

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: P534603

Luminaire Tested: **GALN-SA6A-AMB-U-SL2-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-5)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4887 lumens
Efficiency: N/A
Efficacy: 41.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

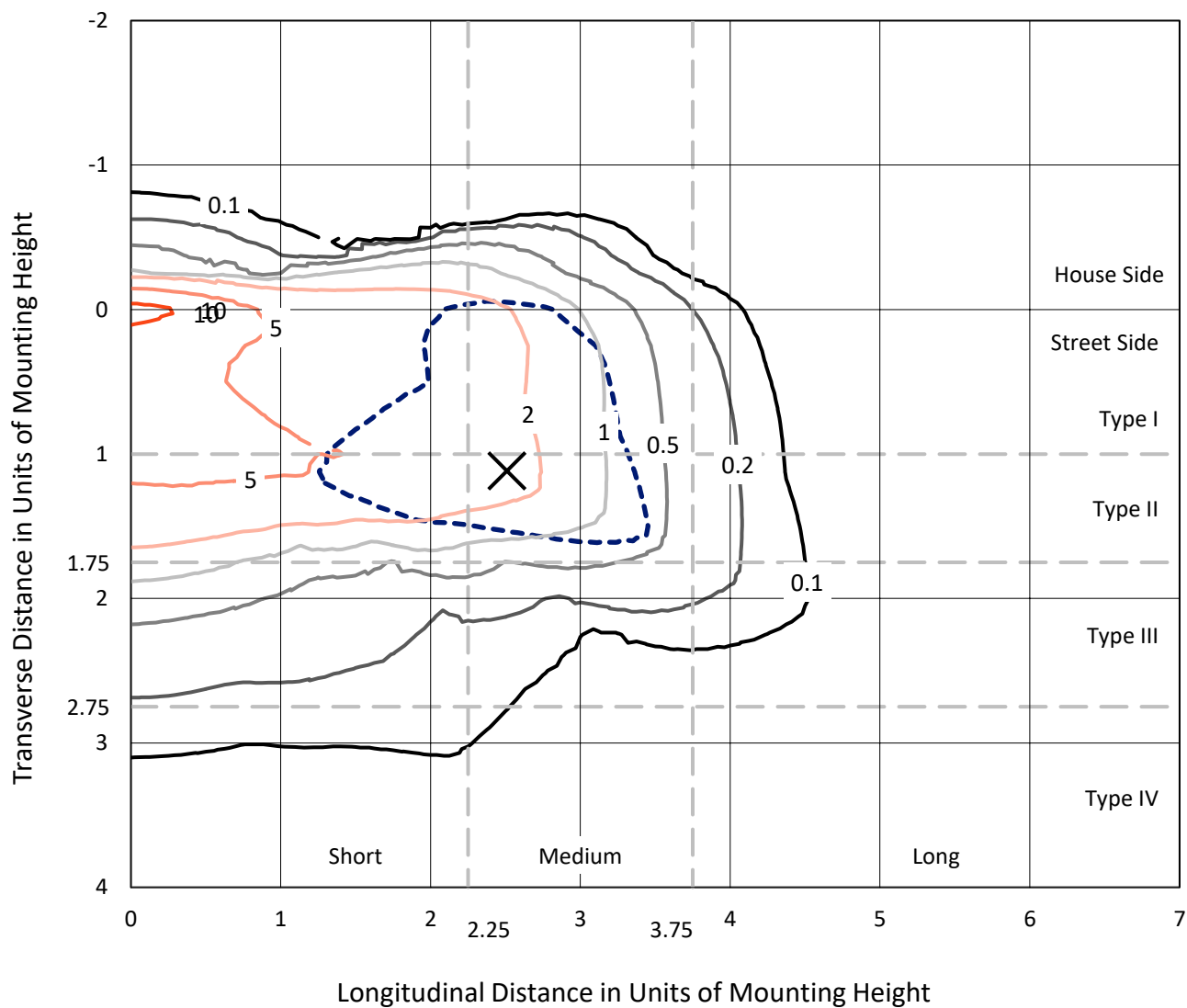
Input Watts (W): 118.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

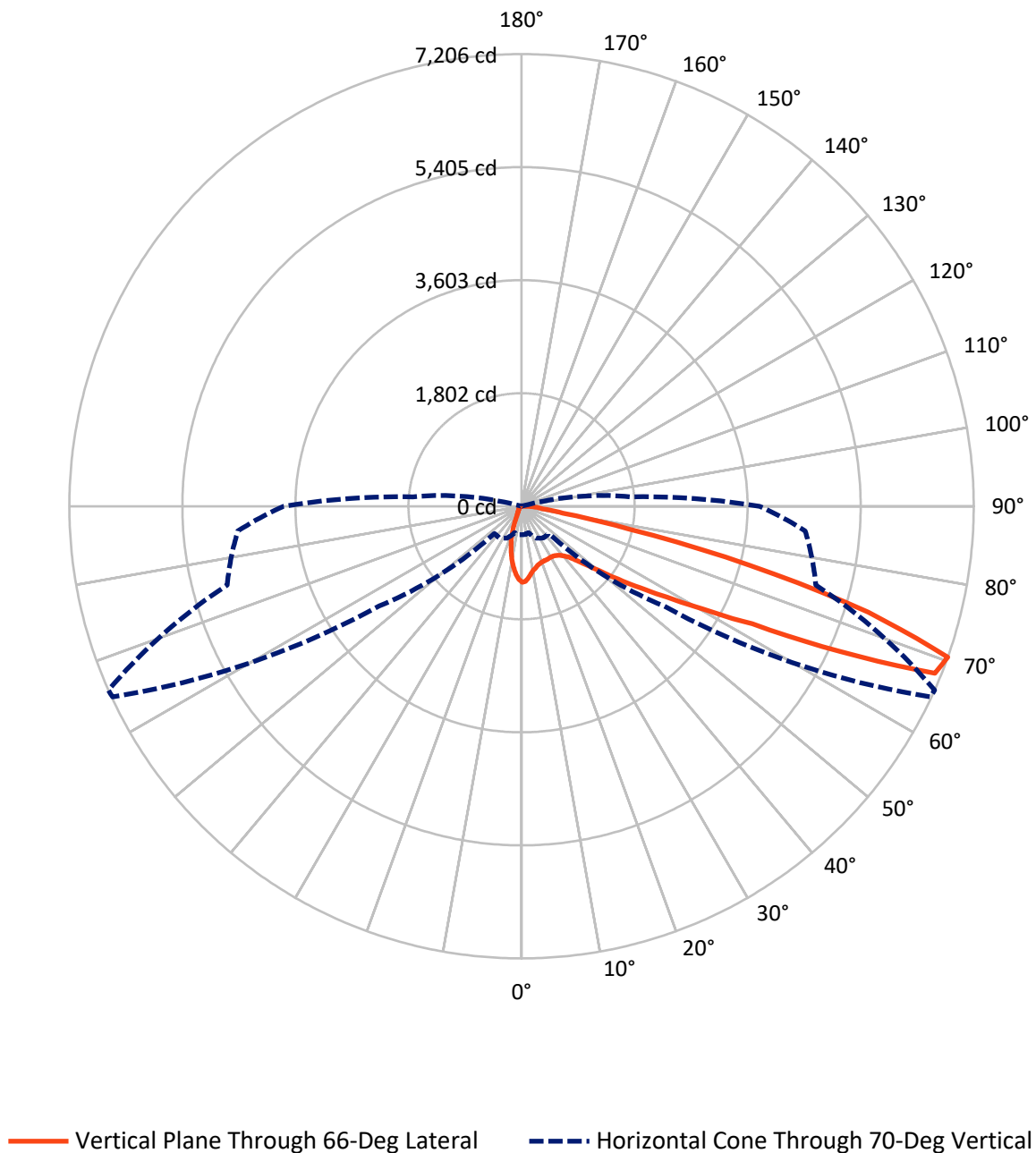
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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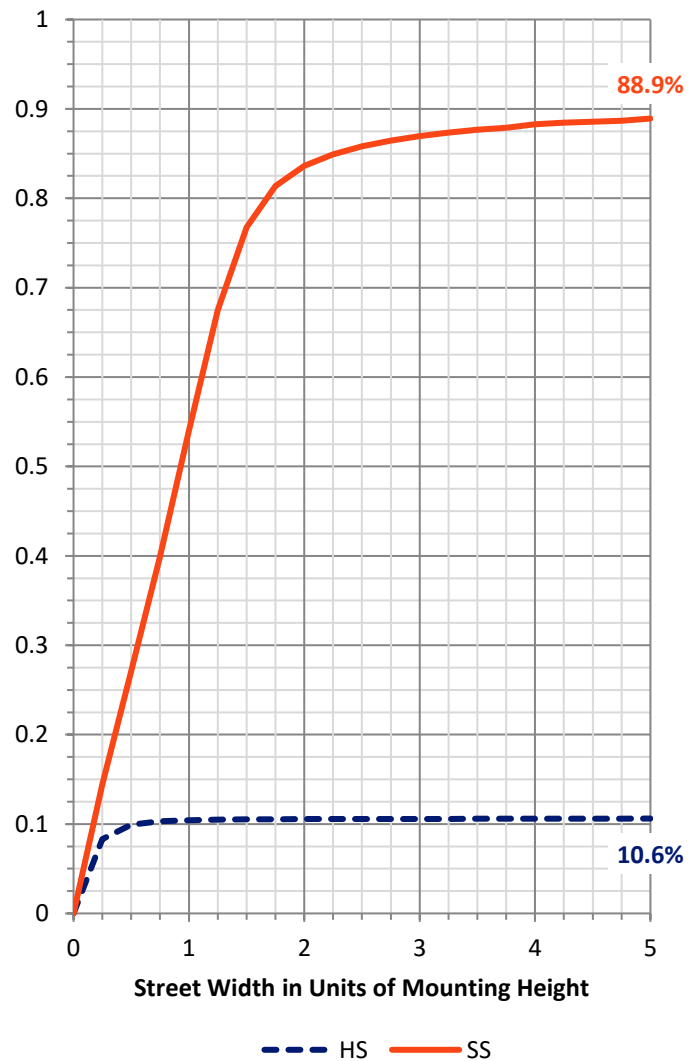
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.6	0.0	523.6
	% Fixture	10.7	0.0	10.7
Street Side	Lumens	4363.4	0.0	4363.4
	% Fixture	89.3	0.0	89.3
Total	Lumens	4887.0	0.0	4887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.9
10°-20°	189.6	3.9
20°-30°	270.7	5.5
30°-40°	394.9	8.1
40°-50°	642.1	13.1
50°-60°	1107.4	22.7
60°-70°	1411.1	28.9
70°-80°	706.2	14.4
80°-90°	72.7	1.5
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°	4887.0	100.0
0°-180°	4887.0	100.0

Coefficient of Utilization



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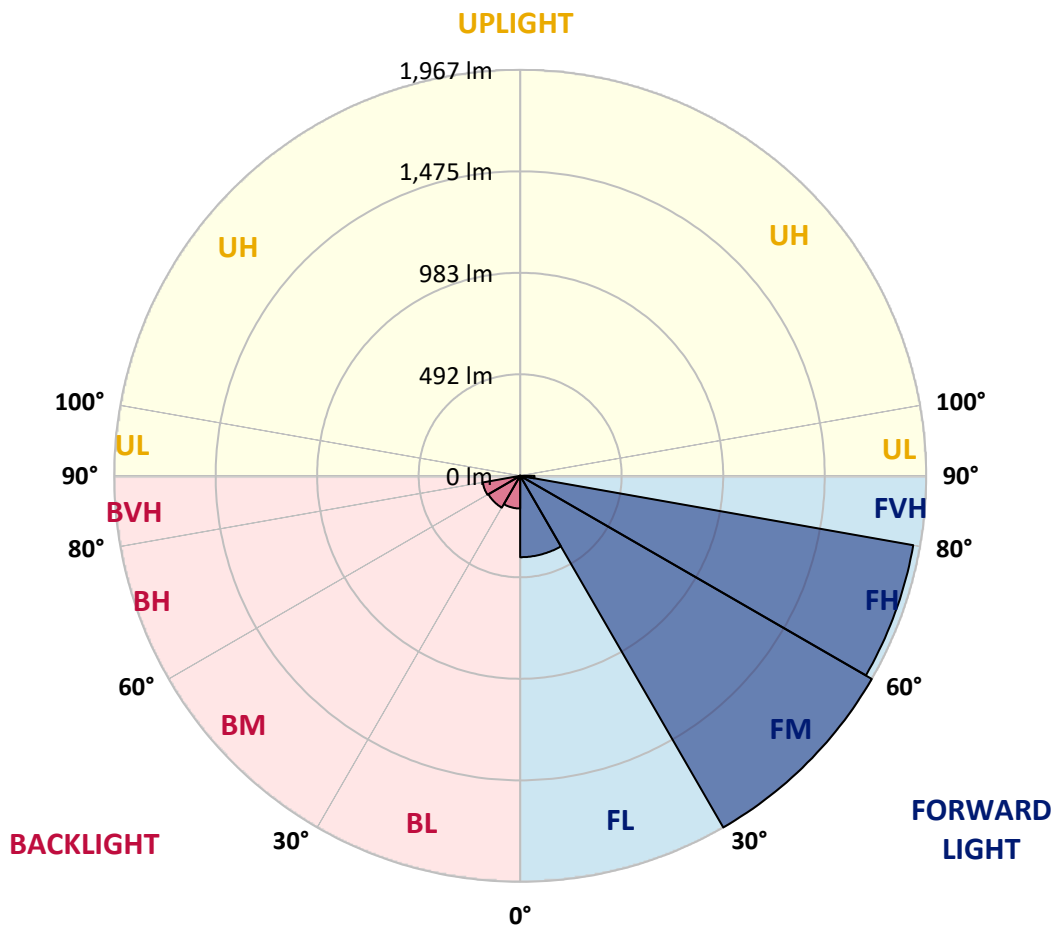
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.3	8.1			
FM	(30°-60°)	1966.5	40.2			
FH	(60°-80°)	1933.3	39.6			G2/5000
FVH	(80°-90°)	69.2	1.4			G1/100
BL	(0°-30°)	158.4	3.2	B1/500		
BM	(30°-60°)	177.9	3.6	B0/220		
BH	(60°-80°)	183.9	3.8	B1/500		G1/500
BVH	(80°-90°)	3.5	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1132.5	1143.1	1132.5	1145.8	1148.4	1161.7	1182.9	1196.2	1198.8	1209.4	1212.1
5°	1045.0	1045.0	1050.3	1060.9	1074.1	1090.1	1108.6	1127.2	1148.4	1174.9	1198.8
7.5°	976.0	965.4	968.1	976.0	999.9	1021.1	1047.6	1079.5	1084.8	1132.5	1177.6
10°	901.8	899.1	904.4	923.0	938.9	957.5	989.3	1029.1	1034.4	1087.4	1167.0
12.5°	846.1	843.4	851.4	856.7	883.2	909.7	946.8	994.6	1007.8	1060.9	1161.7
15°	803.6	803.6	808.9	822.2	843.4	875.2	912.4	968.1	973.4	1042.3	1172.3
17.5°	793.0	785.1	785.1	793.0	811.6	843.4	883.2	952.1	957.5	1042.3	1185.5
20°	795.7	790.4	785.1	779.8	795.7	832.8	869.9	936.2	944.2	1042.3	1209.4
22.5°	811.6	808.9	801.0	793.0	795.7	819.5	864.6	928.3	941.5	1039.7	1228.0
25°	854.0	848.7	840.8	819.5	806.3	819.5	864.6	928.3	941.5	1037.0	1243.9
27.5°	901.8	893.8	893.8	875.2	838.1	830.1	867.3	930.9	936.2	1037.0	1262.5
30°	978.7	970.7	962.8	941.5	899.1	862.0	883.2	936.2	936.2	1039.7	1267.8
32.5°	1066.2	1066.2	1055.6	1037.0	973.4	901.8	899.1	938.9	941.5	1029.1	1267.8
35°	1169.6	1169.6	1177.6	1156.4	1074.1	965.4	936.2	957.5	962.8	1039.7	1257.2
37.5°	1257.2	1257.2	1275.7	1291.6	1198.8	1052.9	989.3	991.9	989.3	1058.2	1265.1
40°	1357.9	1360.6	1389.8	1421.6	1363.2	1167.0	1068.8	1042.3	1039.7	1082.1	1291.6
42.5°	1469.3	1474.6	1525.0	1572.8	1525.0	1320.8	1180.2	1113.9	1106.0	1148.4	1344.7
45°	1564.8	1583.4	1660.3	1734.6	1726.6	1511.8	1323.5	1235.9	1230.6	1251.8	1429.5
47.5°	1742.5	1747.8	1827.4	1928.2	1949.4	1753.1	1506.5	1408.3	1397.7	1397.7	1567.5
50°	1928.2	1946.7	2013.0	2161.6	2265.0	2028.9	1739.9	1633.8	1625.8	1596.6	1766.4
52.5°	2021.0	2034.3	2121.8	2280.9	2578.0	2448.0	2023.6	1949.4	1928.2	1891.0	2013.0
55°	1941.4	1949.4	2021.0	2254.4	2705.3	3042.1	2453.3	2288.9	2291.5	2214.6	2389.6
57.5°	1615.2	1623.2	1684.2	1941.4	2620.4	3439.9	3087.2	2776.9	2731.8	2556.7	2726.5
60°	1206.8	1198.8	1182.9	1371.2	2105.9	3503.6	4108.3	3378.9	3328.5	2869.7	3103.1
62.5°	904.4	893.8	872.6	915.0	1249.2	3084.5	4763.4	4219.7	4126.9	3235.7	3540.7
65°	702.8	689.6	692.2	713.4	779.8	1991.8	4978.2	5819.0	5577.6	3808.6	4087.1
67.5°	557.0	551.7	541.1	636.5	628.6	968.1	4394.7	7123.9	7105.3	4585.7	4787.3
70°	450.9	453.5	437.6	562.3	612.7	612.7	2771.6	7190.2	7206.1	4856.2	4537.9
72.5°	326.2	323.6	331.5	461.5	607.4	583.5	1214.7	5744.7	5781.8	4272.7	3540.7
75°	177.7	185.7	217.5	334.2	604.7	570.2	596.7	3715.8	3755.5	2615.1	1723.9
77.5°	90.2	92.8	116.7	204.2	488.0	554.3	519.8	1769.0	1742.5	1005.2	456.2
80°	42.4	42.4	55.7	122.0	318.3	562.3	477.4	697.5	671.0	204.2	106.1
82.5°	15.9	15.9	26.5	71.6	177.7	472.1	427.0	368.7	342.1	63.7	66.3
85°	2.7	2.7	13.3	39.8	79.6	228.1	352.7	291.7	259.9	29.2	37.1
87.5°	0.0	0.0	5.3	10.6	23.9	108.7	177.7	175.0	151.2	13.3	18.6
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°	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1201.5	1193.5	1174.9	1164.3	1137.8	1116.6	1098.0	1068.8	1050.3	1058.2	1063.5
5°	1193.5	1177.6	1140.5	1084.8	1029.1	965.4	915.0	856.7	840.8	824.8	838.1
7.5°	1177.6	1151.1	1079.5	986.6	880.5	793.0	702.8	631.2	583.5	549.0	543.7
10°	1164.3	1127.2	1007.8	880.5	726.7	591.4	456.2	360.7	291.7	265.2	254.6
12.5°	1151.1	1106.0	944.2	758.5	562.3	371.3	230.7	159.1	132.6	130.0	127.3
15°	1159.0	1092.7	880.5	641.8	395.2	201.6	127.3	114.0	114.0	114.0	111.4
17.5°	1169.6	1071.5	822.2	527.8	230.7	119.3	108.7	103.4	100.8	100.8	100.8
20°	1177.6	1050.3	750.6	395.2	132.6	103.4	98.1	92.8	87.5	87.5	87.5
22.5°	1169.6	1037.0	668.4	265.2	103.4	90.2	84.9	79.6	76.9	74.3	71.6
25°	1174.9	1013.1	588.8	164.4	92.8	82.2	74.3	66.3	61.0	58.3	58.3
27.5°	1167.0	989.3	501.3	111.4	82.2	71.6	61.0	55.7	47.7	45.1	45.1
30°	1156.4	965.4	411.1	90.2	74.3	63.7	53.0	45.1	39.8	37.1	37.1
32.5°	1145.8	925.6	318.3	82.2	69.0	55.7	45.1	37.1	34.5	31.8	31.8
35°	1119.2	883.2	230.7	76.9	61.0	47.7	37.1	31.8	29.2	26.5	26.5
37.5°	1108.6	854.0	159.1	69.0	55.7	42.4	31.8	26.5	23.9	23.9	23.9
40°	1113.9	808.9	111.4	63.7	47.7	37.1	29.2	23.9	21.2	18.6	18.6
42.5°	1129.8	795.7	90.2	61.0	42.4	31.8	23.9	18.6	15.9	15.9	15.9
45°	1182.9	798.3	82.2	55.7	37.1	26.5	21.2	15.9	13.3	13.3	13.3
47.5°	1278.4	819.5	76.9	50.4	31.8	23.9	18.6	13.3	10.6	10.6	10.6
50°	1416.3	872.6	74.3	45.1	29.2	21.2	15.9	10.6	8.0	8.0	8.0
52.5°	1633.8	965.4	69.0	39.8	23.9	18.6	10.6	8.0	8.0	5.3	5.3
55°	1925.5	1098.0	63.7	34.5	21.2	13.3	10.6	8.0	5.3	5.3	5.3
57.5°	2246.4	1254.5	55.7	29.2	18.6	13.3	8.0	5.3	5.3	2.7	2.7
60°	2623.0	1490.5	47.7	23.9	15.9	10.6	8.0	5.3	2.7	2.7	2.7
62.5°	3092.5	1784.9	39.8	21.2	13.3	8.0	5.3	2.7	2.7	2.7	2.7
65°	3752.9	2129.7	31.8	15.9	10.6	5.3	5.3	2.7	2.7	0.0	0.0
67.5°	4195.8	2172.2	29.2	15.9	8.0	5.3	5.3	2.7	0.0	0.0	0.0
70°	3792.7	1737.2	23.9	13.3	8.0	5.3	5.3	2.7	0.0	0.0	0.0
72.5°	2700.0	999.9	21.2	10.6	8.0	5.3	5.3	2.7	2.7	0.0	0.0
75°	1190.8	281.1	21.2	10.6	8.0	8.0	8.0	5.3	2.7	0.0	0.0
77.5°	286.4	87.5	18.6	10.6	10.6	10.6	10.6	5.3	2.7	0.0	0.0
80°	71.6	31.8	15.9	10.6	10.6	10.6	10.6	5.3	2.7	2.7	2.7
82.5°	53.0	23.9	15.9	13.3	10.6	8.0	8.0	5.3	2.7	2.7	2.7
85°	31.8	10.6	5.3	5.3	5.3	5.3	5.3	2.7	2.7	2.7	2.7
87.5°	18.6	5.3	5.3	2.7	2.7	2.7	0.0	0.0	0.0	2.7	2.7
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)