

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: P527968

Luminaire Tested: **GALN-SA3A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11476 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

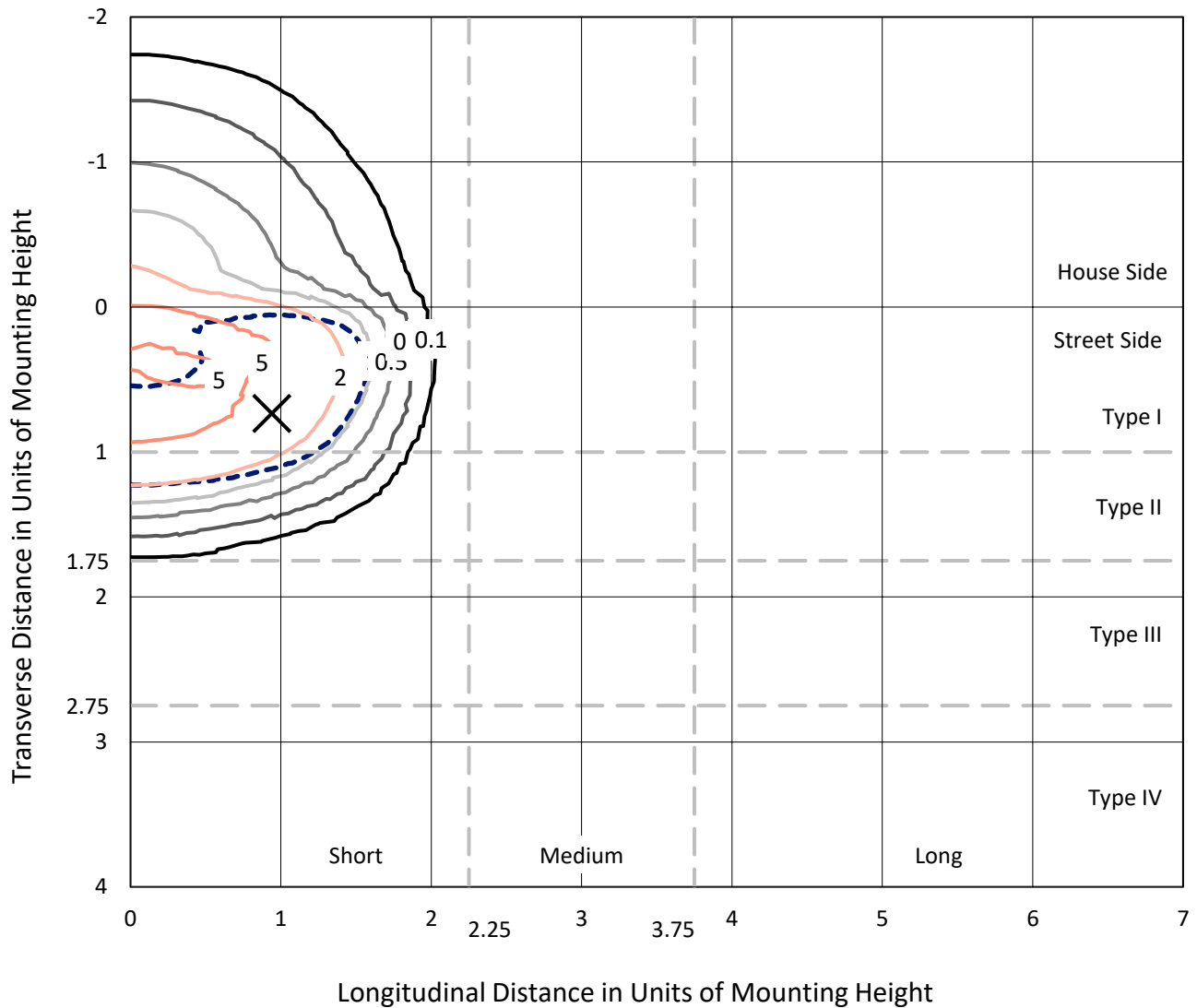
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

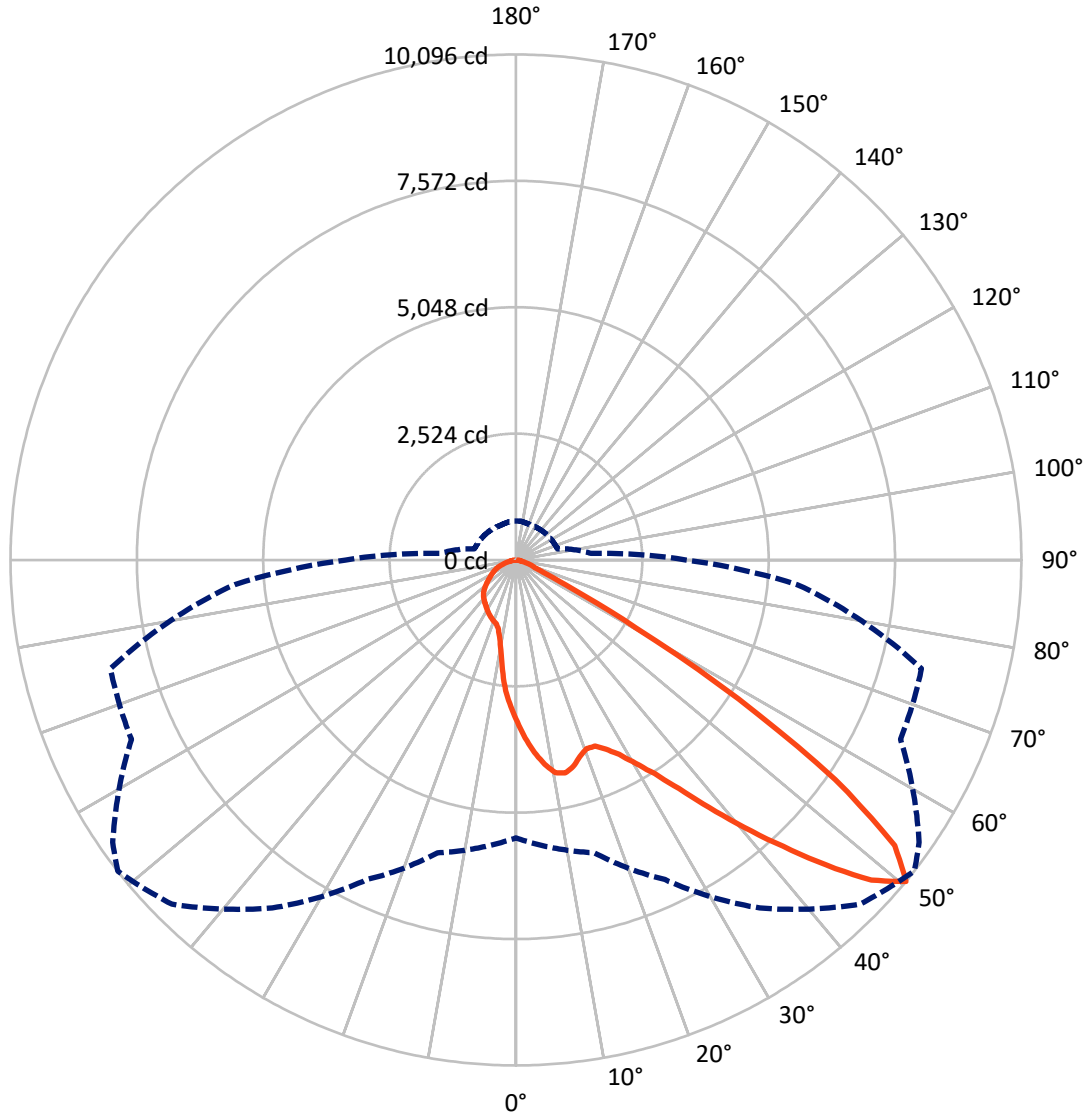
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2157.2	0.0	2157.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9318.8	0.0	9318.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	11476.0	0.0	11476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	2.6
10°-20°	799.1	7.0
20°-30°	1346.1	11.7
30°-40°	2258.9	19.7
40°-50°	3455.6	30.1
50°-60°	2519.4	22.0
60°-70°	560.7	4.9
70°-80°	202.2	1.8
80°-90°	35.8	0.3
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°	11476.0	100.0
0°-180°	11476.0	100.0

Coefficient of Utilization



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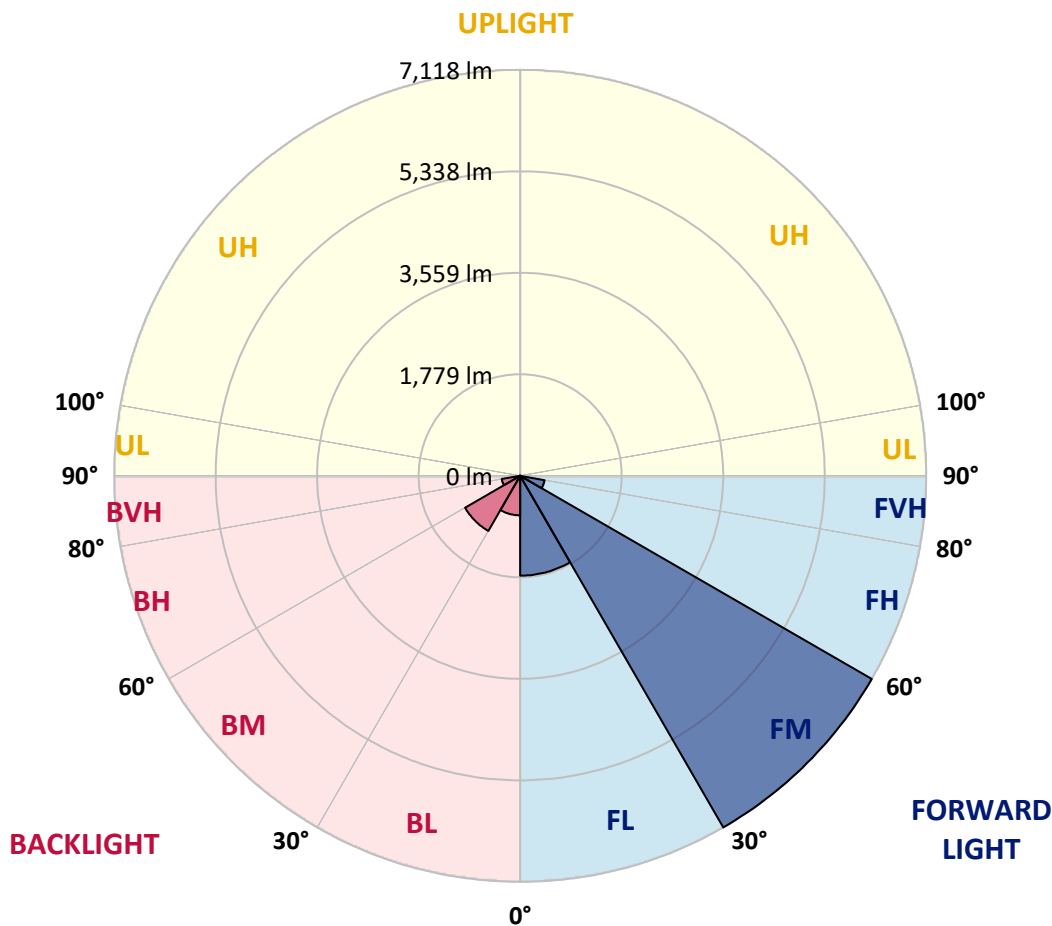
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1750.5	15.3			
FM (30°-60°)	7118.0	62.0			
FH (60°-80°)	434.3	3.8			G0/660
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	692.9	6.0	B2/1000		
BM (30°-60°)	1115.9	9.7	B2/2500		
BH (60°-80°)	328.7	2.9	B1/500		G1/500
BVH (80°-90°)	19.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9
2.5°	3808.8	3735.5	3743.8	3691.3	3634.6	3618.0	3559.9	3504.6	3463.1	3374.6	3293.0
5°	4162.9	4140.8	4107.6	4066.1	4023.2	3918.1	3858.6	3789.5	3637.4	3500.4	3364.9
7.5°	4214.1	4209.9	4227.9	4227.9	4243.1	4203.0	4118.6	4070.2	3908.4	3685.8	3434.0
10°	3854.5	3866.9	3954.1	4067.5	4225.1	4334.4	4320.6	4308.1	4131.1	3826.8	3515.6
12.5°	3568.2	3540.5	3591.7	3688.5	3925.0	4189.2	4367.6	4369.0	4323.3	4052.3	3575.1
15°	3406.4	3425.8	3439.6	3485.2	3663.6	3969.3	4283.2	4375.9	4576.4	4211.3	3669.2
17.5°	3510.1	3445.1	3442.3	3453.4	3544.7	3774.3	4126.9	4286.0	4714.7	4416.0	3785.3
20°	3645.7	3644.3	3605.5	3591.7	3590.3	3795.0	4024.6	4240.4	4788.0	4681.5	3902.9
22.5°	3883.5	3883.5	3819.9	3789.5	3724.5	3891.8	4038.4	4185.0	4909.7	4864.1	3959.6
25°	4281.8	4216.8	4107.6	4032.9	3995.6	4055.0	4185.0	4316.4	5016.2	5057.7	4077.2
27.5°	4649.7	4547.4	4493.4	4364.8	4315.0	4280.5	4399.4	4532.2	5140.7	5359.2	4140.8
30°	5067.4	5049.4	4952.6	4786.6	4663.6	4599.9	4709.2	4840.6	5368.9	5667.6	4287.4
32.5°	5814.2	5651.0	5519.7	5316.3	5115.8	4980.3	5088.1	5175.3	5747.8	5989.9	4447.8
35°	6620.5	6568.0	6341.2	5974.7	5667.6	5545.9	5609.5	5674.5	6189.0	6482.2	4717.5
37.5°	7413.0	7341.1	7154.4	6846.0	6472.6	6225.0	6270.6	6346.7	6684.2	7146.1	5046.7
40°	7982.8	7894.3	7800.3	7754.6	7384.0	7045.1	7018.8	7038.2	7353.5	7768.4	5411.8
42.5°	8024.3	8133.6	8162.6	8346.6	8259.4	7981.4	7819.6	7823.8	7992.5	8383.9	5781.0
45°	7937.2	7836.2	8050.6	8552.6	8840.3	8970.3	8697.8	8663.3	8388.0	8740.7	5965.0
47.5°	7023.0	7050.7	7413.0	8206.9	9038.1	9618.9	9555.3	9440.5	8599.6	8728.3	5935.9
50°	5551.5	5718.8	6054.9	7043.7	8484.9	9721.3	10096.1	9830.5	8473.8	8385.3	5640.0
52.5°	3696.8	3766.0	3987.3	5263.8	6822.5	8689.5	9473.7	9534.6	8357.6	7935.8	5265.2
55°	1645.8	1640.3	1951.4	2749.5	4280.5	6612.2	7740.8	8111.4	7910.9	7478.0	4900.1
57.5°	697.0	720.6	847.8	1188.0	2105.0	3990.0	5244.4	5569.4	6083.9	6140.6	3759.1
60°	471.6	474.4	509.0	594.7	881.0	1874.0	2750.8	3140.8	3508.7	3483.8	1994.3
62.5°	370.7	380.3	406.6	441.2	522.8	850.6	1230.9	1448.0	1471.5	1237.8	756.5
65°	316.7	318.1	344.4	373.4	409.4	495.1	593.3	604.4	611.3	589.2	556.0
67.5°	261.4	264.2	284.9	318.1	351.3	378.9	406.6	420.4	452.2	514.5	506.2
70°	207.5	211.6	229.6	257.2	287.7	304.3	338.8	351.3	380.3	428.7	448.1
72.5°	157.7	159.0	174.3	193.6	221.3	237.9	266.9	280.8	300.1	341.6	359.6
75°	113.4	117.6	128.6	138.3	142.5	153.5	181.2	196.4	224.0	242.0	243.4
77.5°	59.5	62.2	65.0	65.0	78.8	99.6	117.6	125.9	145.2	159.0	152.1
80°	23.5	24.9	31.8	42.9	55.3	71.9	84.4	88.5	105.1	113.4	117.6
82.5°	13.8	15.2	20.7	30.4	40.1	51.2	60.9	65.0	76.1	85.7	88.5
85°	6.9	8.3	12.4	19.4	26.3	31.8	30.4	29.0	29.0	27.7	29.0
87.5°	2.8	2.8	4.1	4.1	4.1	5.5	6.9	6.9	6.9	8.3	8.3
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°	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9
2.5°	3239.0	3183.7	3132.6	3038.5	2936.2	2907.1	2788.2	2745.3	2714.9	2678.9	2667.9
5°	3255.6	3182.3	3017.8	2828.3	2677.5	2483.9	2356.7	2219.8	2120.2	2095.3	2088.4
7.5°	3290.2	3164.4	2880.8	2594.6	2286.1	2023.4	1822.8	1715.0	1619.5	1614.0	1604.3
10°	3328.9	3110.4	2731.5	2282.0	1887.8	1644.4	1524.1	1477.1	1453.6	1448.0	1445.3
12.5°	3360.7	3099.4	2564.1	1977.7	1605.7	1459.1	1423.1	1419.0	1428.7	1431.4	1437.0
15°	3374.6	3055.1	2362.2	1705.3	1430.0	1376.1	1391.3	1407.9	1414.8	1432.8	1419.0
17.5°	3400.9	2998.4	2113.3	1489.5	1331.9	1341.5	1367.8	1387.2	1398.2	1410.7	1392.7
20°	3414.7	2947.2	1879.5	1360.9	1297.3	1315.3	1351.2	1366.4	1380.3	1385.8	1365.0
22.5°	3402.2	2842.1	1673.5	1257.2	1264.1	1287.6	1319.4	1336.0	1327.7	1305.6	1293.1
25°	3369.0	2694.1	1459.1	1190.8	1217.1	1258.6	1283.4	1271.0	1255.8	1243.3	1239.2
27.5°	3367.7	2513.0	1304.2	1129.9	1177.0	1233.7	1225.4	1214.3	1221.2	1211.5	1200.5
30°	3374.6	2337.3	1177.0	1095.4	1147.9	1175.6	1185.3	1174.2	1182.5	1164.5	1170.0
32.5°	3338.6	2165.8	1094.0	1055.2	1113.3	1112.0	1143.8	1152.1	1132.7	1095.4	1100.9
35°	3353.8	2027.5	1023.4	1037.3	1074.6	1074.6	1099.5	1089.8	1038.7	1016.5	1022.1
37.5°	3458.9	1892.0	988.9	1012.4	1037.3	1048.3	1040.0	998.5	986.1	986.1	988.9
40°	3558.5	1775.8	968.1	1006.8	1002.7	1009.6	948.8	952.9	952.9	954.3	947.4
42.5°	3647.0	1697.0	951.5	973.6	980.6	944.6	907.3	903.1	912.8	911.4	905.9
45°	3678.8	1632.0	928.0	936.3	941.8	882.4	864.4	856.1	867.2	871.3	876.8
47.5°	3557.1	1578.0	901.7	885.1	874.1	835.3	811.8	796.6	810.5	834.0	839.5
50°	3400.9	1507.5	860.2	828.4	804.9	788.3	771.7	756.5	766.2	782.8	778.6
52.5°	3169.9	1396.9	807.7	774.5	734.4	738.5	723.3	715.0	720.6	720.6	716.4
55°	2840.7	1147.9	719.2	695.7	662.5	673.5	676.3	665.2	654.2	663.9	655.6
57.5°	1939.0	810.5	641.7	641.7	608.5	623.7	622.4	596.1	569.8	572.6	567.0
60°	1121.6	645.9	591.9	586.4	551.8	564.3	567.0	549.1	509.0	511.7	506.2
62.5°	637.6	551.8	517.3	509.0	502.0	513.1	513.1	489.6	455.0	457.8	452.2
65°	542.1	511.7	461.9	460.5	457.8	460.5	449.5	424.6	394.2	381.7	383.1
67.5°	492.4	473.0	424.6	412.1	403.8	402.5	381.7	358.2	344.4	333.3	331.9
70°	431.5	416.3	380.3	363.7	355.4	336.1	315.3	300.1	280.8	275.2	280.8
72.5°	341.6	340.2	326.4	308.4	290.4	275.2	257.2	236.5	218.5	214.4	204.7
75°	236.5	239.3	242.0	239.3	224.0	204.7	183.9	167.3	145.2	132.8	130.0
77.5°	154.9	159.0	163.2	157.7	148.0	130.0	116.2	95.4	78.8	69.2	67.8
80°	113.4	118.9	121.7	117.6	106.5	92.7	77.4	60.9	48.4	40.1	40.1
82.5°	87.1	92.7	95.4	88.5	77.4	66.4	55.3	42.9	33.2	26.3	24.9
85°	30.4	29.0	34.6	36.0	42.9	40.1	33.2	24.9	19.4	13.8	12.4
87.5°	8.3	8.3	9.7	9.7	8.3	6.9	6.9	6.9	5.5	4.1	4.1
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)