

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: P534611

Luminaire Tested: **GALN-SA7A-AMB-U-SL2-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534611
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-SA7A-AMB-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS 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: 5596 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

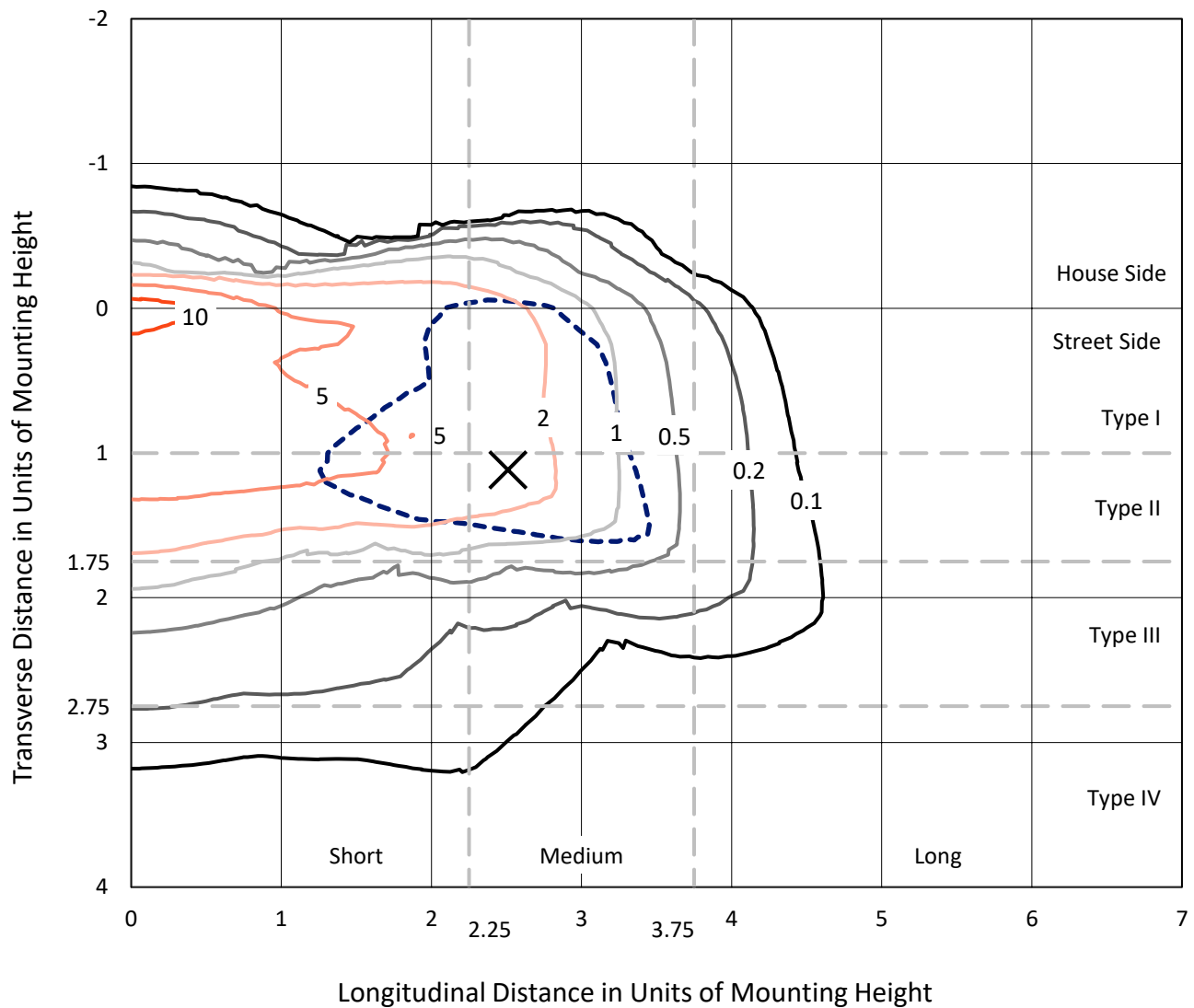
Input Watts (W): 138.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

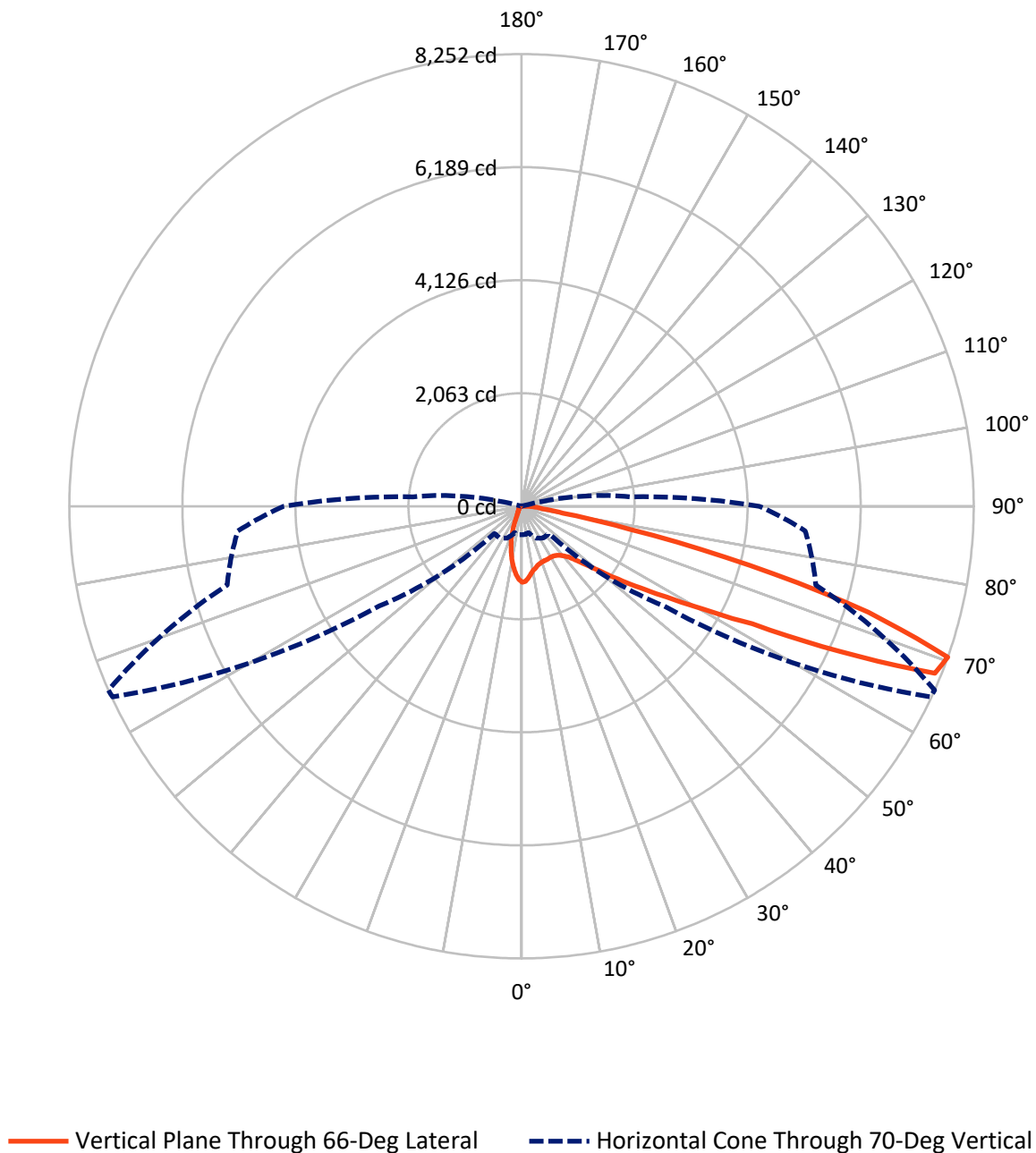
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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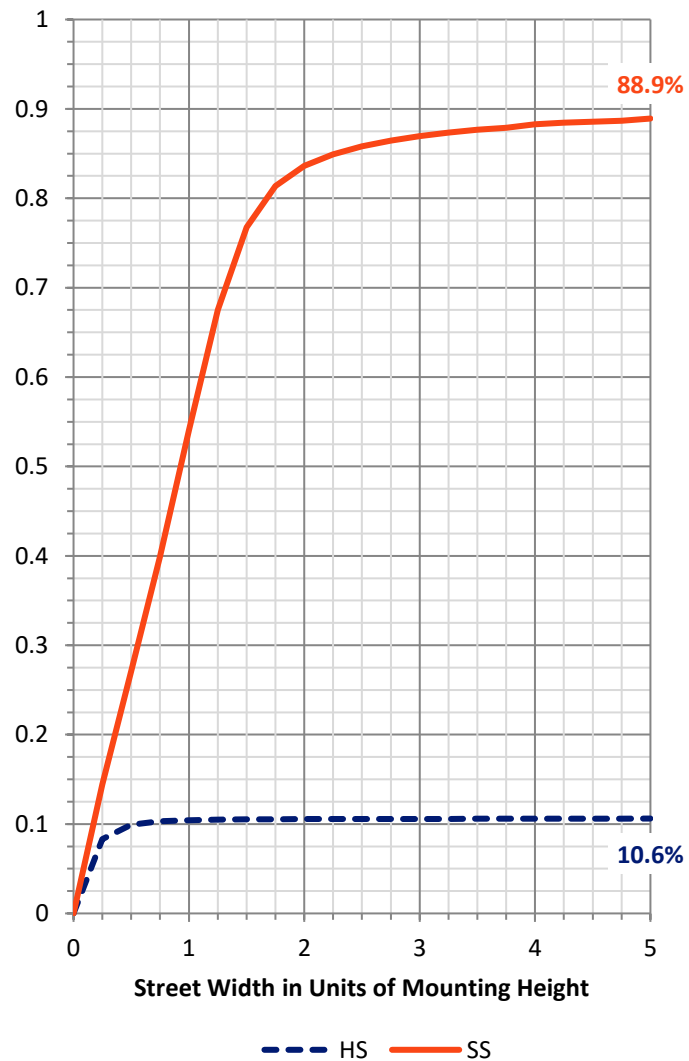
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.5	0.0	599.5
	% Fixture	10.7	0.0	10.7
Street Side	Lumens	4996.4	0.0	4996.4
	% Fixture	89.3	0.0	89.3
Total	Lumens	5596.0	0.0	5596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.9
10°-20°	217.1	3.9
20°-30°	309.9	5.5
30°-40°	452.2	8.1
40°-50°	735.2	13.1
50°-60°	1268.1	22.7
60°-70°	1615.8	28.9
70°-80°	808.6	14.4
80°-90°	83.2	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°	5596.0	100.0
0°-180°	5596.0	100.0

Coefficient of Utilization



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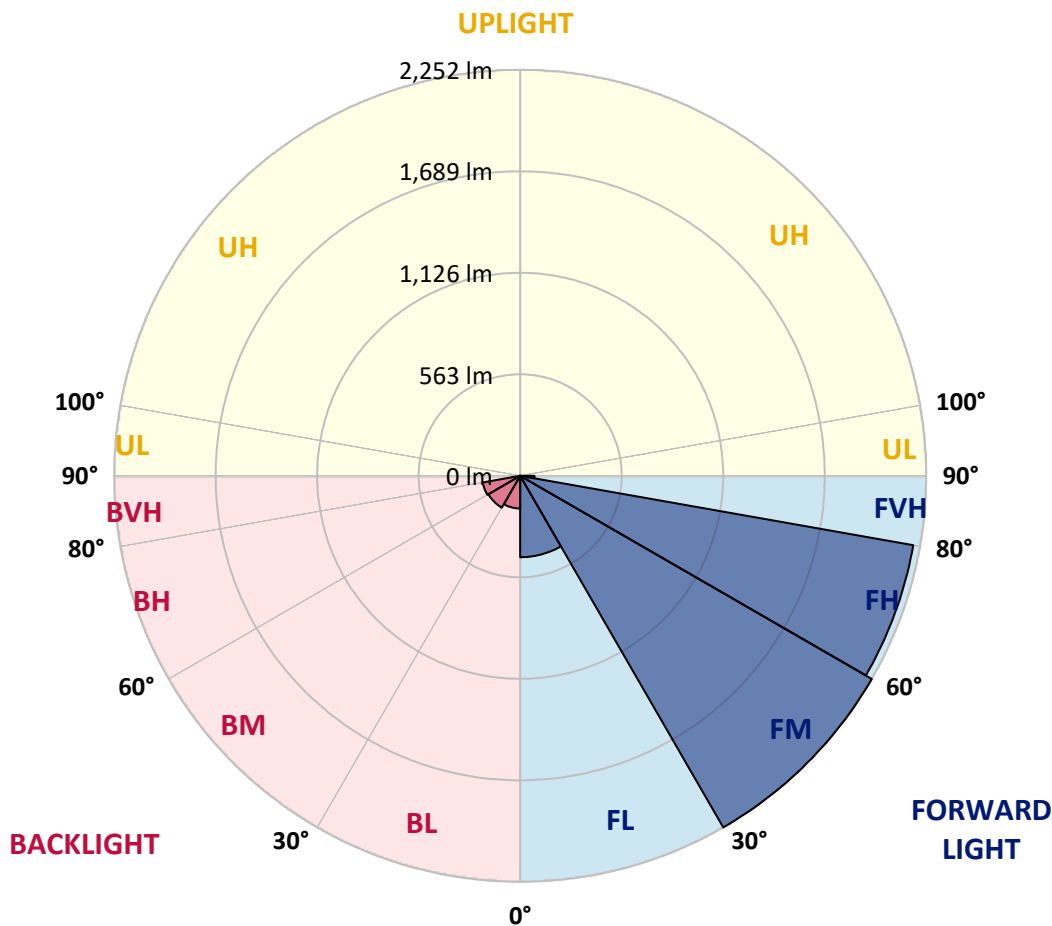
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.5	8.1			
FM	(30°-60°)	2251.8	40.2			
FH	(60°-80°)	2213.8	39.6			G2/5000
FVH	(80°-90°)	79.3	1.4			G1/100
BL	(0°-30°)	181.4	3.2	B1/500		
BM	(30°-60°)	203.7	3.6	B0/220		
BH	(60°-80°)	210.6	3.8	B1/500		G1/500
BVH	(80°-90°)	3.9	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°	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9
2.5°	1296.8	1308.9	1296.8	1312.0	1315.0	1330.2	1354.5	1369.7	1372.7	1384.9	1387.9
5°	1196.6	1196.6	1202.7	1214.8	1230.0	1248.2	1269.5	1290.7	1315.0	1345.4	1372.7
7.5°	1117.6	1105.5	1108.5	1117.6	1144.9	1169.2	1199.6	1236.1	1242.1	1296.8	1348.4
10°	1032.6	1029.5	1035.6	1056.9	1075.1	1096.4	1132.8	1178.4	1184.4	1245.2	1336.3
12.5°	968.8	965.8	974.9	981.0	1011.3	1041.7	1084.2	1138.9	1154.1	1214.8	1330.2
15°	920.2	920.2	926.3	941.5	965.8	1002.2	1044.7	1108.5	1114.6	1193.5	1342.4
17.5°	908.1	899.0	899.0	908.1	929.3	965.8	1011.3	1090.3	1096.4	1193.5	1357.5
20°	911.1	905.0	899.0	892.9	911.1	953.6	996.1	1072.1	1081.2	1193.5	1384.9
22.5°	929.3	926.3	917.2	908.1	911.1	938.4	990.1	1062.9	1078.1	1190.5	1406.1
25°	977.9	971.8	962.7	938.4	923.2	938.4	990.1	1062.9	1078.1	1187.5	1424.4
27.5°	1032.6	1023.5	1023.5	1002.2	959.7	950.6	993.1	1066.0	1072.1	1187.5	1445.6
30°	1120.7	1111.5	1102.4	1078.1	1029.5	987.0	1011.3	1072.1	1072.1	1190.5	1451.7
32.5°	1220.9	1220.9	1208.7	1187.5	1114.6	1032.6	1029.5	1075.1	1078.1	1178.4	1451.7
35°	1339.3	1339.3	1348.4	1324.1	1230.0	1105.5	1072.1	1096.4	1102.4	1190.5	1439.5
37.5°	1439.5	1439.5	1460.8	1479.0	1372.7	1205.7	1132.8	1135.8	1132.8	1211.8	1448.6
40°	1554.9	1558.0	1591.4	1627.8	1561.0	1336.3	1223.9	1193.5	1190.5	1239.1	1479.0
42.5°	1682.5	1688.6	1746.3	1800.9	1746.3	1512.4	1351.5	1275.5	1266.4	1315.0	1539.8
45°	1791.8	1813.1	1901.2	1986.2	1977.1	1731.1	1515.5	1415.2	1409.2	1433.5	1636.9
47.5°	1995.3	2001.4	2092.5	2207.9	2232.2	2007.5	1725.0	1612.6	1600.5	1600.5	1794.9
50°	2207.9	2229.2	2305.1	2475.2	2593.6	2323.3	1992.3	1870.8	1861.7	1828.3	2022.6
52.5°	2314.2	2329.4	2429.6	2611.8	2952.0	2803.2	2317.2	2232.2	2207.9	2165.4	2305.1
55°	2223.1	2232.2	2314.2	2581.4	3097.7	3483.4	2809.2	2620.9	2624.0	2535.9	2736.3
57.5°	1849.5	1858.6	1928.5	2223.1	3000.6	3939.0	3535.1	3179.7	3128.1	2927.7	3122.0
60°	1381.8	1372.7	1354.5	1570.1	2411.4	4011.9	4704.3	3869.1	3811.4	3286.0	3553.3
62.5°	1035.6	1023.5	999.2	1047.8	1430.4	3532.0	5454.5	4831.9	4725.6	3705.1	4054.4
65°	804.8	789.6	792.7	817.0	892.9	2280.8	5700.4	6663.2	6386.8	4361.1	4680.0
67.5°	637.8	631.7	619.5	728.9	719.8	1108.5	5032.3	8157.4	8136.1	5251.0	5481.8
70°	516.3	519.3	501.1	643.8	701.5	701.5	3173.7	8233.3	8251.5	5560.7	5196.3
72.5°	373.6	370.5	379.6	528.4	695.5	668.1	1390.9	6578.1	6620.7	4892.6	4054.4
75°	203.5	212.6	249.0	382.7	692.4	653.0	683.3	4254.8	4300.4	2994.5	1974.0
77.5°	103.3	106.3	133.6	233.8	558.8	634.7	595.3	2025.7	1995.3	1151.0	522.4
80°	48.6	48.6	63.8	139.7	364.4	643.8	546.7	798.7	768.4	233.8	121.5
82.5°	18.2	18.2	30.4	82.0	203.5	540.6	489.0	422.1	391.8	72.9	75.9
85°	3.0	3.0	15.2	45.6	91.1	261.2	403.9	334.1	297.6	33.4	42.5
87.5°	0.0	0.0	6.1	12.1	27.3	124.5	203.5	200.4	173.1	15.2	21.3
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°	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9	1387.9
2.5°	1375.8	1366.6	1345.4	1333.2	1302.9	1278.6	1257.3	1223.9	1202.7	1211.8	1217.8
5°	1366.6	1348.4	1305.9	1242.1	1178.4	1105.5	1047.8	981.0	962.7	944.5	959.7
7.5°	1348.4	1318.1	1236.1	1129.8	1008.3	908.1	804.8	722.8	668.1	628.7	622.6
10°	1333.2	1290.7	1154.1	1008.3	832.1	677.3	522.4	413.0	334.1	303.7	291.6
12.5°	1318.1	1266.4	1081.2	868.6	643.8	425.2	264.2	182.2	151.8	148.8	145.8
15°	1327.2	1251.2	1008.3	735.0	452.5	230.8	145.8	130.6	130.6	130.6	127.6
17.5°	1339.3	1226.9	941.5	604.4	264.2	136.7	124.5	118.4	115.4	115.4	115.4
20°	1348.4	1202.7	859.5	452.5	151.8	118.4	112.4	106.3	100.2	100.2	100.2
22.5°	1339.3	1187.5	765.3	303.7	118.4	103.3	97.2	91.1	88.1	85.0	82.0
25°	1345.4	1160.1	674.2	188.3	106.3	94.1	85.0	75.9	69.9	66.8	66.8
27.5°	1336.3	1132.8	574.0	127.6	94.1	82.0	69.9	63.8	54.7	51.6	51.6
30°	1324.1	1105.5	470.7	103.3	85.0	72.9	60.7	51.6	45.6	42.5	42.5
32.5°	1312.0	1059.9	364.4	94.1	79.0	63.8	51.6	42.5	39.5	36.4	36.4
35°	1281.6	1011.3	264.2	88.1	69.9	54.7	42.5	36.4	33.4	30.4	30.4
37.5°	1269.5	977.9	182.2	79.0	63.8	48.6	36.4	30.4	27.3	27.3	27.3
40°	1275.5	926.3	127.6	72.9	54.7	42.5	33.4	27.3	24.3	21.3	21.3
42.5°	1293.8	911.1	103.3	69.9	48.6	36.4	27.3	21.3	18.2	18.2	18.2
45°	1354.5	914.1	94.1	63.8	42.5	30.4	24.3	18.2	15.2	15.2	15.2
47.5°	1463.8	938.4	88.1	57.7	36.4	27.3	21.3	15.2	12.1	12.1	12.1
50°	1621.8	999.2	85.0	51.6	33.4	24.3	18.2	12.1	9.1	9.1	9.1
52.5°	1870.8	1105.5	79.0	45.6	27.3	21.3	12.1	9.1	9.1	6.1	6.1
55°	2204.9	1257.3	72.9	39.5	24.3	15.2	12.1	9.1	6.1	6.1	6.1
57.5°	2572.3	1436.5	63.8	33.4	21.3	15.2	9.1	6.1	6.1	3.0	3.0
60°	3003.6	1706.8	54.7	27.3	18.2	12.1	9.1	6.1	3.0	3.0	3.0
62.5°	3541.1	2043.9	45.6	24.3	15.2	9.1	6.1	3.0	3.0	3.0	3.0
65°	4297.4	2438.7	36.4	18.2	12.1	6.1	6.1	3.0	3.0	0.0	0.0
67.5°	4804.5	2487.3	33.4	18.2	9.1	6.1	6.1	3.0	0.0	0.0	0.0
70°	4342.9	1989.2	27.3	15.2	9.1	6.1	6.1	3.0	0.0	0.0	0.0
72.5°	3091.7	1144.9	24.3	12.1	9.1	6.1	6.1	3.0	3.0	0.0	0.0
75°	1363.6	321.9	24.3	12.1	9.1	9.1	9.1	6.1	3.0	0.0	0.0
77.5°	328.0	100.2	21.3	12.1	12.1	12.1	12.1	6.1	3.0	0.0	0.0
80°	82.0	36.4	18.2	12.1	12.1	12.1	12.1	6.1	3.0	3.0	3.0
82.5°	60.7	27.3	18.2	15.2	12.1	9.1	9.1	6.1	3.0	3.0	3.0
85°	36.4	12.1	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0
87.5°	21.3	6.1	6.1	3.0	3.0	3.0	0.0	0.0	0.0	3.0	3.0
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)