

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: P534608

Luminaire Tested: **GALN-SA6A-AMB-U-SL4**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-AMB-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5863 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

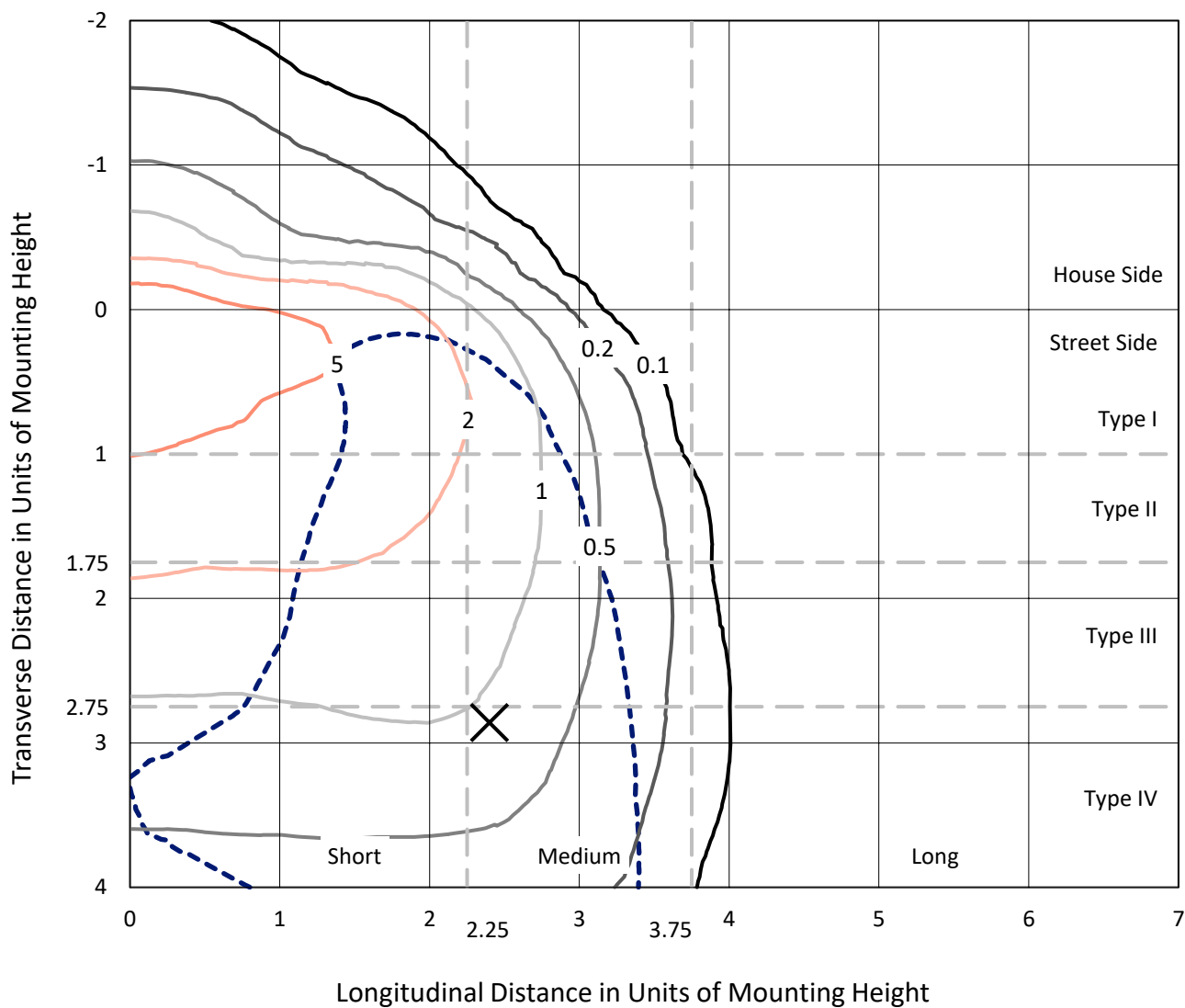
Input Watts (W): 118.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

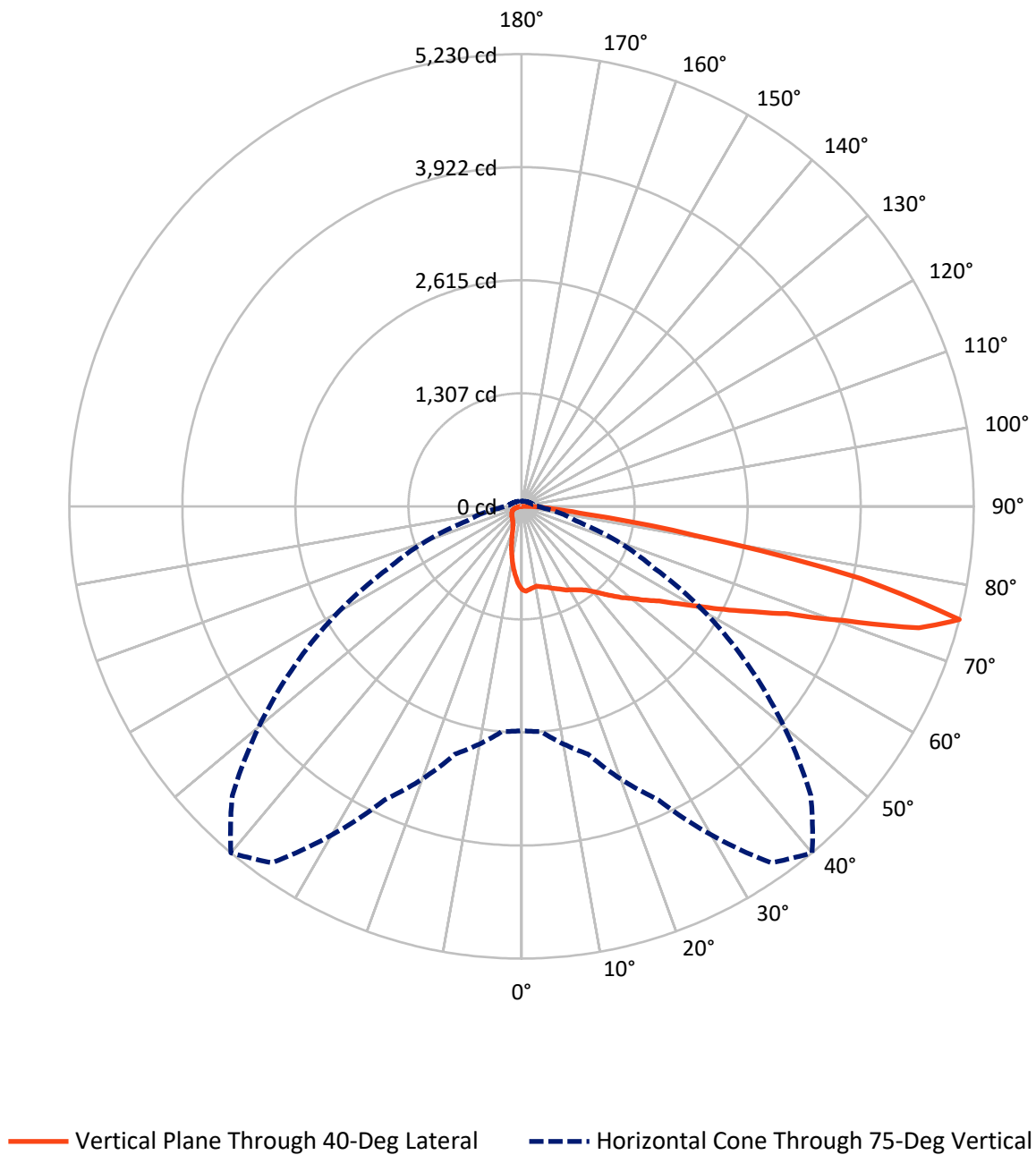
✕ Max cd
 --- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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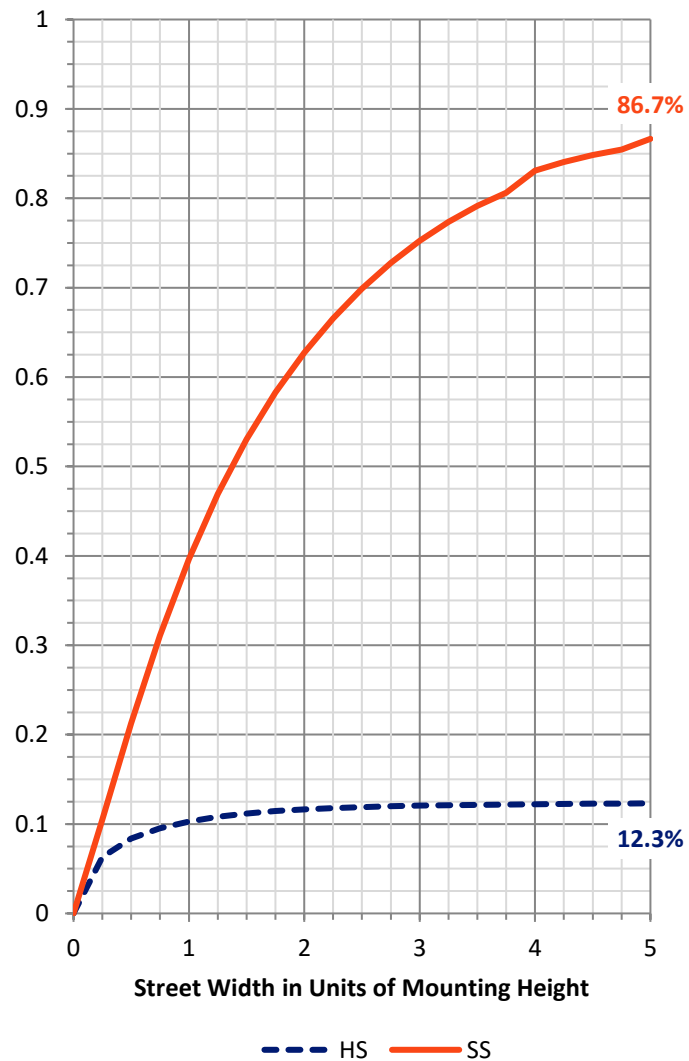
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	729.4	0.0	729.4
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	5133.6	0.0	5133.6
	% Fixture	87.6	0.0	87.6
Total	Lumens	5863.0	0.0	5863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.4
10°-20°	208.4	3.6
20°-30°	321.9	5.5
30°-40°	468.4	8.0
40°-50°	700.9	12.0
50°-60°	1047.3	17.9
60°-70°	1475.5	25.2
70°-80°	1357.6	23.2
80°-90°	200.2	3.4
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°	5863.0	100.0
0°-180°	5863.0	100.0

Coefficient of Utilization



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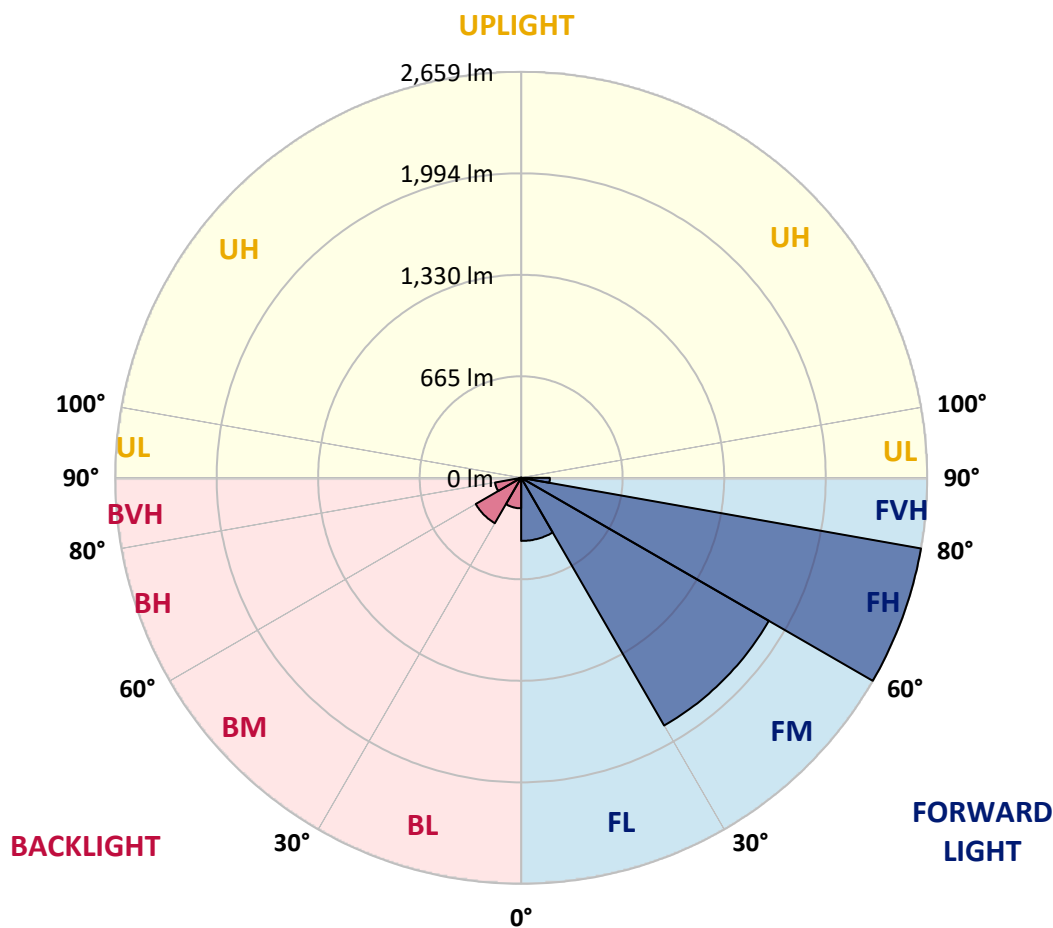
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.6	7.1			
FM	(30°-60°)	1873.2	31.9			
FH	(60°-80°)	2659.1	45.4			G2/5000
FVH	(80°-90°)	187.7	3.2			G2/225
BL	(0°-30°)	199.6	3.4	B1/500		
BM	(30°-60°)	343.3	5.9	B1/1000		
BH	(60°-80°)	174.0	3.0	B1/500		G1/500
BVH	(80°-90°)	12.5	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7
2.5°	981.2	983.9	981.2	981.2	975.9	981.2	973.3	970.6	965.3	965.3	954.7
5°	968.0	973.3	968.0	968.0	965.3	965.3	957.4	954.7	946.8	946.8	933.5
7.5°	946.8	944.1	946.8	946.8	946.8	949.4	944.1	936.1	933.5	922.9	917.6
10°	925.5	930.8	928.2	936.1	938.8	938.8	938.8	933.5	928.2	914.9	907.0
12.5°	904.3	907.0	922.9	933.5	946.8	952.1	949.4	944.1	936.1	920.2	899.0
15°	909.6	901.7	917.6	941.5	960.0	968.0	957.4	957.4	938.8	920.2	899.0
17.5°	907.0	907.0	928.2	957.4	981.2	983.9	983.9	970.6	952.1	933.5	899.0
20°	920.2	920.2	946.8	978.6	1005.1	1010.4	1007.8	981.2	960.0	938.8	917.6
22.5°	946.8	949.4	975.9	1013.1	1026.3	1034.3	1026.3	999.8	975.9	960.0	925.5
25°	989.2	986.5	1007.8	1044.9	1066.1	1060.8	1060.8	1018.4	991.8	981.2	952.1
27.5°	1026.3	1029.0	1042.2	1079.4	1090.0	1095.3	1084.7	1036.9	1013.1	1015.7	981.2
30°	1076.7	1082.0	1090.0	1108.5	1116.5	1119.1	1119.1	1071.4	1044.9	1060.8	1013.1
32.5°	1140.3	1137.7	1140.3	1153.6	1140.3	1148.3	1145.7	1100.6	1087.3	1121.8	1063.4
35°	1209.3	1209.3	1201.3	1193.4	1172.2	1182.8	1182.8	1140.3	1145.7	1201.3	1116.5
37.5°	1280.9	1270.3	1257.0	1233.2	1217.3	1230.5	1238.5	1201.3	1225.2	1307.4	1214.6
40°	1347.2	1326.0	1299.5	1286.2	1275.6	1296.8	1307.4	1286.2	1320.7	1445.3	1344.6
42.5°	1387.0	1384.3	1352.5	1336.6	1347.2	1381.7	1387.0	1376.4	1445.3	1604.4	1490.4
45°	1437.4	1424.1	1394.9	1387.0	1432.1	1477.1	1493.1	1479.8	1585.9	1803.3	1644.2
47.5°	1469.2	1455.9	1432.1	1450.6	1516.9	1577.9	1612.4	1612.4	1750.3	2012.8	1811.3
50°	1501.0	1482.5	1469.2	1530.2	1599.1	1676.0	1723.8	1755.6	1928.0	2225.0	2004.9
52.5°	1556.7	1524.9	1511.6	1617.7	1702.6	1803.3	1882.9	1914.7	2134.8	2458.4	2190.5
55°	1631.0	1609.7	1570.0	1713.2	1824.6	1930.6	2031.4	2118.9	2336.4	2670.5	2344.3
57.5°	1710.5	1686.7	1654.8	1832.5	1996.9	2121.6	2222.4	2349.6	2572.4	2903.9	2484.9
60°	1814.0	1790.1	1766.2	1973.1	2203.8	2341.7	2469.0	2609.5	2824.4	3092.2	2601.6
62.5°	1914.7	1893.5	1890.9	2126.9	2442.5	2622.8	2726.2	2882.7	3057.7	3246.0	2654.6
65°	2039.4	2028.8	2023.5	2315.2	2750.1	2933.1	3044.5	3208.9	3328.2	3376.0	2583.0
67.5°	2156.1	2169.3	2214.4	2545.9	3084.2	3309.7	3479.4	3654.4	3614.6	3386.6	2211.7
70°	2376.2	2381.5	2487.6	2885.3	3612.0	3951.4	4147.7	4123.8	3651.8	2935.7	1506.3
72.5°	2609.5	2649.3	2845.6	3399.8	4423.5	4805.4	4863.7	4187.5	3084.2	1861.7	647.1
75°	2593.6	2614.8	2964.9	3744.6	5030.8	5229.7	4731.1	3195.6	1699.9	649.7	267.8
77.5°	2068.5	2126.9	2506.1	3309.7	4301.5	4012.4	3071.0	1588.5	543.7	238.7	161.8
80°	970.6	1082.0	1312.7	1726.4	2317.8	2026.1	1312.7	647.1	273.2	153.8	114.0
82.5°	453.5	472.1	525.1	572.8	774.4	753.2	543.7	509.2	209.5	92.8	55.7
85°	310.3	336.8	373.9	328.8	355.4	352.7	376.6	503.9	145.9	53.0	34.5
87.5°	212.2	225.4	251.9	193.6	214.8	198.9	236.0	434.9	47.7	21.2	10.6
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°	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7
2.5°	949.4	944.1	928.2	925.5	922.9	907.0	904.3	896.4	891.1	888.4	891.1
5°	928.2	920.2	901.7	885.8	856.6	830.1	811.5	792.9	779.7	782.3	782.3
7.5°	909.6	901.7	872.5	843.3	792.9	755.8	710.7	676.3	655.0	639.1	644.4
10°	896.4	883.1	846.0	792.9	729.3	665.6	615.3	559.6	525.1	511.8	511.8
12.5°	891.1	875.2	814.2	742.6	660.3	583.4	509.2	450.8	408.4	397.8	392.5
15°	885.8	856.6	779.7	686.9	586.1	498.6	419.0	363.3	315.6	297.0	299.7
17.5°	883.1	848.6	747.9	636.5	519.8	416.4	342.1	283.8	257.2	244.0	244.0
20°	885.8	840.7	721.3	575.5	445.5	344.8	275.8	241.3	225.4	217.5	220.1
22.5°	893.7	830.1	676.3	517.1	384.5	289.1	241.3	222.8	212.2	206.9	206.9
25°	904.3	830.1	647.1	453.5	328.8	254.6	220.1	209.5	201.6	201.6	196.2
27.5°	925.5	832.7	607.3	400.4	283.8	228.1	209.5	198.9	193.6	193.6	193.6
30°	936.1	830.1	570.2	352.7	249.3	212.2	196.2	193.6	190.9	185.6	185.6
32.5°	962.7	827.4	527.7	310.3	225.4	198.9	188.3	185.6	183.0	180.3	180.3
35°	1007.8	838.0	474.7	275.8	206.9	188.3	180.3	177.7	175.0	175.0	172.4
37.5°	1063.4	853.9	437.6	246.6	193.6	177.7	172.4	169.7	169.7	169.7	169.7
40°	1151.0	888.4	405.8	228.1	183.0	169.7	164.4	164.4	164.4	161.8	161.8
42.5°	1249.1	930.8	379.2	214.8	177.7	164.4	159.1	156.5	156.5	156.5	156.5
45°	1365.8	975.9	355.4	204.2	175.0	161.8	156.5	151.2	151.2	151.2	148.5
47.5°	1490.4	1029.0	336.8	198.9	169.7	159.1	151.2	148.5	145.9	143.2	143.2
50°	1625.7	1090.0	328.8	196.2	167.1	153.8	145.9	143.2	140.6	135.3	135.3
52.5°	1753.0	1151.0	334.1	193.6	164.4	148.5	140.6	140.6	135.3	129.9	132.6
55°	1856.4	1209.3	339.5	193.6	161.8	140.6	135.3	135.3	129.9	124.6	124.6
57.5°	1949.2	1251.7	342.1	196.2	161.8	135.3	127.3	129.9	124.6	122.0	122.0
60°	2018.2	1267.6	342.1	201.6	161.8	129.9	119.3	124.6	122.0	116.7	119.3
62.5°	2012.8	1204.0	318.2	204.2	161.8	127.3	114.0	119.3	124.6	119.3	119.3
65°	1832.5	960.0	275.8	190.9	159.1	124.6	106.1	114.0	122.0	119.3	119.3
67.5°	1387.0	636.5	222.8	172.4	145.9	119.3	100.8	100.8	108.7	106.1	108.7
70°	811.5	344.8	183.0	148.5	127.3	108.7	92.8	87.5	87.5	87.5	87.5
72.5°	334.1	201.6	148.5	124.6	108.7	92.8	82.2	74.3	71.6	71.6	71.6
75°	185.6	148.5	122.0	100.8	87.5	76.9	71.6	63.6	61.0	61.0	61.0
77.5°	135.3	122.0	98.1	76.9	66.3	61.0	55.7	53.0	50.4	50.4	50.4
80°	103.4	95.5	74.3	58.3	50.4	42.4	42.4	39.8	39.8	39.8	39.8
82.5°	61.0	71.6	53.0	39.8	37.1	31.8	29.2	29.2	29.2	26.5	26.5
85°	39.8	53.0	31.8	23.9	18.6	15.9	18.6	15.9	15.9	13.3	13.3
87.5°	8.0	15.9	8.0	2.7	2.7	2.7	2.7	2.7	2.7	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)