

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: P534607

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

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534607
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-SA6A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH 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: 4861 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

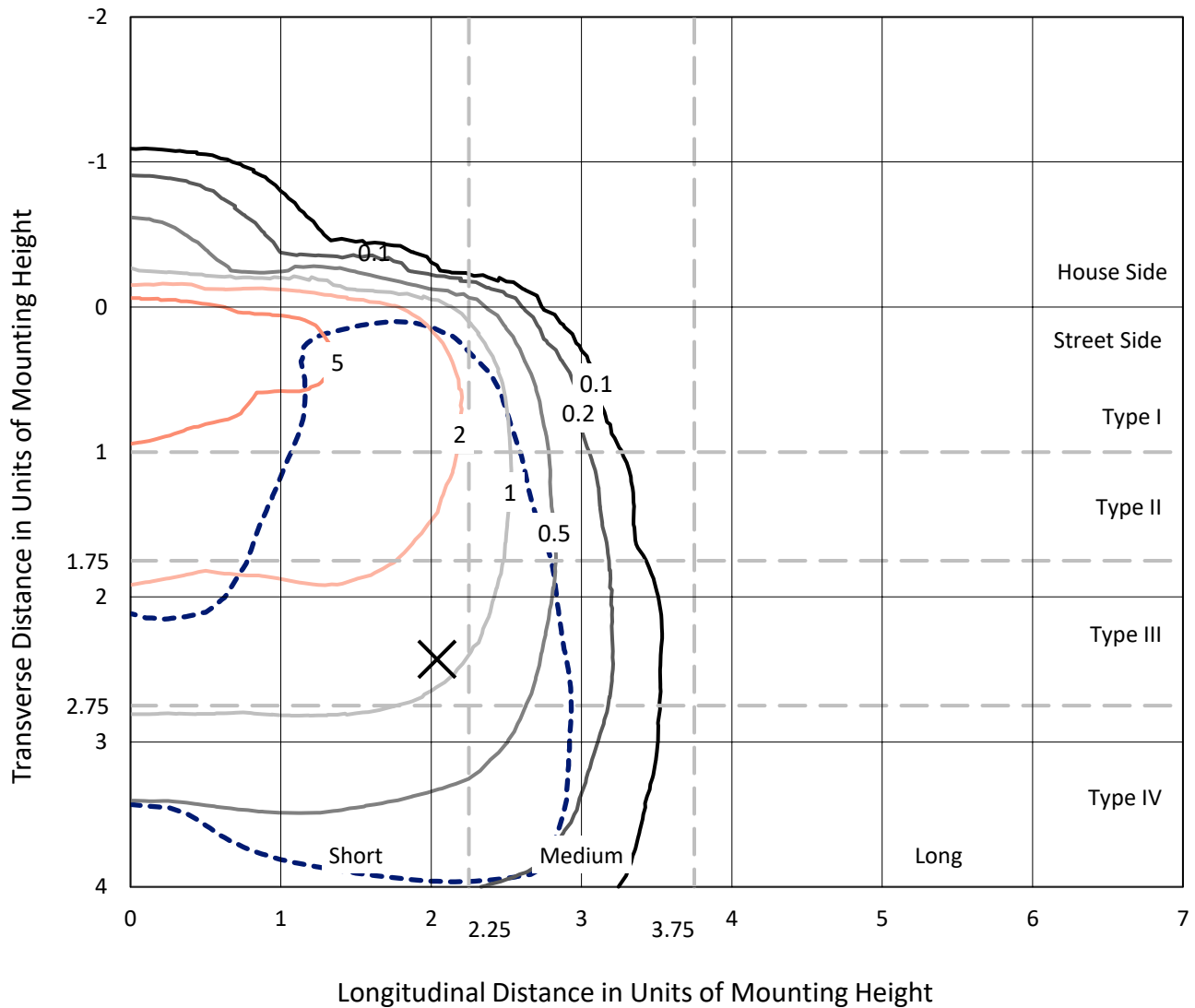
Input Watts (W): 118.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

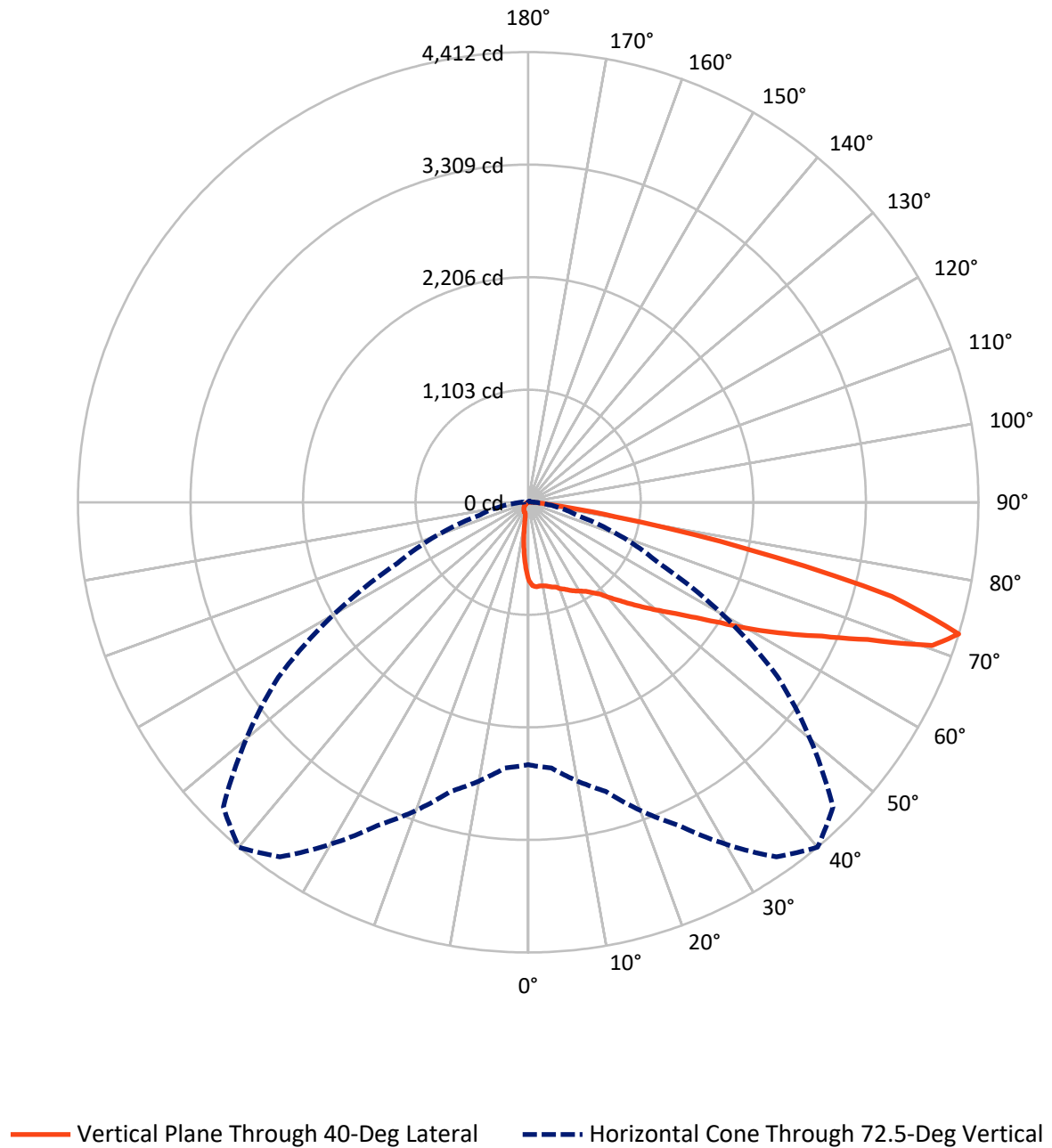
× Max cd
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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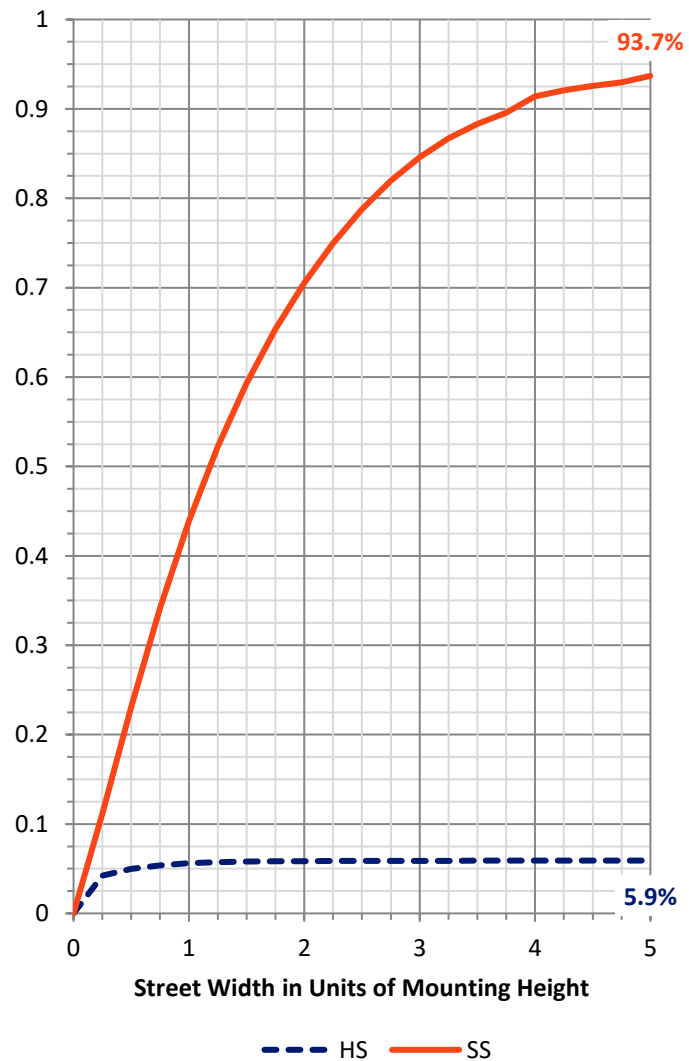
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	289.1	0.0	289.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4571.9	0.0	4571.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	4861.0	0.0	4861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	1.3
10°-20°	152.9	3.1
20°-30°	253.5	5.2
30°-40°	388.0	8.0
40°-50°	619.5	12.7
50°-60°	968.7	19.9
60°-70°	1390.4	28.6
70°-80°	936.1	19.3
80°-90°	90.7	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°	4861.0	100.0
0°-180°	4861.0	100.0

Coefficient of Utilization



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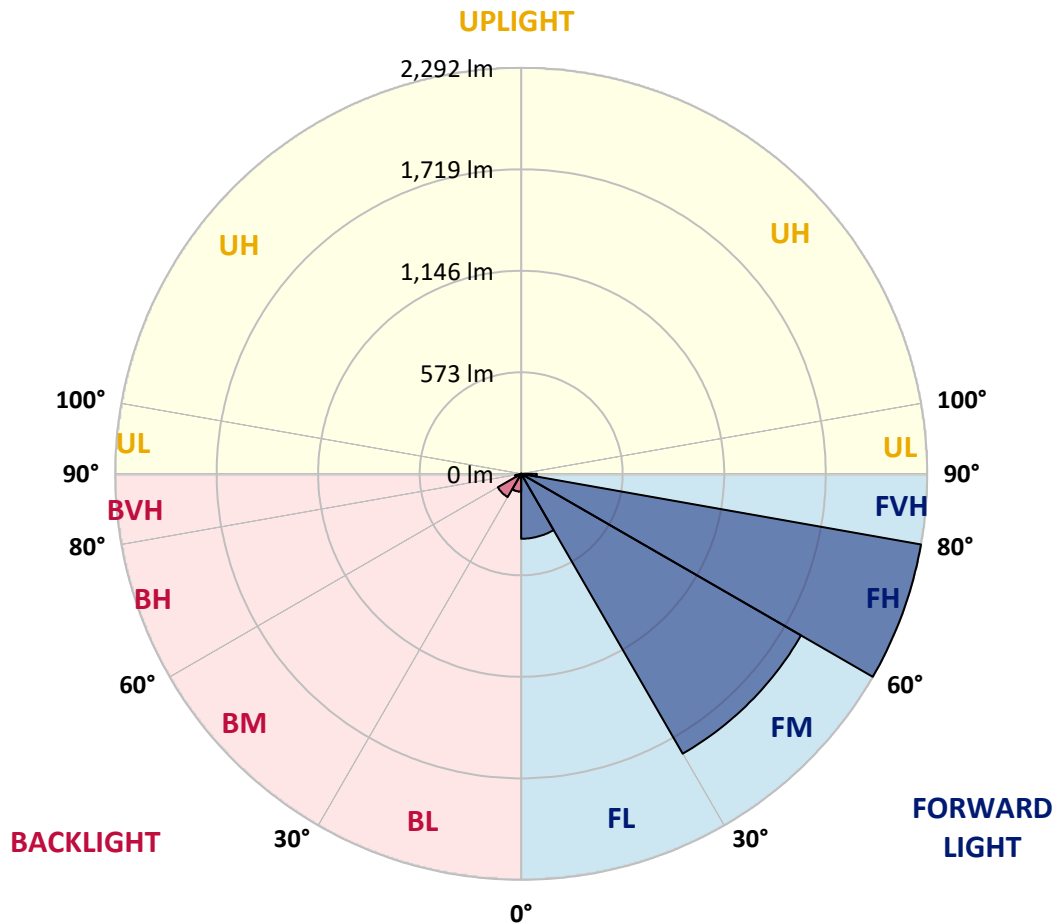
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.8	7.5			
FM	(30°-60°)	1824.4	37.5			
FH	(60°-80°)	2292.0	47.2			G2/5000
FVH	(80°-90°)	88.7	1.8			G1/100
BL	(0°-30°)	100.9	2.1	B0/110		
BM	(30°-60°)	151.8	3.1	B0/220		
BH	(60°-80°)	34.5	0.7	B0/110		G0/110
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3
2.5°	843.2	837.9	827.3	824.7	824.7	816.7	816.7	806.1	795.5	779.6	761.0
5°	851.2	848.5	845.9	848.5	837.9	832.6	824.7	811.4	792.8	776.9	753.1
7.5°	851.2	851.2	845.9	837.9	837.9	827.3	824.7	808.7	792.8	774.3	745.1
10°	832.6	832.6	835.3	837.9	840.6	832.6	830.0	806.1	795.5	784.9	750.4
12.5°	814.1	811.4	827.3	837.9	845.9	843.2	835.3	827.3	806.1	782.2	753.1
15°	808.7	808.7	824.7	848.5	859.1	861.8	853.8	840.6	816.7	795.5	761.0
17.5°	811.4	811.4	832.6	861.8	877.7	872.4	875.0	851.2	827.3	808.7	776.9
20°	832.6	827.3	859.1	893.6	906.9	904.2	893.6	867.1	843.2	827.3	792.8
22.5°	848.5	845.9	883.0	917.5	938.7	925.4	917.5	877.7	853.8	845.9	811.4
25°	888.3	890.9	917.5	957.2	965.2	957.2	944.0	893.6	872.4	877.7	827.3
27.5°	930.7	936.0	965.2	991.7	991.7	983.8	970.5	917.5	898.9	904.2	856.5
30°	986.4	978.5	1007.6	1023.5	1020.9	1010.3	999.7	944.0	936.0	954.6	890.9
32.5°	1052.7	1044.7	1060.7	1066.0	1047.4	1039.4	1036.8	983.8	975.8	1015.6	933.4
35°	1124.3	1108.4	1113.7	1105.7	1092.5	1087.2	1073.9	1028.8	1039.4	1092.5	999.7
37.5°	1177.3	1172.0	1172.0	1148.2	1140.2	1140.2	1140.2	1100.4	1124.3	1217.1	1100.4
40°	1235.7	1225.1	1211.8	1195.9	1214.4	1227.7	1227.7	1190.6	1241.0	1362.9	1219.7
42.5°	1280.7	1275.4	1256.9	1251.6	1296.6	1320.5	1328.5	1296.6	1378.8	1556.5	1386.8
45°	1333.8	1320.5	1291.3	1317.9	1384.2	1423.9	1437.2	1431.9	1551.2	1771.3	1575.1
47.5°	1373.5	1370.9	1333.8	1384.2	1477.0	1540.6	1575.1	1572.4	1736.8	2036.5	1776.6
50°	1445.1	1429.2	1386.8	1477.0	1577.7	1667.9	1715.6	1747.4	1980.8	2291.0	1948.9
52.5°	1514.1	1500.8	1445.1	1577.7	1702.3	1811.1	1885.3	1991.4	2238.0	2508.4	2041.8
55°	1612.2	1604.2	1559.2	1699.7	1869.4	1994.0	2086.8	2256.5	2508.4	2656.9	2126.6
57.5°	1734.2	1702.3	1686.4	1861.4	2081.5	2227.4	2344.0	2540.3	2699.4	2786.9	2248.6
60°	1869.4	1832.3	1803.1	2044.4	2349.3	2527.0	2659.6	2792.2	2869.1	2972.5	2434.2
62.5°	2015.2	1983.4	1959.6	2214.1	2627.8	2834.6	2927.4	2991.0	3128.9	3285.4	2481.9
65°	2214.1	2169.0	2158.4	2460.7	2961.9	3163.4	3227.0	3359.6	3468.3	3378.2	2227.4
67.5°	2381.2	2431.5	2476.6	2831.9	3423.3	3587.7	3717.6	3831.6	3563.8	2850.5	1421.3
70°	2654.3	2664.9	2821.3	3277.4	3924.4	4202.8	4274.4	3858.1	2752.4	1575.1	538.3
72.5°	2572.1	2614.5	2932.7	3494.8	4242.6	4412.3	4224.0	2988.4	1416.0	498.5	140.5
75°	1805.8	1861.4	2548.2	3102.4	3836.9	3680.5	3049.4	1527.3	482.6	119.3	58.3
77.5°	893.6	946.6	1423.9	1996.7	2550.9	2177.0	1516.7	636.4	193.6	63.6	39.8
80°	482.6	503.8	570.1	851.2	1129.6	872.4	559.5	376.5	135.2	42.4	29.2
82.5°	262.5	283.7	365.9	331.5	368.6	315.5	278.4	363.3	87.5	31.8	26.5
85°	58.3	63.6	204.2	209.5	193.6	129.9	127.3	350.0	34.5	15.9	15.9
87.5°	0.0	0.0	37.1	79.5	84.9	71.6	87.5	148.5	5.3	5.3	5.3
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°	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3
2.5°	753.1	745.1	721.2	697.4	673.5	655.0	633.7	620.5	609.9	607.2	604.6
5°	737.2	715.9	676.2	625.8	572.8	522.4	477.3	442.8	424.3	408.4	405.7
7.5°	729.2	708.0	636.4	556.8	464.0	387.1	315.5	259.9	220.1	209.5	201.5
10°	731.8	697.4	599.3	479.9	355.3	243.9	172.4	137.9	124.6	122.0	122.0
12.5°	726.5	686.8	556.8	400.4	243.9	145.8	119.3	114.0	114.0	114.0	114.0
15°	731.8	678.8	517.1	315.5	159.1	114.0	111.4	108.7	108.7	108.7	111.4
17.5°	745.1	681.5	474.6	236.0	116.7	108.7	106.1	106.1	106.1	106.1	106.1
20°	753.1	678.8	424.3	167.1	108.7	103.4	103.4	100.8	100.8	100.8	103.4
22.5°	758.4	670.9	365.9	122.0	103.4	100.8	98.1	98.1	98.1	98.1	98.1
25°	771.6	662.9	302.3	106.1	98.1	95.5	95.5	95.5	92.8	92.8	92.8
27.5°	784.9	662.9	236.0	100.8	95.5	92.8	90.2	90.2	90.2	90.2	87.5
30°	800.8	652.3	180.3	95.5	90.2	87.5	84.9	84.9	84.9	84.9	84.9
32.5°	822.0	647.0	129.9	90.2	84.9	79.5	79.5	79.5	79.5	79.5	79.5
35°	859.1	641.7	103.4	84.9	76.9	74.2	74.2	74.2	71.6	71.6	71.6
37.5°	920.1	647.0	90.2	76.9	71.6	68.9	66.3	66.3	66.3	63.6	63.6
40°	1010.3	662.9	84.9	71.6	66.3	63.6	61.0	61.0	58.3	55.7	55.7
42.5°	1111.0	673.5	79.5	66.3	61.0	58.3	55.7	55.7	50.4	47.7	47.7
45°	1235.7	676.2	74.2	63.6	55.7	53.0	50.4	47.7	42.4	39.8	39.8
47.5°	1381.5	676.2	66.3	55.7	53.0	47.7	47.7	39.8	34.5	31.8	31.8
50°	1492.9	652.3	61.0	53.0	47.7	45.1	39.8	34.5	26.5	26.5	23.9
52.5°	1545.9	594.0	58.3	47.7	42.4	39.8	34.5	26.5	21.2	18.6	18.6
55°	1591.0	530.3	53.0	45.1	39.8	34.5	29.2	21.2	15.9	13.3	13.3
57.5°	1654.6	442.8	50.4	39.8	34.5	29.2	23.9	15.9	10.6	8.0	8.0
60°	1726.2	339.4	45.1	34.5	31.8	23.9	18.6	10.6	5.3	5.3	5.3
62.5°	1646.7	204.2	39.8	31.8	26.5	21.2	13.3	8.0	2.7	2.7	2.7
65°	1307.3	114.0	34.5	26.5	23.9	18.6	10.6	5.3	0.0	0.0	0.0
67.5°	731.8	68.9	29.2	23.9	21.2	13.3	8.0	2.7	0.0	0.0	0.0
70°	225.4	47.7	23.9	21.2	18.6	13.3	5.3	2.7	0.0	0.0	0.0
72.5°	61.0	34.5	18.6	15.9	15.9	10.6	5.3	2.7	0.0	0.0	0.0
75°	39.8	23.9	15.9	13.3	13.3	10.6	5.3	2.7	0.0	0.0	0.0
77.5°	29.2	21.2	13.3	10.6	10.6	10.6	5.3	2.7	0.0	0.0	0.0
80°	26.5	15.9	10.6	8.0	10.6	13.3	5.3	2.7	0.0	0.0	0.0
82.5°	26.5	15.9	8.0	8.0	10.6	13.3	5.3	2.7	0.0	0.0	0.0
85°	15.9	5.3	2.7	2.7	5.3	5.3	2.7	2.7	0.0	0.0	0.0
87.5°	2.7	2.7	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)