

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: P534597

Luminaire Tested: **GALN-SA5A-AMB-U-SL3-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-AMB-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4282 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 100.1
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

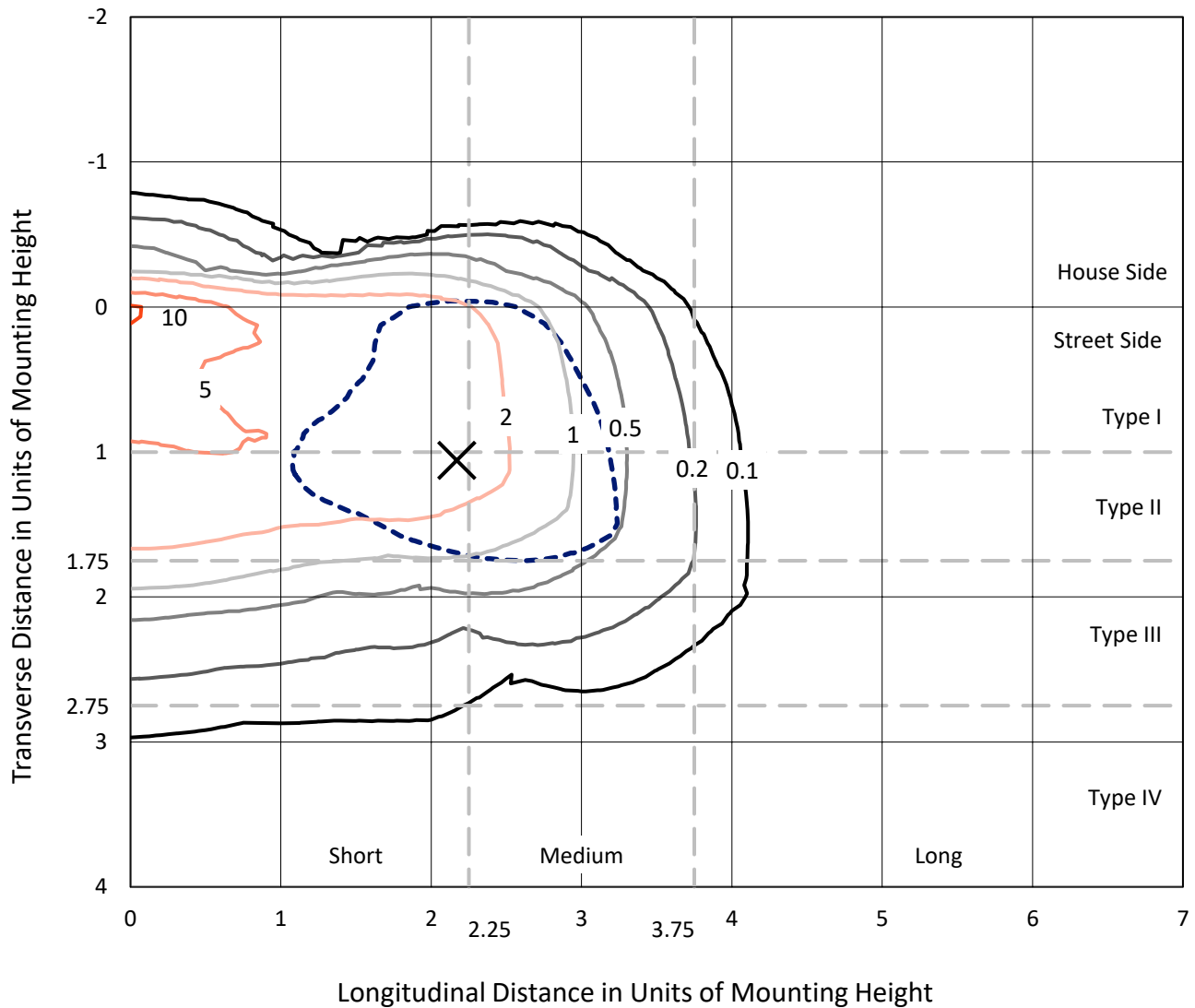


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Iso-Footcandle Lines of Horizontal Illumination

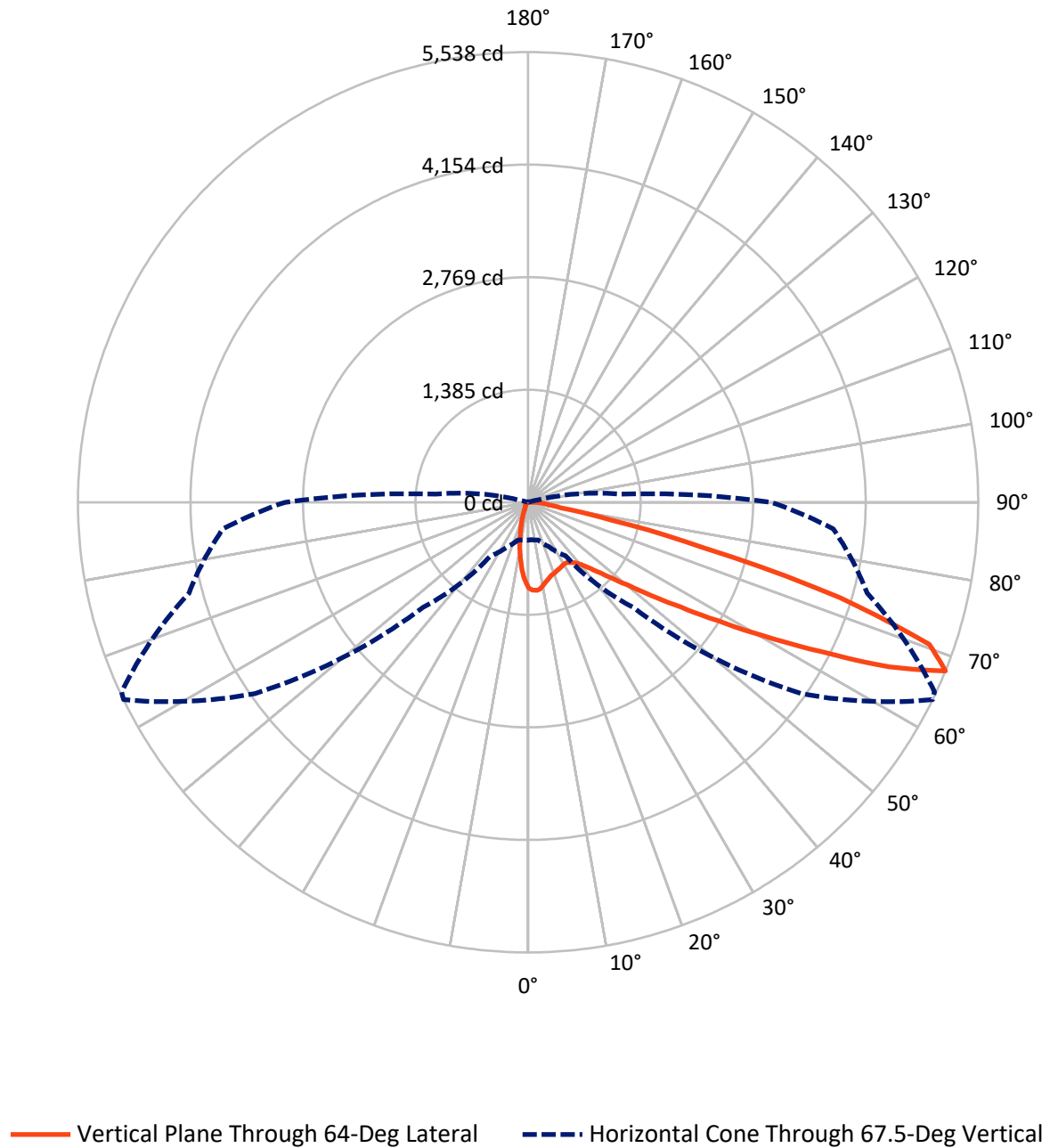
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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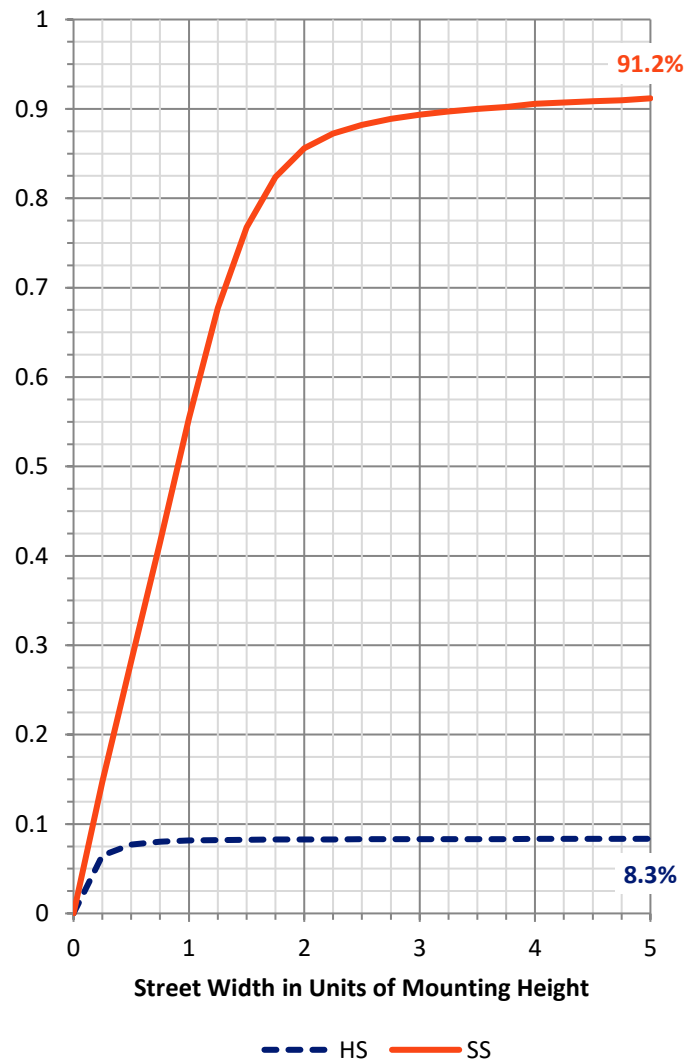
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	360.6	0.0	360.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3921.4	0.0	3921.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	4282.0	0.0	4282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.9
10°-20°	167.7	3.9
20°-30°	235.8	5.5
30°-40°	344.7	8.0
40°-50°	571.5	13.3
50°-60°	1001.0	23.4
60°-70°	1291.2	30.2
70°-80°	531.1	12.4
80°-90°	58.1	1.4
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°	4282.0	100.0
0°-180°	4282.0	100.0

Coefficient of Utilization



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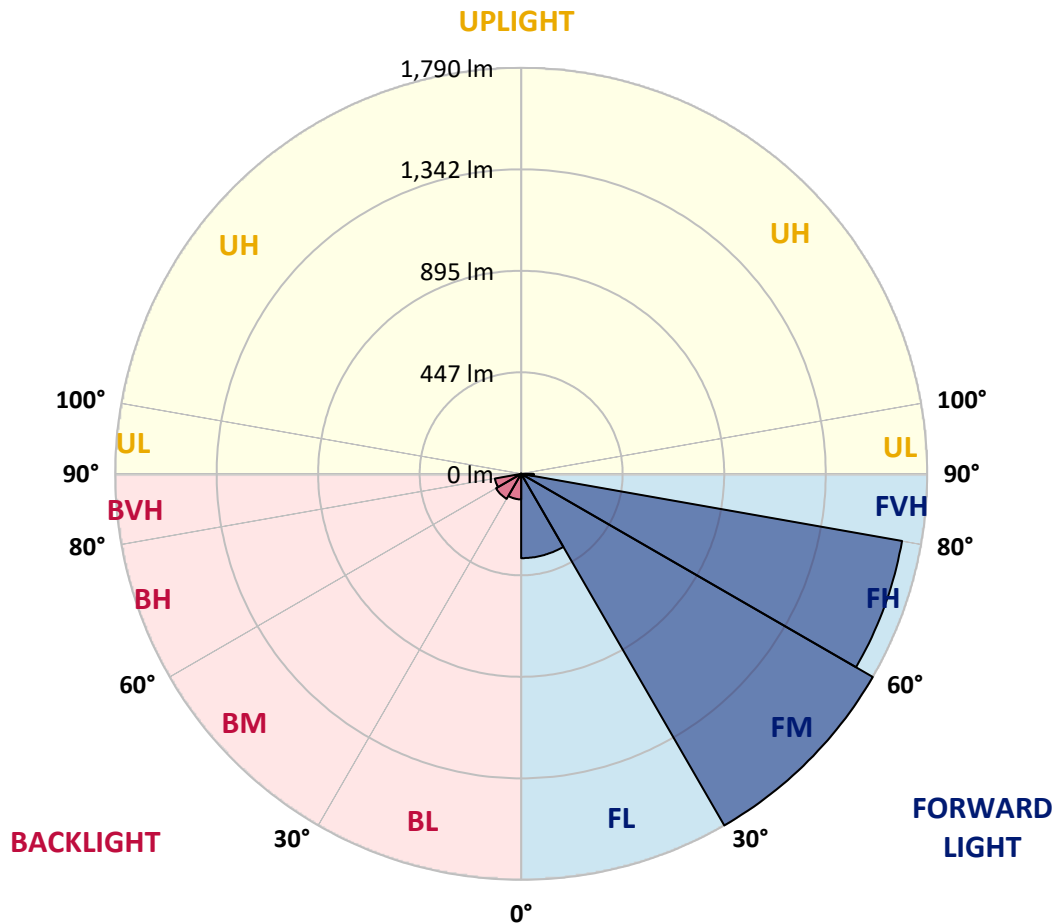
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.7	8.7			
FM	(30°-60°)	1789.6	41.8			
FH	(60°-80°)	1704.7	39.8			G1/1800
FVH	(80°-90°)	55.4	1.3			G1/100
BL	(0°-30°)	112.7	2.6	B1/500		
BM	(30°-60°)	127.5	3.0	B0/220		
BH	(60°-80°)	117.7	2.7	B1/500		G1/500
BVH	(80°-90°)	2.7	0.1			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°	64°	65°	75°	85°
0°	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2
2.5°	1120.1	1131.7	1124.8	1120.1	1117.8	1106.2	1101.6	1083.0	1087.7	1069.1	1055.2
5°	1087.7	1090.0	1094.6	1099.3	1115.5	1110.9	1101.6	1087.7	1085.3	1064.5	1032.0
7.5°	1006.5	1008.8	1015.8	1034.3	1041.3	1048.2	1071.4	1076.1	1076.1	1039.0	997.2
10°	927.6	923.0	932.3	941.6	967.1	997.2	1013.5	1034.3	1036.6	1020.4	976.3
12.5°	853.4	848.8	862.7	876.6	906.8	936.9	967.1	999.5	1006.5	1011.1	955.5
15°	795.5	800.1	807.1	823.3	853.4	892.9	932.3	967.1	969.4	999.5	943.9
17.5°	758.3	758.3	765.3	781.5	811.7	851.1	895.2	941.6	948.5	994.9	939.2
20°	756.0	751.4	749.1	756.0	779.2	809.4	869.7	930.0	934.6	990.3	946.2
22.5°	767.6	760.7	756.0	751.4	760.7	786.2	846.5	911.4	923.0	990.3	948.5
25°	788.5	786.2	781.5	769.9	760.7	774.6	823.3	902.1	913.7	992.6	957.8
27.5°	827.9	823.3	818.6	800.1	779.2	769.9	807.1	888.2	902.1	1001.9	971.7
30°	878.9	878.9	876.6	858.1	818.6	783.9	809.4	878.9	890.5	1011.1	983.3
32.5°	948.5	948.5	946.2	932.3	881.3	823.3	821.0	883.6	897.5	1029.7	997.2
35°	1025.0	1018.1	1020.4	1015.8	962.4	878.9	855.8	909.1	913.7	1057.5	1013.5
37.5°	1078.4	1092.3	1106.2	1113.2	1066.8	960.1	916.0	943.9	950.8	1103.9	1041.3
40°	1175.8	1180.4	1199.0	1219.9	1192.0	1064.5	1004.2	1006.5	1013.5	1152.6	1092.3
42.5°	1259.3	1257.0	1298.7	1331.2	1317.3	1201.3	1115.5	1103.9	1108.5	1247.7	1168.8
45°	1338.1	1349.7	1410.0	1484.2	1484.2	1363.6	1259.3	1231.4	1229.1	1389.1	1291.7
47.5°	1426.3	1449.4	1530.6	1648.9	1702.2	1563.1	1435.5	1400.7	1384.5	1565.4	1477.3
50°	1519.0	1539.9	1628.0	1771.8	1941.1	1859.9	1653.5	1611.8	1625.7	1778.8	1683.7
52.5°	1604.8	1611.8	1686.0	1827.5	2082.6	2258.8	1968.9	1910.9	1899.4	2040.8	1936.5
55°	1628.0	1639.6	1704.5	1829.8	2156.8	2558.0	2632.2	2270.4	2249.5	2282.0	2186.9
57.5°	1588.6	1604.8	1667.4	1771.8	2166.1	2771.3	3172.5	2743.5	2711.0	2518.6	2493.0
60°	1372.9	1396.1	1451.8	1588.6	2006.0	2891.9	3578.4	3339.5	3274.6	2815.4	2931.4
62.5°	1090.0	1073.7	1180.4	1354.4	1669.8	2734.2	3954.1	4042.2	4000.5	3288.5	3481.0
65°	667.9	670.2	700.4	902.1	1340.4	2249.5	4260.2	4881.7	4884.0	3975.0	3859.0
67.5°	466.1	461.5	480.1	600.7	804.7	1827.5	4102.5	5538.0	5517.2	4318.2	3768.6
70°	361.8	354.8	352.5	440.6	565.9	1113.2	3399.8	5236.6	5211.0	4053.8	3105.3
72.5°	262.1	255.1	266.7	354.8	491.7	658.6	2421.2	4012.1	3975.0	2949.9	1890.1
75°	164.7	167.0	190.2	266.7	461.5	468.5	1421.6	2237.9	2247.2	1417.0	772.3
77.5°	95.1	92.8	116.0	187.8	382.7	433.7	728.2	1043.6	978.7	475.4	225.0
80°	41.7	41.7	60.3	132.2	278.3	431.4	445.3	403.5	394.2	113.6	76.5
82.5°	18.6	18.6	27.8	76.5	185.5	345.5	375.7	257.4	231.9	44.1	44.1
85°	2.3	2.3	11.6	39.4	88.1	176.3	317.7	208.7	180.9	20.9	27.8
87.5°	0.0	0.0	4.6	11.6	25.5	92.8	185.5	125.2	109.0	9.3	11.6
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°	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2	1055.2
2.5°	1043.6	1029.7	1004.2	974.0	936.9	918.4	890.5	862.7	853.4	851.1	846.5
5°	1020.4	992.6	934.6	869.7	797.8	730.5	674.9	630.8	596.0	584.4	565.9
7.5°	976.3	946.2	851.1	744.4	637.8	533.4	440.6	380.3	345.5	336.3	331.6
10°	943.9	897.5	765.3	619.2	468.5	359.5	271.3	215.7	185.5	171.6	171.6
12.5°	918.4	862.7	684.1	498.6	336.3	225.0	160.0	120.6	109.0	106.7	104.4
15°	902.1	821.0	607.6	382.7	236.5	141.5	104.4	97.4	95.1	92.8	92.8
17.5°	890.5	783.9	531.1	301.5	160.0	99.7	90.4	88.1	85.8	85.8	85.8
20°	883.6	753.7	452.2	229.6	106.7	85.8	81.2	78.8	76.5	76.5	74.2
22.5°	869.7	723.6	385.0	167.0	85.8	76.5	71.9	69.6	64.9	64.9	64.9
25°	867.3	693.4	322.4	116.0	76.5	69.6	62.6	58.0	55.7	53.3	53.3
27.5°	865.0	660.9	276.0	85.8	69.6	60.3	55.7	48.7	44.1	44.1	41.7
30°	851.1	628.5	229.6	74.2	62.6	53.3	46.4	41.7	37.1	34.8	34.8
32.5°	848.8	591.4	185.5	67.3	55.7	46.4	39.4	34.8	30.1	30.1	30.1
35°	841.8	545.0	143.8	60.3	51.0	41.7	34.8	30.1	25.5	25.5	25.5
37.5°	841.8	512.5	106.7	55.7	46.4	34.8	27.8	25.5	20.9	20.9	20.9
40°	858.1	477.7	81.2	51.0	41.7	32.5	25.5	20.9	18.6	18.6	18.6
42.5°	895.2	456.9	64.9	48.7	37.1	27.8	23.2	18.6	16.2	13.9	13.9
45°	971.7	461.5	60.3	44.1	32.5	25.5	18.6	16.2	13.9	11.6	11.6
47.5°	1096.9	482.4	55.7	39.4	27.8	20.9	16.2	11.6	9.3	9.3	9.3
50°	1236.1	524.1	53.3	34.8	25.5	18.6	13.9	9.3	9.3	7.0	7.0
52.5°	1440.2	591.4	48.7	32.5	23.2	16.2	11.6	9.3	7.0	7.0	7.0
55°	1688.3	707.3	44.1	30.1	18.6	13.9	9.3	7.0	4.6	4.6	4.6
57.5°	1975.9	839.5	39.4	25.5	16.2	11.6	9.3	4.6	4.6	2.3	2.3
60°	2356.2	1020.4	34.8	23.2	13.9	9.3	7.0	4.6	2.3	2.3	2.3
62.5°	2868.7	1196.7	30.1	18.6	11.6	7.0	4.6	4.6	2.3	2.3	2.3
65°	3109.9	1247.7	25.5	16.2	9.3	7.0	4.6	2.3	2.3	0.0	0.0
67.5°	2989.3	1141.0	20.9	13.9	9.3	7.0	4.6	2.3	0.0	0.0	0.0
70°	2353.9	858.1	20.9	11.6	9.3	7.0	4.6	2.3	0.0	0.0	0.0
72.5°	1352.0	519.5	18.6	11.6	7.0	7.0	4.6	2.3	2.3	0.0	0.0
75°	535.7	167.0	16.2	9.3	7.0	7.0	4.6	2.3	0.0	0.0	0.0
77.5°	143.8	62.6	13.9	9.3	9.3	9.3	4.6	2.3	0.0	0.0	0.0
80°	46.4	23.2	13.9	9.3	9.3	11.6	9.3	4.6	2.3	0.0	0.0
82.5°	34.8	16.2	13.9	9.3	9.3	9.3	9.3	4.6	2.3	0.0	0.0
85°	23.2	7.0	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	0.0
87.5°	11.6	4.6	2.3	2.3	2.3	2.3	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)