

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: P534631

Luminaire Tested: **GALN-SA9A-AMB-U-SL4-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534631
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-SA9A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS 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: 6784 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

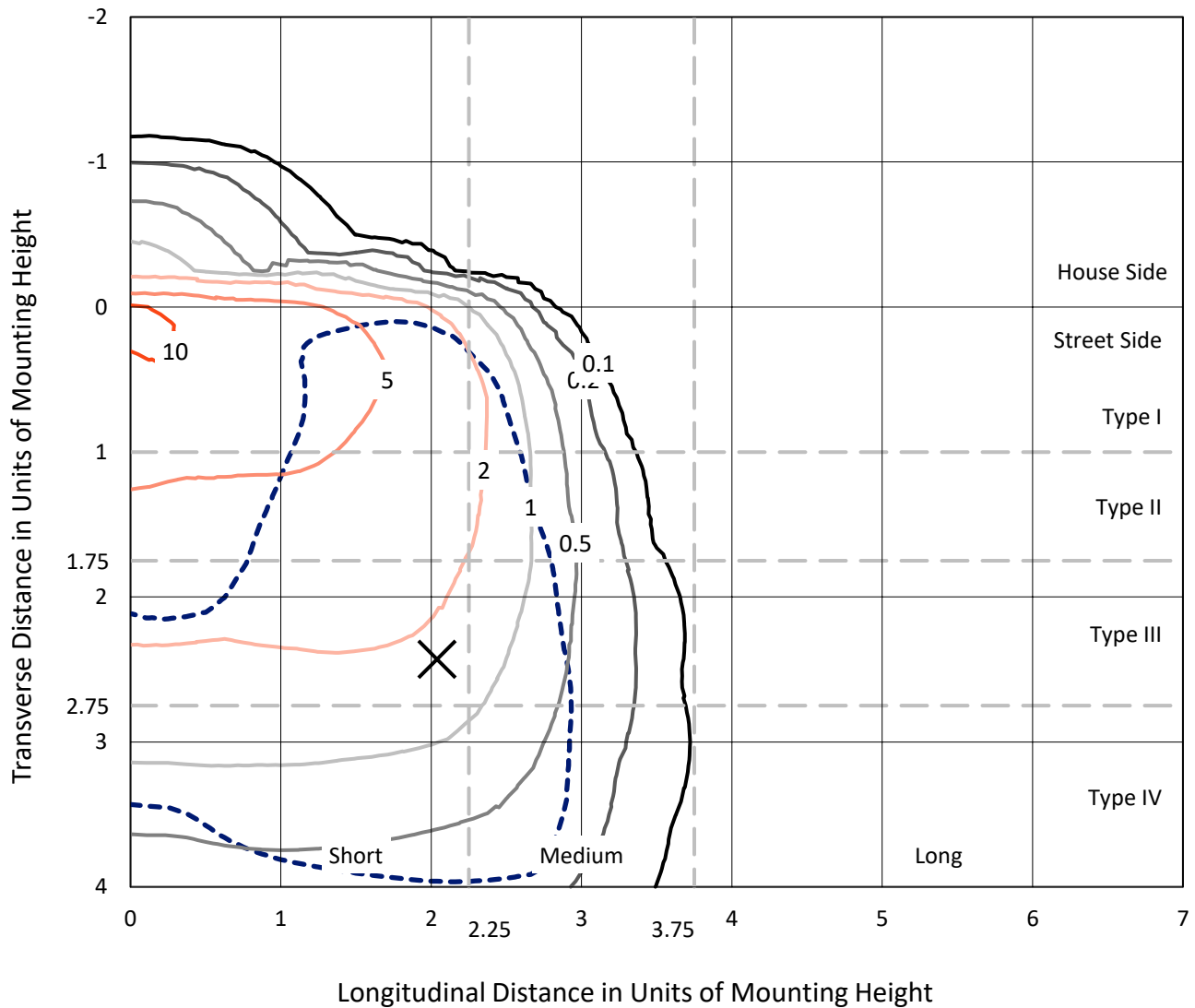
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

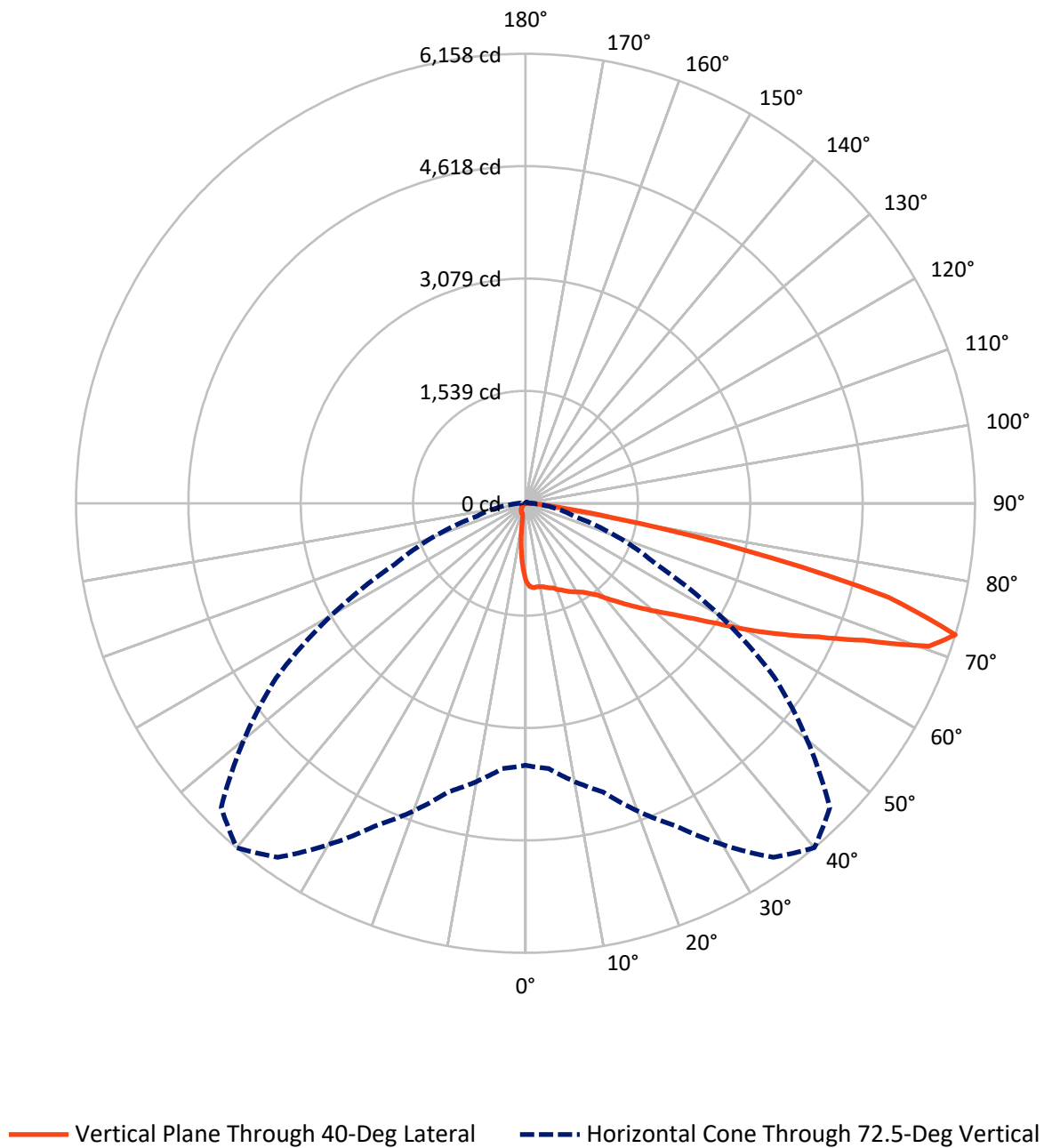
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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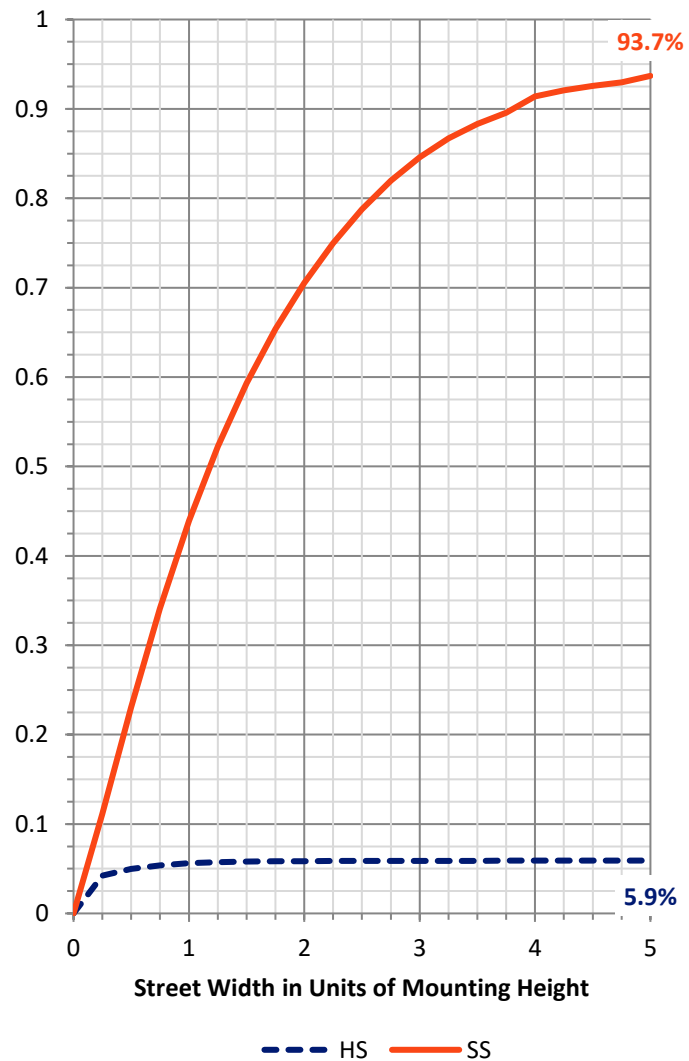
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.4	0.0	403.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	6380.5	0.0	6380.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	6784.0	0.0	6784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.3
10°-20°	213.4	3.1
20°-30°	353.8	5.2
30°-40°	541.5	8.0
40°-50°	864.5	12.7
50°-60°	1352.0	19.9
60°-70°	1940.4	28.6
70°-80°	1306.4	19.3
80°-90°	126.6	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°	6784.0	100.0
0°-180°	6784.0	100.0

Coefficient of Utilization



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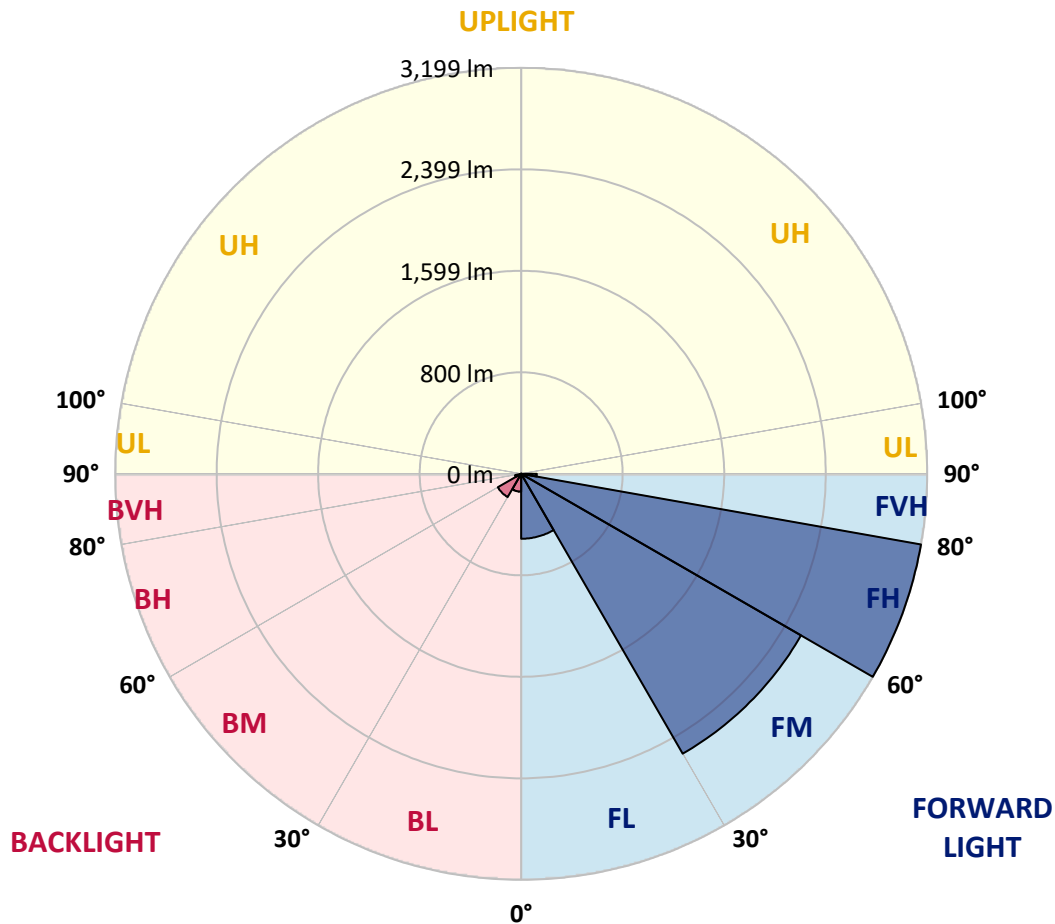
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.9	7.5			
FM	(30°-60°)	2546.1	37.5			
FH	(60°-80°)	3198.8	47.2			G2/5000
FVH	(80°-90°)	123.8	1.8			G2/225
BL	(0°-30°)	140.8	2.1	B1/500		
BM	(30°-60°)	211.8	3.1	B0/220		
BH	(60°-80°)	48.1	0.7	B0/110		G0/110
BVH	(80°-90°)	2.8	0.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1176.8	1169.4	1154.6	1150.9	1150.9	1139.8	1139.8	1125.0	1110.2	1088.0	1062.1
5°	1187.9	1184.2	1180.5	1184.2	1169.4	1162.0	1150.9	1132.4	1106.5	1084.3	1051.0
7.5°	1187.9	1187.9	1180.5	1169.4	1169.4	1154.6	1150.9	1128.7	1106.5	1080.6	1039.9
10°	1162.0	1162.0	1165.7	1169.4	1173.1	1162.0	1158.3	1125.0	1110.2	1095.4	1047.3
12.5°	1136.1	1132.4	1154.6	1169.4	1180.5	1176.8	1165.7	1154.6	1125.0	1091.7	1051.0
15°	1128.7	1128.7	1150.9	1184.2	1199.0	1202.7	1191.6	1173.1	1139.8	1110.2	1062.1
17.5°	1132.4	1132.4	1162.0	1202.7	1224.9	1217.5	1221.2	1187.9	1154.6	1128.7	1084.3
20°	1162.0	1154.6	1199.0	1247.1	1265.6	1261.9	1247.1	1210.1	1176.8	1154.6	1106.5
22.5°	1184.2	1180.5	1232.3	1280.4	1310.0	1291.5	1280.4	1224.9	1191.6	1180.5	1132.4
25°	1239.7	1243.4	1280.4	1335.9	1347.0	1335.9	1317.4	1247.1	1217.5	1224.9	1154.6
27.5°	1298.9	1306.3	1347.0	1384.0	1384.0	1372.9	1354.4	1280.4	1254.5	1261.9	1195.3
30°	1376.6	1365.5	1406.2	1428.4	1424.7	1409.9	1395.1	1317.4	1306.3	1332.2	1243.4
32.5°	1469.1	1458.0	1480.2	1487.6	1461.7	1450.6	1446.9	1372.9	1361.8	1417.3	1302.6
35°	1569.1	1546.9	1554.3	1543.2	1524.7	1517.2	1498.7	1435.8	1450.6	1524.7	1395.1
37.5°	1643.1	1635.7	1635.7	1602.4	1591.3	1591.3	1591.3	1535.8	1569.1	1698.6	1535.8
40°	1724.5	1709.7	1691.2	1669.0	1694.9	1713.4	1713.4	1661.6	1731.9	1902.1	1702.3
42.5°	1787.4	1780.0	1754.1	1746.7	1809.6	1842.9	1854.0	1809.6	1924.3	2172.3	1935.4
45°	1861.4	1842.9	1802.2	1839.2	1931.7	1987.2	2005.7	1998.3	2164.9	2472.0	2198.2
47.5°	1916.9	1913.2	1861.4	1931.7	2061.2	2150.1	2198.2	2194.5	2423.9	2842.1	2479.4
50°	2016.8	1994.6	1935.4	2061.2	2201.9	2327.7	2394.3	2438.7	2764.4	3197.3	2719.9
52.5°	2113.0	2094.5	2016.8	2201.9	2375.8	2527.5	2631.1	2779.2	3123.3	3500.8	2849.5
55°	2250.0	2238.9	2176.0	2372.1	2608.9	2782.9	2912.4	3149.2	3500.8	3708.0	2967.9
57.5°	2420.2	2375.8	2353.6	2597.8	2905.0	3108.5	3271.3	3545.2	3767.2	3889.3	3138.1
60°	2608.9	2557.1	2516.4	2853.2	3278.7	3526.7	3711.7	3896.7	4004.1	4148.4	3397.2
62.5°	2812.5	2768.1	2734.7	3090.0	3667.3	3956.0	4085.5	4174.3	4366.7	4585.1	3463.8
65°	3090.0	3027.1	3012.3	3434.2	4133.6	4414.8	4503.6	4688.7	4840.4	4714.6	3108.5
67.5°	3323.1	3393.5	3456.4	3952.2	4777.5	5006.9	5188.3	5347.4	4973.6	3978.2	1983.5
70°	3704.3	3719.1	3937.4	4574.0	5476.9	5865.5	5965.4	5384.4	3841.2	2198.2	751.2
72.5°	3589.6	3648.8	4092.9	4877.4	5921.0	6157.8	5895.1	4170.6	1976.1	695.7	196.1
75°	2520.1	2597.8	3556.3	4329.7	5354.8	5136.4	4255.7	2131.6	673.5	166.5	81.4
77.5°	1247.1	1321.1	1987.2	2786.6	3560.0	3038.2	2116.7	888.1	270.1	88.8	55.5
80°	673.5	703.1	795.6	1187.9	1576.5	1217.5	780.8	525.5	188.7	59.2	40.7
82.5°	366.4	396.0	510.7	462.6	514.4	440.4	388.6	507.0	122.1	44.4	37.0
85°	81.4	88.8	284.9	292.3	270.1	181.3	177.6	488.5	48.1	22.2	22.2
87.5°	0.0	0.0	51.8	111.0	118.4	99.9	122.1	207.2	7.4	7.4	7.4
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°	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1051.0	1039.9	1006.6	973.3	940.0	914.1	884.4	865.9	851.1	847.4	843.7
5°	1028.8	999.2	943.7	873.3	799.3	729.0	666.1	618.0	592.1	569.9	566.2
7.5°	1017.7	988.1	888.1	777.1	647.6	540.3	440.4	362.7	307.2	292.3	281.2
10°	1021.4	973.3	836.3	669.8	495.9	340.5	240.5	192.4	173.9	170.2	170.2
12.5°	1014.0	958.5	777.1	558.8	340.5	203.5	166.5	159.1	159.1	159.1	159.1
15°	1021.4	947.4	721.6	440.4	222.0	159.1	155.4	151.7	151.7	151.7	155.4
17.5°	1039.9	951.1	662.4	329.4	162.8	151.7	148.0	148.0	148.0	148.0	148.0
20°	1051.0	947.4	592.1	233.1	151.7	144.3	144.3	140.6	140.6	140.6	144.3
22.5°	1058.4	936.3	510.7	170.2	144.3	140.6	136.9	136.9	136.9	136.9	136.9
25°	1076.9	925.2	421.9	148.0	136.9	133.2	133.2	133.2	129.5	129.5	129.5
27.5°	1095.4	925.2	329.4	140.6	133.2	129.5	125.8	125.8	125.8	125.8	122.1
30°	1117.6	910.3	251.6	133.2	125.8	122.1	118.4	118.4	118.4	118.4	118.4
32.5°	1147.2	902.9	181.3	125.8	118.4	111.0	111.0	111.0	111.0	111.0	111.0
35°	1199.0	895.5	144.3	118.4	107.3	103.6	103.6	103.6	99.9	99.9	99.9
37.5°	1284.1	902.9	125.8	107.3	99.9	96.2	92.5	92.5	92.5	88.8	88.8
40°	1409.9	925.2	118.4	99.9	92.5	88.8	85.1	85.1	81.4	77.7	77.7
42.5°	1550.6	940.0	111.0	92.5	85.1	81.4	77.7	77.7	70.3	66.6	66.6
45°	1724.5	943.7	103.6	88.8	77.7	74.0	70.3	66.6	59.2	55.5	55.5
47.5°	1928.0	943.7	92.5	77.7	74.0	66.6	66.6	55.5	48.1	44.4	44.4
50°	2083.4	910.3	85.1	74.0	66.6	62.9	55.5	48.1	37.0	37.0	33.3
52.5°	2157.5	828.9	81.4	66.6	59.2	55.5	48.1	37.0	29.6	25.9	25.9
55°	2220.4	740.1	74.0	62.9	55.5	48.1	40.7	29.6	22.2	18.5	18.5
57.5°	2309.2	618.0	70.3	55.5	48.1	40.7	33.3	22.2	14.8	11.1	11.1
60°	2409.1	473.7	62.9	48.1	44.4	33.3	25.9	14.8	7.4	7.4	7.4
62.5°	2298.1	284.9	55.5	44.4	37.0	29.6	18.5	11.1	3.7	3.7	3.7
65°	1824.4	159.1	48.1	37.0	33.3	25.9	14.8	7.4	0.0	0.0	0.0
67.5°	1021.4	96.2	40.7	33.3	29.6	18.5	11.1	3.7	0.0	0.0	0.0
70°	314.6	66.6	33.3	29.6	25.9	18.5	7.4	3.7	0.0	0.0	0.0
72.5°	85.1	48.1	25.9	22.2	22.2	14.8	7.4	3.7	0.0	0.0	0.0
75°	55.5	33.3	22.2	18.5	18.5	14.8	7.4	3.7	0.0	0.0	0.0
77.5°	40.7	29.6	18.5	14.8	14.8	14.8	7.4	3.7	0.0	0.0	0.0
80°	37.0	22.2	14.8	11.1	14.8	18.5	7.4	3.7	0.0	0.0	0.0
82.5°	37.0	22.2	11.1	11.1	14.8	18.5	7.4	3.7	0.0	0.0	0.0
85°	22.2	7.4	3.7	3.7	7.4	7.4	3.7	3.7	0.0	0.0	0.0
87.5°	3.7	3.7	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)