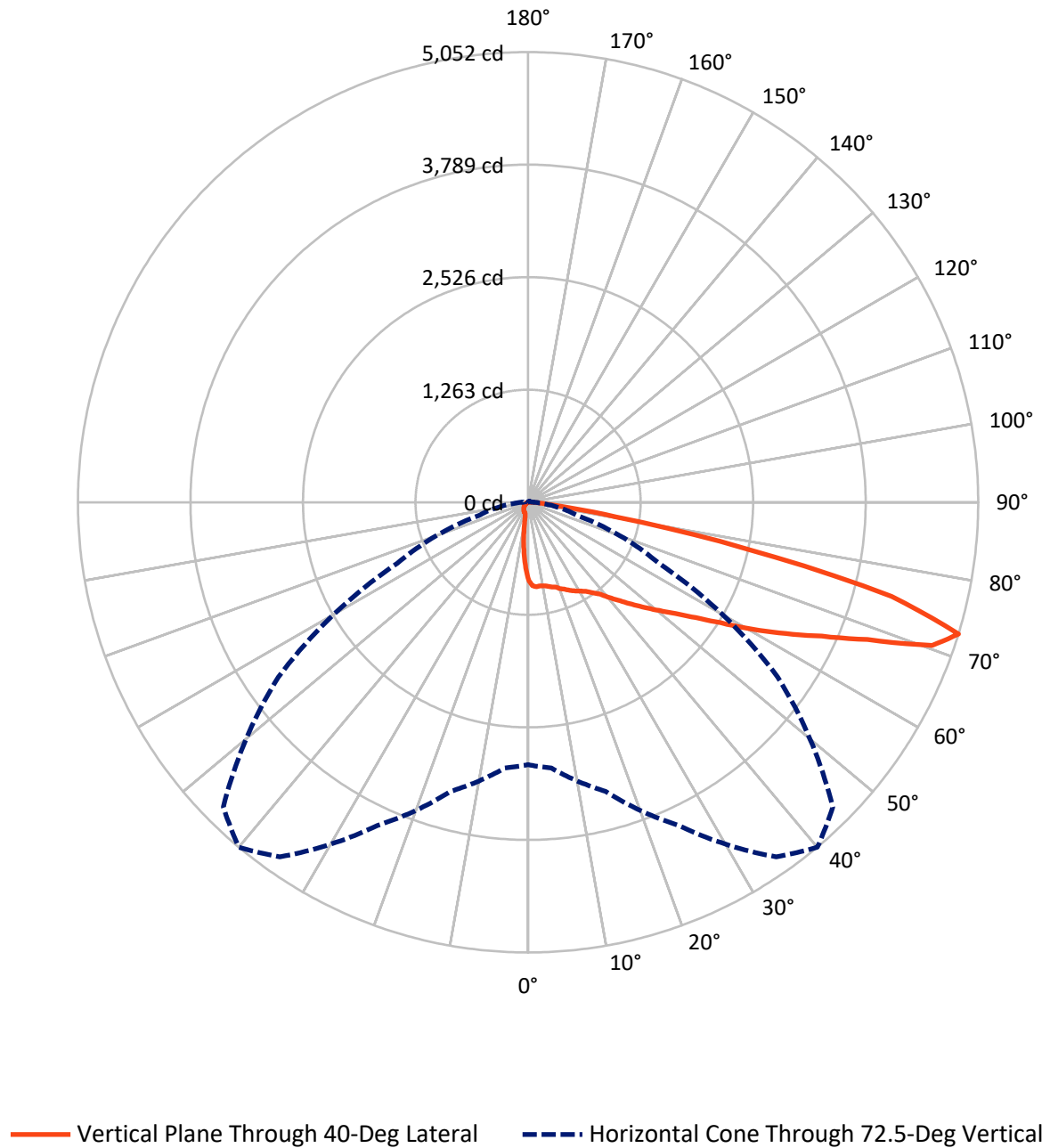
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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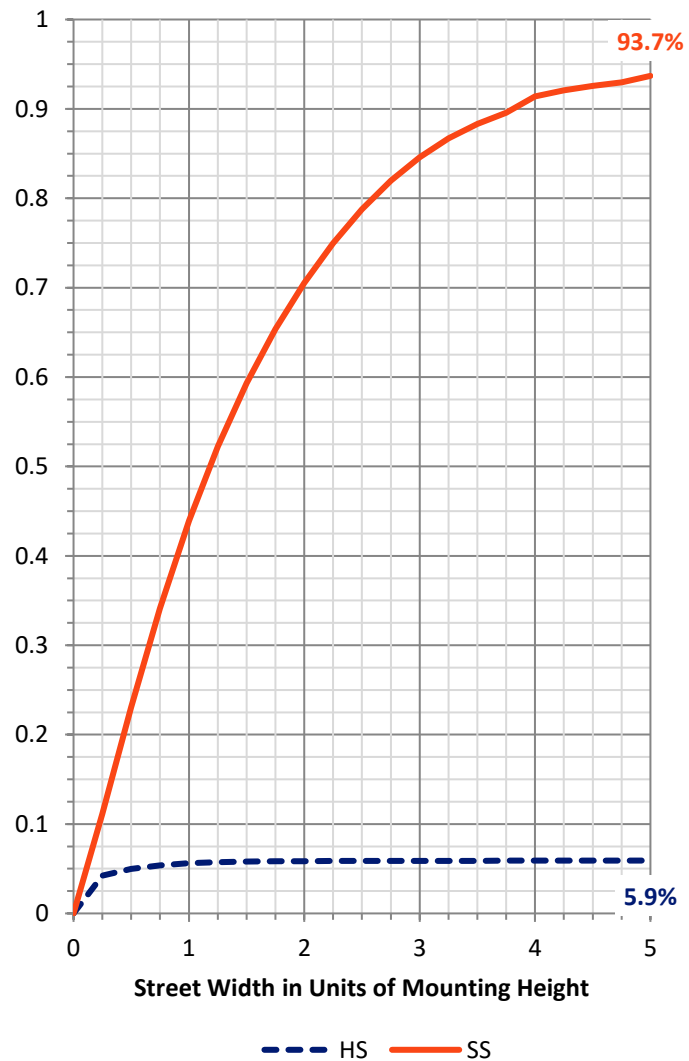
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.0	0.0	331.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5235.0	0.0	5235.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	5566.0	0.0	5566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.3
10°-20°	175.1	3.1
20°-30°	290.3	5.2
30°-40°	444.2	8.0
40°-50°	709.3	12.7
50°-60°	1109.2	19.9
60°-70°	1592.1	28.6
70°-80°	1071.8	19.3
80°-90°	103.9	1.9
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°	5566.0	100.0
0°-180°	5566.0	100.0

Coefficient of Utilization



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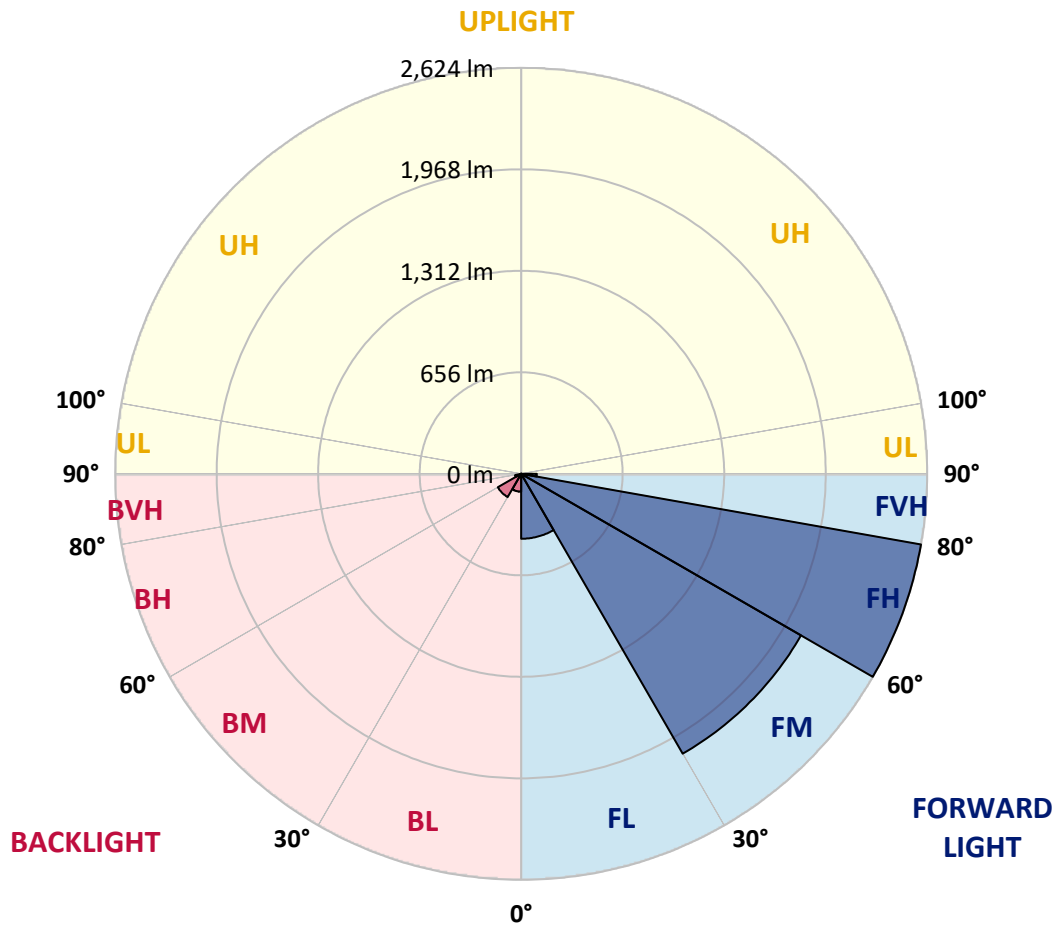
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.0	7.5			
FM	(30°-60°)	2089.0	37.5			
FH	(60°-80°)	2624.4	47.2			G2/5000
FVH	(80°-90°)	101.6	1.8			G2/225
BL	(0°-30°)	115.5	2.1	B1/500		
BM	(30°-60°)	173.8	3.1	B0/220		
BH	(60°-80°)	39.4	0.7	B0/110		G0/110
BVH	(80°-90°)	2.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5
2.5°	965.5	959.4	947.3	944.3	944.3	935.1	935.1	923.0	910.9	892.6	871.4
5°	974.6	971.6	968.5	971.6	959.4	953.4	944.3	929.1	907.8	889.6	862.3
7.5°	974.6	974.6	968.5	959.4	959.4	947.3	944.3	926.0	907.8	886.6	853.2
10°	953.4	953.4	956.4	959.4	962.5	953.4	950.3	923.0	910.9	898.7	859.2
12.5°	932.1	929.1	947.3	959.4	968.5	965.5	956.4	947.3	923.0	895.7	862.3
15°	926.0	926.0	944.3	971.6	983.7	986.8	977.7	962.5	935.1	910.9	871.4
17.5°	929.1	929.1	953.4	986.8	1005.0	998.9	1001.9	974.6	947.3	926.0	889.6
20°	953.4	947.3	983.7	1023.2	1038.4	1035.3	1023.2	992.8	965.5	947.3	907.8
22.5°	971.6	968.5	1011.1	1050.5	1074.8	1059.6	1050.5	1005.0	977.7	968.5	929.1
25°	1017.1	1020.2	1050.5	1096.1	1105.2	1096.1	1080.9	1023.2	998.9	1005.0	947.3
27.5°	1065.7	1071.8	1105.2	1135.5	1135.5	1126.4	1111.2	1050.5	1029.3	1035.3	980.7
30°	1129.5	1120.4	1153.8	1172.0	1168.9	1156.8	1144.6	1080.9	1071.8	1093.0	1020.2
32.5°	1205.4	1196.3	1214.5	1220.6	1199.3	1190.2	1187.2	1126.4	1117.3	1162.9	1068.7
35°	1287.3	1269.1	1275.2	1266.1	1250.9	1244.8	1229.7	1178.0	1190.2	1250.9	1144.6
37.5°	1348.1	1342.0	1342.0	1314.7	1305.6	1305.6	1305.6	1260.0	1287.3	1393.6	1260.0
40°	1414.9	1402.7	1387.5	1369.3	1390.6	1405.8	1405.8	1363.3	1420.9	1560.6	1396.7
42.5°	1466.5	1460.4	1439.2	1433.1	1484.7	1512.0	1521.1	1484.7	1578.8	1782.2	1587.9
45°	1527.2	1512.0	1478.6	1509.0	1584.9	1630.4	1645.6	1639.5	1776.2	2028.2	1803.5
47.5°	1572.8	1569.7	1527.2	1584.9	1691.2	1764.0	1803.5	1800.5	1988.7	2331.8	2034.3
50°	1654.7	1636.5	1587.9	1691.2	1806.5	1909.8	1964.4	2000.9	2268.0	2623.3	2231.6
52.5°	1733.7	1718.5	1654.7	1806.5	1949.2	2073.7	2158.7	2280.2	2562.6	2872.2	2337.9
55°	1846.0	1836.9	1785.3	1946.2	2140.5	2283.2	2389.5	2583.8	2872.2	3042.3	2435.0
57.5°	1985.7	1949.2	1931.0	2131.4	2383.4	2550.4	2684.0	2908.7	3090.9	3191.0	2574.7
60°	2140.5	2098.0	2064.6	2340.9	2690.1	2893.5	3045.3	3197.1	3285.2	3403.6	2787.2
62.5°	2307.5	2271.1	2243.8	2535.2	3008.9	3245.7	3352.0	3424.8	3582.7	3761.9	2841.9
65°	2535.2	2483.6	2471.5	2817.6	3391.4	3622.2	3695.1	3846.9	3971.4	3868.1	2550.4
67.5°	2726.5	2784.2	2835.8	3242.7	3919.7	4108.0	4256.8	4387.3	4080.7	3263.9	1627.4
70°	3039.2	3051.4	3230.5	3752.7	4493.6	4812.4	4894.4	4417.7	3151.6	1803.5	616.3
72.5°	2945.1	2993.7	3358.0	4001.7	4857.9	5052.2	4836.7	3421.8	1621.3	570.8	160.9
75°	2067.7	2131.4	2917.8	3552.4	4393.4	4214.2	3491.6	1748.9	552.6	136.6	66.8
77.5°	1023.2	1083.9	1630.4	2286.3	2920.8	2492.7	1736.7	728.7	221.6	72.9	45.5
80°	552.6	576.9	652.8	974.6	1293.4	998.9	640.6	431.1	154.8	48.6	33.4
82.5°	300.6	324.9	419.0	379.5	422.0	361.3	318.8	416.0	100.2	36.4	30.4
85°	66.8	72.9	233.8	239.9	221.6	148.8	145.7	400.8	39.5	18.2	18.2
87.5°	0.0	0.0	42.5	91.1	97.2	82.0	100.2	170.0	6.1	6.1	6.1
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°	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5	877.5
2.5°	862.3	853.2	825.8	798.5	771.2	749.9	725.7	710.5	698.3	695.3	692.3
5°	844.1	819.8	774.2	716.5	655.8	598.1	546.5	507.0	485.8	467.6	464.5
7.5°	835.0	810.7	728.7	637.6	531.3	443.3	361.3	297.5	252.0	239.9	230.8
10°	838.0	798.5	686.2	549.6	406.9	279.3	197.4	157.9	142.7	139.7	139.7
12.5°	831.9	786.4	637.6	458.5	279.3	167.0	136.6	130.6	130.6	130.6	130.6
15°	838.0	777.3	592.1	361.3	182.2	130.6	127.5	124.5	124.5	124.5	127.5
17.5°	853.2	780.3	543.5	270.2	133.6	124.5	121.4	121.4	121.4	121.4	121.4
20°	862.3	777.3	485.8	191.3	124.5	118.4	118.4	115.4	115.4	115.4	118.4
22.5°	868.4	768.2	419.0	139.7	118.4	115.4	112.3	112.3	112.3	112.3	112.3
25°	883.5	759.1	346.1	121.4	112.3	109.3	109.3	109.3	106.3	106.3	106.3
27.5°	898.7	759.1	270.2	115.4	109.3	106.3	103.2	103.2	103.2	103.2	100.2
30°	916.9	746.9	206.5	109.3	103.2	100.2	97.2	97.2	97.2	97.2	97.2
32.5°	941.2	740.8	148.8	103.2	97.2	91.1	91.1	91.1	91.1	91.1	91.1
35°	983.7	734.8	118.4	97.2	88.0	85.0	85.0	85.0	82.0	82.0	82.0
37.5°	1053.6	740.8	103.2	88.0	82.0	78.9	75.9	75.9	75.9	72.9	72.9
40°	1156.8	759.1	97.2	82.0	75.9	72.9	69.8	69.8	66.8	63.8	63.8
42.5°	1272.2	771.2	91.1	75.9	69.8	66.8	63.8	63.8	57.7	54.7	54.7
45°	1414.9	774.2	85.0	72.9	63.8	60.7	57.7	54.7	48.6	45.5	45.5
47.5°	1581.9	774.2	75.9	63.8	60.7	54.7	54.7	45.5	39.5	36.4	36.4
50°	1709.4	746.9	69.8	60.7	54.7	51.6	45.5	39.5	30.4	30.4	27.3
52.5°	1770.1	680.1	66.8	54.7	48.6	45.5	39.5	30.4	24.3	21.3	21.3
55°	1821.7	607.2	60.7	51.6	45.5	39.5	33.4	24.3	18.2	15.2	15.2
57.5°	1894.6	507.0	57.7	45.5	39.5	33.4	27.3	18.2	12.1	9.1	9.1
60°	1976.6	388.6	51.6	39.5	36.4	27.3	21.3	12.1	6.1	6.1	6.1
62.5°	1885.5	233.8	45.5	36.4	30.4	24.3	15.2	9.1	3.0	3.0	3.0
65°	1496.8	130.6	39.5	30.4	27.3	21.3	12.1	6.1	0.0	0.0	0.0
67.5°	838.0	78.9	33.4	27.3	24.3	21.3	15.2	9.1	3.0	0.0	0.0
70°	258.1	54.7	27.3	24.3	21.3	15.2	6.1	3.0	0.0	0.0	0.0
72.5°	69.8	39.5	21.3	18.2	18.2	12.1	6.1	3.0	0.0	0.0	0.0
75°	45.5	27.3	18.2	15.2	15.2	12.1	6.1	3.0	0.0	0.0	0.0
77.5°	33.4	24.3	15.2	12.1	12.1	12.1	6.1	3.0	0.0	0.0	0.0
80°	30.4	18.2	12.1	9.1	12.1	15.2	6.1	3.0	0.0	0.0	0.0
82.5°	30.4	18.2	9.1	9.1	12.1	15.2	6.1	3.0	0.0	0.0	0.0
85°	18.2	6.1	3.0	3.0	6.1	6.1	3.0	3.0	0.0	0.0	0.0
87.5°	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	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)