

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: P527292

Luminaire Tested: **GALN-SA2B-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527292
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-SA2B-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 10326 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

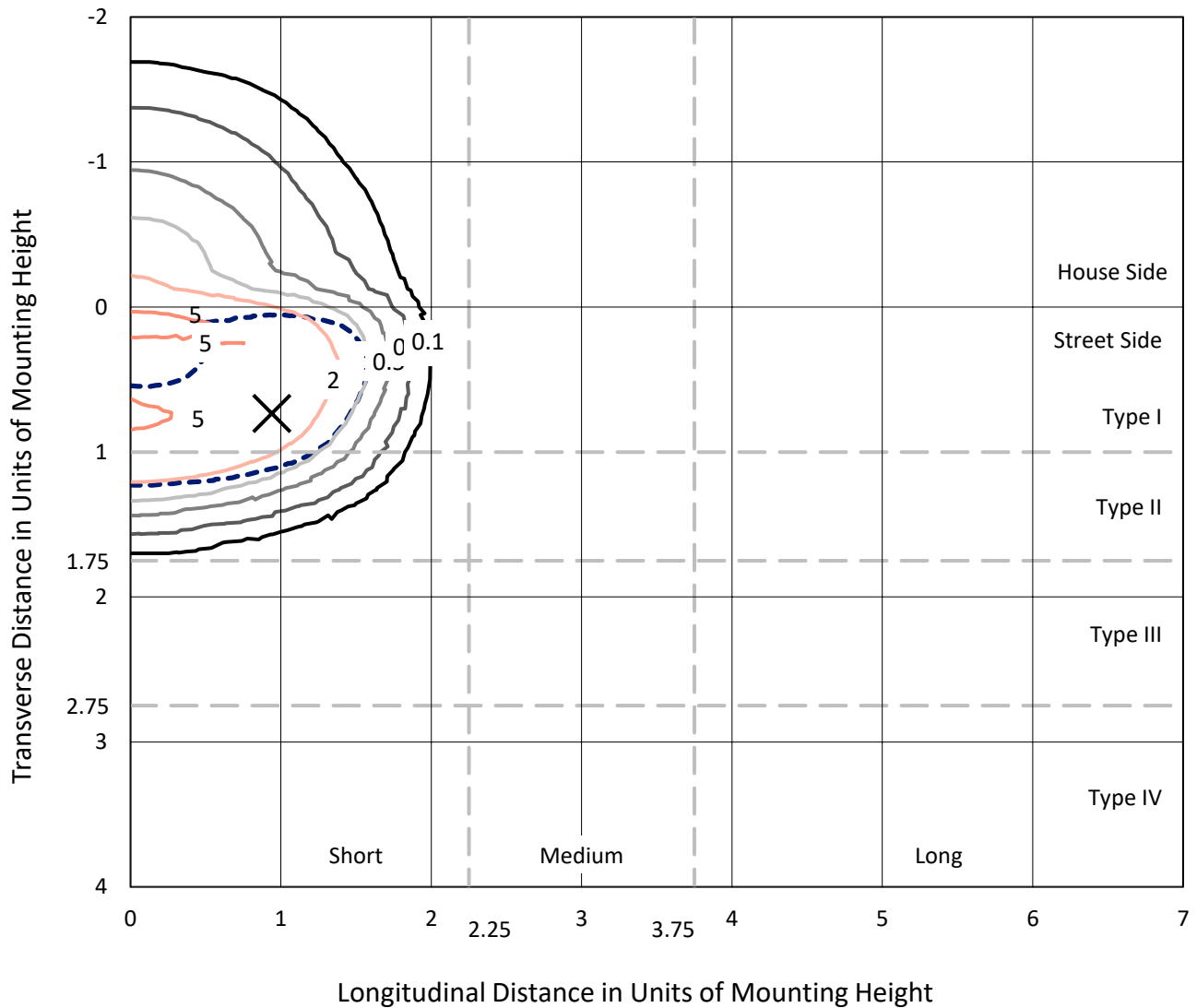
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

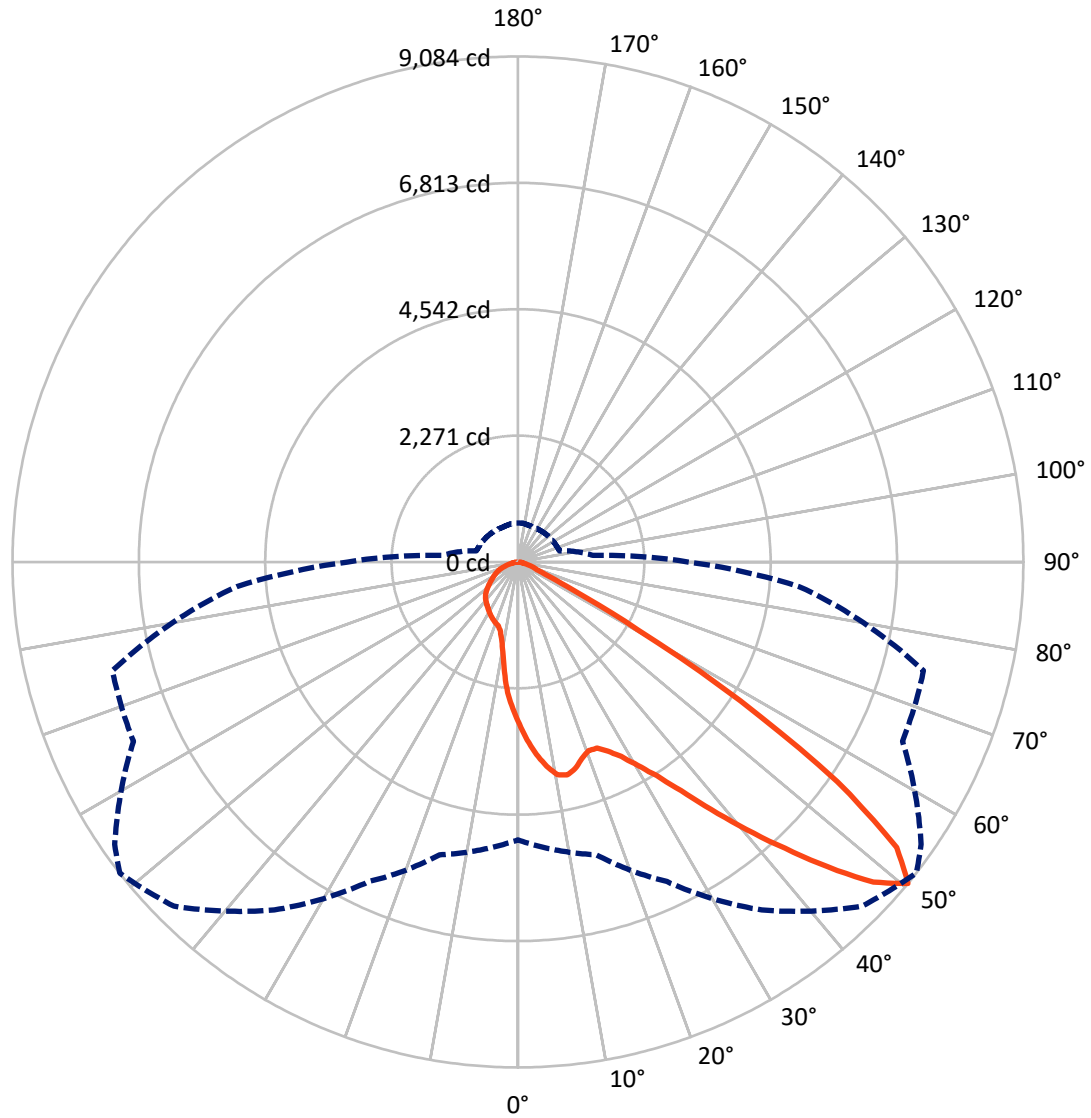
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1941.0	0.0	1941.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8385.0	0.0	8385.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	10326.0	0.0	10326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	2.6
10°-20°	719.1	7.0
20°-30°	1211.2	11.7
30°-40°	2032.5	19.7
40°-50°	3109.3	30.1
50°-60°	2266.9	22.0
60°-70°	504.5	4.9
70°-80°	182.0	1.8
80°-90°	32.2	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°	10326.0	100.0
0°-180°	10326.0	100.0

Coefficient of Utilization

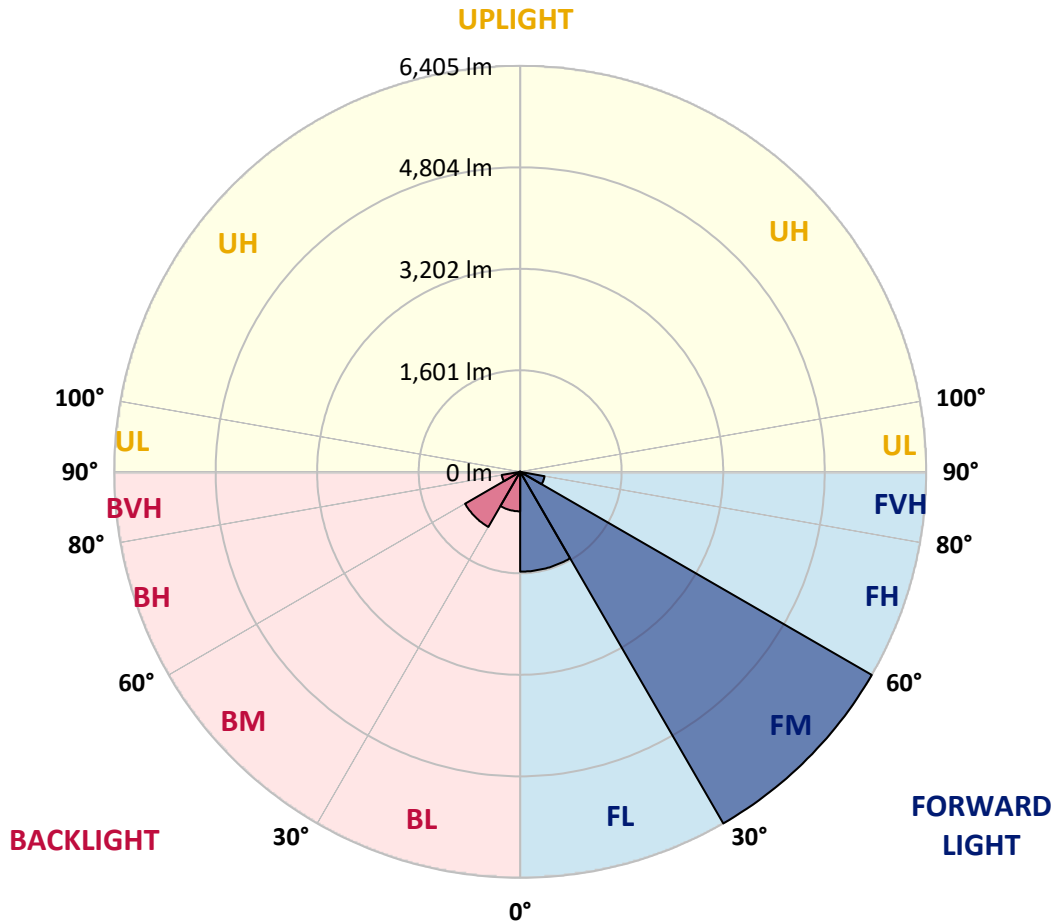


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.1	15.3			
FM (30°-60°)	6404.7	62.0			
FH (60°-80°)	390.7	3.8			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	623.5	6.0	B2/1000		
BM (30°-60°)	1004.0	9.7	B2/2500		
BH (60°-80°)	295.7	2.9	B1/500		G1/500
BVH (80°-90°)	17.8	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°	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7
2.5°	3427.2	3361.2	3368.7	3321.4	3270.4	3255.4	3203.2	3153.4	3116.1	3036.4	2963.0
5°	3745.7	3725.8	3696.0	3658.6	3620.1	3525.5	3472.0	3409.7	3272.9	3149.7	3027.7
7.5°	3791.8	3788.1	3804.2	3804.2	3817.9	3781.8	3705.9	3662.4	3516.8	3316.4	3089.9
10°	3468.2	3479.4	3557.8	3659.9	3801.7	3900.1	3887.6	3876.4	3717.1	3443.3	3163.3
12.5°	3210.6	3185.7	3231.8	3318.9	3531.7	3769.4	3929.9	3931.2	3890.1	3646.2	3216.9
15°	3065.0	3082.5	3094.9	3136.0	3296.5	3571.5	3854.0	3937.4	4117.8	3789.3	3301.5
17.5°	3158.4	3099.9	3097.4	3107.3	3189.5	3396.1	3713.4	3856.5	4242.3	3973.5	3406.0
20°	3280.3	3279.1	3244.2	3231.8	3230.5	3414.7	3621.3	3815.4	4308.2	4212.4	3511.8
22.5°	3494.4	3494.4	3437.1	3409.7	3351.3	3501.8	3633.7	3765.7	4417.7	4376.7	3562.8
25°	3852.8	3794.3	3696.0	3628.8	3595.2	3648.7	3765.7	3883.9	4513.6	4550.9	3668.6
27.5°	4183.8	4091.7	4043.2	3927.4	3882.6	3851.5	3958.5	4078.0	4625.6	4822.2	3725.8
30°	4559.6	4543.4	4456.3	4307.0	4196.2	4139.0	4237.3	4355.5	4830.9	5099.7	3857.7
32.5°	5231.6	5084.8	4966.5	4783.6	4603.2	4481.2	4578.3	4656.7	5171.9	5389.6	4002.1
35°	5957.1	5909.8	5705.7	5375.9	5099.7	4990.2	5047.4	5105.9	5568.8	5832.7	4244.8
37.5°	6670.2	6605.4	6437.5	6159.9	5823.9	5601.2	5642.3	5710.7	6014.3	6430.0	4540.9
40°	7182.9	7103.2	7018.6	6977.5	6644.0	6339.1	6315.5	6332.9	6616.6	6990.0	4869.5
42.5°	7220.2	7318.5	7344.6	7510.2	7431.8	7181.6	7036.0	7039.8	7191.6	7543.8	5201.7
45°	7141.8	7051.0	7243.8	7695.6	7954.4	8071.4	7826.2	7795.1	7547.5	7864.8	5367.2
47.5°	6319.2	6344.1	6670.2	7384.5	8132.4	8655.0	8597.8	8494.5	7737.9	7853.6	5341.1
50°	4995.2	5145.7	5448.1	6337.9	7634.6	8747.1	9084.4	8845.4	7624.6	7545.0	5074.8
52.5°	3326.4	3388.6	3587.7	4736.3	6138.8	7818.8	8524.4	8579.1	7520.1	7140.6	4737.6
55°	1480.9	1475.9	1755.9	2473.9	3851.5	5949.6	6965.1	7298.6	7118.2	6728.6	4409.0
57.5°	627.2	648.3	762.8	1069.0	1894.0	3590.2	4718.9	5011.3	5474.3	5525.3	3382.4
60°	424.4	426.8	458.0	535.1	792.7	1686.2	2475.2	2826.1	3157.1	3134.7	1794.5
62.5°	333.5	342.2	365.9	397.0	470.4	765.3	1107.5	1302.9	1324.1	1113.8	680.7
65°	285.0	286.2	309.9	336.0	368.4	445.5	533.9	543.8	550.0	530.1	500.3
67.5°	235.2	237.7	256.4	286.2	316.1	341.0	365.9	378.3	406.9	462.9	455.5
70°	186.7	190.4	206.6	231.5	258.8	273.8	304.9	316.1	342.2	385.8	403.2
72.5°	141.9	143.1	156.8	174.2	199.1	214.0	240.2	252.6	270.0	307.4	323.6
75°	102.0	105.8	115.7	124.4	128.2	138.1	163.0	176.7	201.6	217.8	219.0
77.5°	53.5	56.0	58.5	58.5	70.9	89.6	105.8	113.2	130.7	143.1	136.9
80°	21.2	22.4	28.6	38.6	49.8	64.7	75.9	79.6	94.6	102.0	105.8
82.5°	12.4	13.7	18.7	27.4	36.1	46.0	54.8	58.5	68.4	77.2	79.6
85°	6.2	7.5	11.2	17.4	23.6	28.6	27.4	26.1	26.1	24.9	26.1
87.5°	2.5	2.5	3.7	3.7	3.7	5.0	6.2	6.2	6.2	7.5	7.5
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°	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7	2910.7
2.5°	2914.5	2864.7	2818.6	2734.0	2641.9	2615.8	2508.8	2470.2	2442.8	2410.5	2400.5
5°	2929.4	2863.4	2715.4	2544.9	2409.2	2235.0	2120.5	1997.3	1907.7	1885.3	1879.1
7.5°	2960.5	2847.3	2592.2	2334.6	2057.0	1820.6	1640.2	1543.1	1457.2	1452.3	1443.5
10°	2995.3	2798.7	2457.8	2053.3	1698.7	1479.6	1371.4	1329.1	1307.9	1302.9	1300.4
12.5°	3024.0	2788.8	2307.2	1779.5	1444.8	1312.9	1280.5	1276.8	1285.5	1288.0	1293.0
15°	3036.4	2749.0	2125.5	1534.4	1286.7	1238.2	1251.9	1266.8	1273.1	1289.2	1276.8
17.5°	3060.1	2697.9	1901.5	1340.3	1198.4	1207.1	1230.7	1248.2	1258.1	1269.3	1253.1
20°	3072.5	2651.9	1691.2	1224.5	1167.3	1183.5	1215.8	1229.5	1241.9	1246.9	1228.3
22.5°	3061.3	2557.3	1505.8	1131.2	1137.4	1158.6	1187.2	1202.1	1194.7	1174.7	1163.5
25°	3031.4	2424.2	1312.9	1071.5	1095.1	1132.4	1154.8	1143.6	1129.9	1118.7	1115.0
27.5°	3030.2	2261.1	1173.5	1016.7	1059.0	1110.0	1102.6	1092.6	1098.8	1090.1	1080.2
30°	3036.4	2103.1	1059.0	985.6	1032.9	1057.8	1066.5	1056.5	1064.0	1047.8	1052.8
32.5°	3004.1	1948.8	984.3	949.5	1001.8	1000.5	1029.1	1036.6	1019.2	985.6	990.6
35°	3017.7	1824.3	920.9	933.3	966.9	966.9	989.3	980.6	934.6	914.7	919.6
37.5°	3112.3	1702.4	889.8	910.9	933.3	943.3	935.8	898.5	887.3	887.3	889.8
40°	3201.9	1597.9	871.1	905.9	902.2	908.4	853.7	857.4	857.4	858.7	852.4
42.5°	3281.6	1526.9	856.2	876.1	882.3	849.9	816.3	812.6	821.3	820.1	815.1
45°	3310.2	1468.4	835.0	842.5	847.5	793.9	777.8	770.3	780.3	784.0	789.0
47.5°	3200.7	1419.9	811.4	796.4	786.5	751.6	730.5	716.8	729.2	750.4	755.4
50°	3060.1	1356.4	774.0	745.4	724.3	709.3	694.4	680.7	689.4	704.3	700.6
52.5°	2852.2	1256.9	726.7	696.9	660.8	664.5	650.8	643.4	648.3	648.3	644.6
55°	2556.1	1032.9	647.1	625.9	596.1	606.0	608.5	598.6	588.6	597.3	589.9
57.5°	1744.7	729.2	577.4	577.4	547.6	561.2	560.0	536.4	512.7	515.2	510.2
60°	1009.2	581.2	532.6	527.6	496.5	507.7	510.2	494.0	458.0	460.4	455.5
62.5°	573.7	496.5	465.4	458.0	451.7	461.7	461.7	440.5	409.4	411.9	406.9
65°	487.8	460.4	415.6	414.4	411.9	414.4	404.4	382.0	354.7	343.5	344.7
67.5°	443.0	425.6	382.0	370.8	363.4	362.1	343.5	322.3	309.9	299.9	298.7
70°	388.3	374.6	342.2	327.3	319.8	302.4	283.7	270.0	252.6	247.6	252.6
72.5°	307.4	306.1	293.7	277.5	261.3	247.6	231.5	212.8	196.6	192.9	184.2
75°	212.8	215.3	217.8	215.3	201.6	184.2	165.5	150.6	130.7	119.5	117.0
77.5°	139.4	143.1	146.8	141.9	133.2	117.0	104.5	85.9	70.9	62.2	61.0
80°	102.0	107.0	109.5	105.8	95.8	83.4	69.7	54.8	43.6	36.1	36.1
82.5°	78.4	83.4	85.9	79.6	69.7	59.7	49.8	38.6	29.9	23.6	22.4
85°	27.4	26.1	31.1	32.4	38.6	36.1	29.9	22.4	17.4	12.4	11.2
87.5°	7.5	7.5	8.7	8.7	7.5	6.2	6.2	6.2	5.0	3.7	3.7
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)