

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: P527838

Luminaire Tested: **GALN-SA2D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527838
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-SA2D-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 10319 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

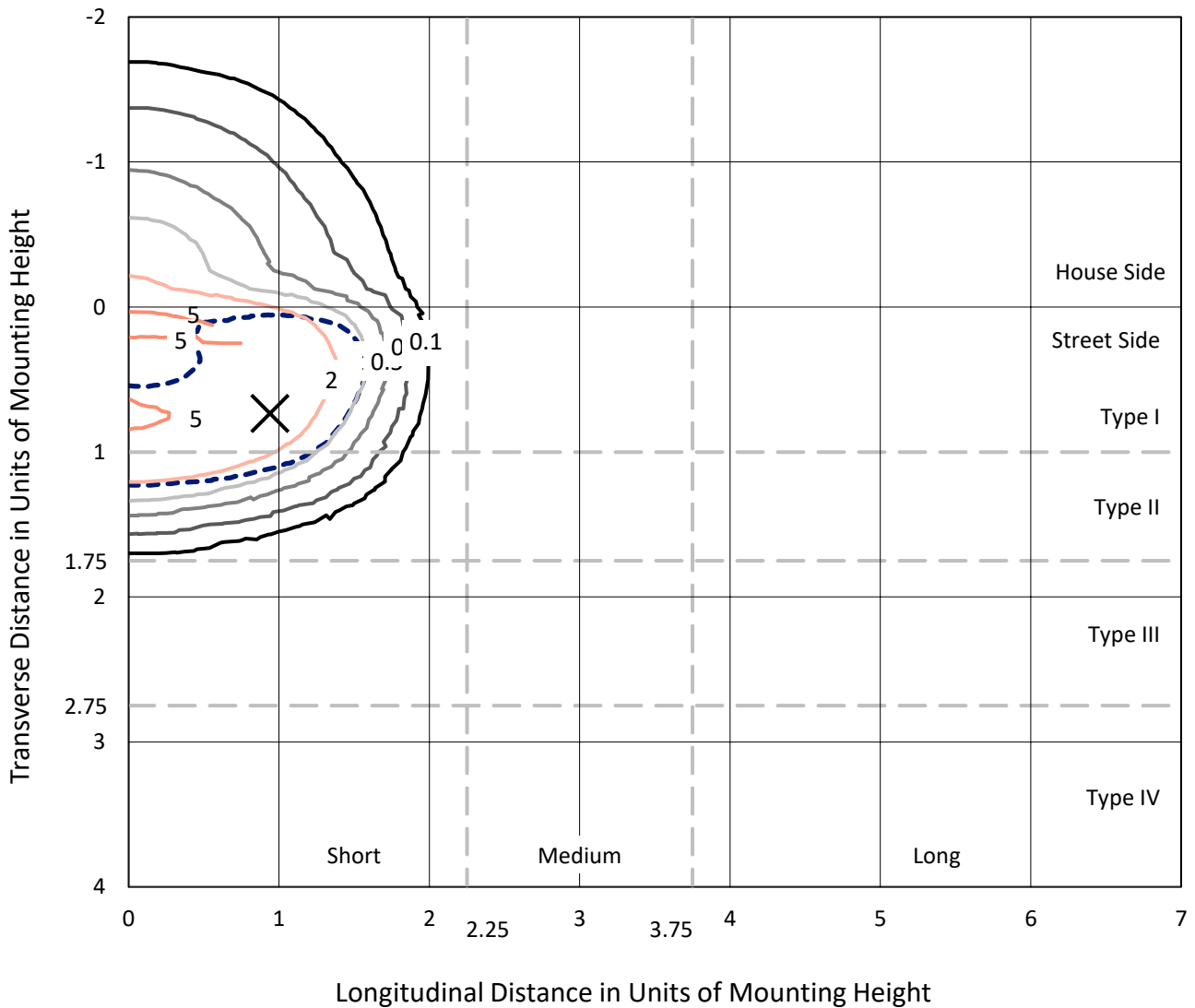
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

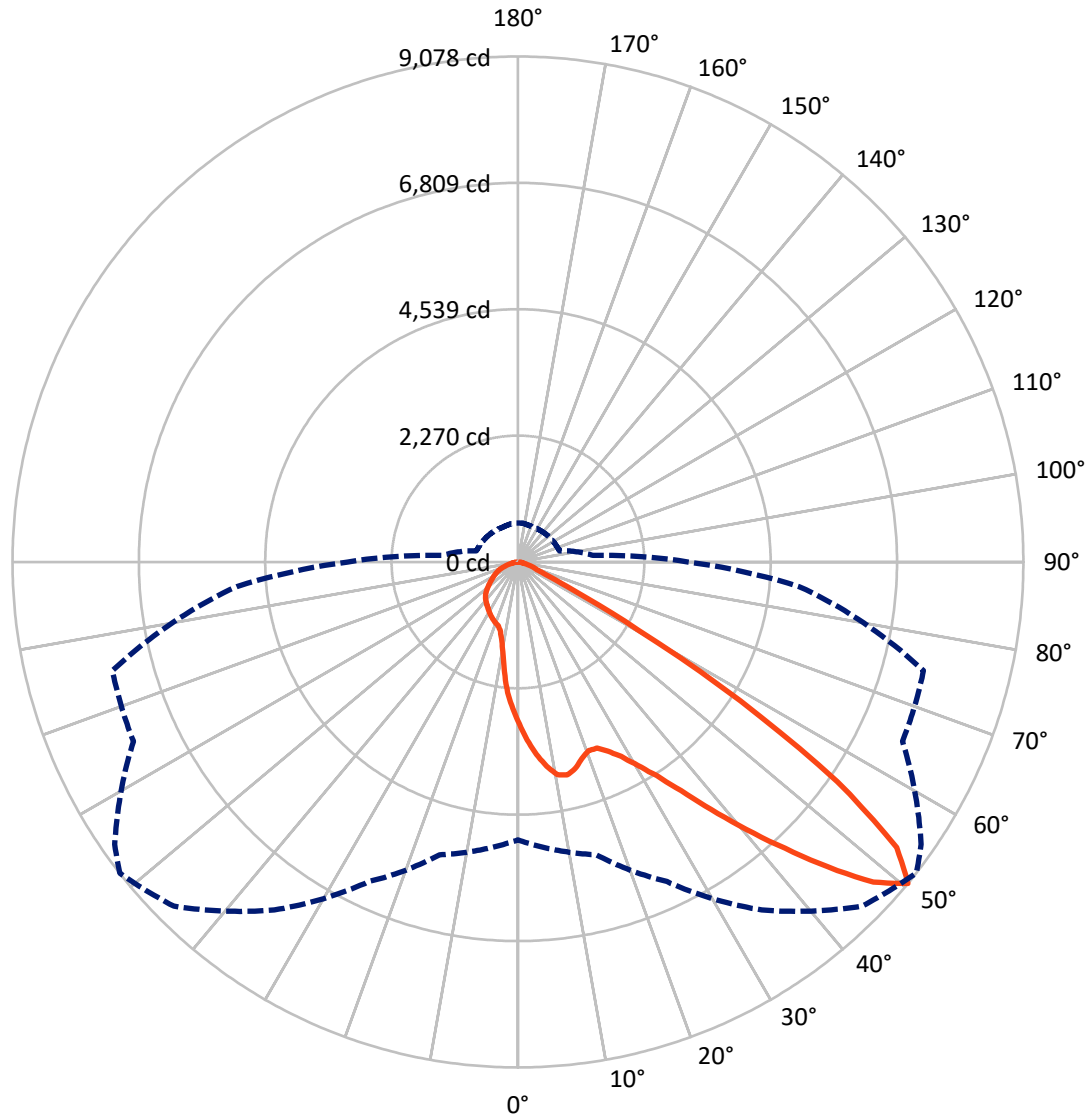
✕ Max cd
 - - - 1/2 Max cd



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	1939.7	0.0	1939.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8379.3	0.0	8379.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	10319.0	0.0	10319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	2.6
10°-20°	718.6	7.0
20°-30°	1210.4	11.7
30°-40°	2031.2	19.7
40°-50°	3107.2	30.1
50°-60°	2265.4	22.0
60°-70°	504.2	4.9
70°-80°	181.9	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°	10319.0	100.0
0°-180°	10319.0	100.0

Coefficient of Utilization

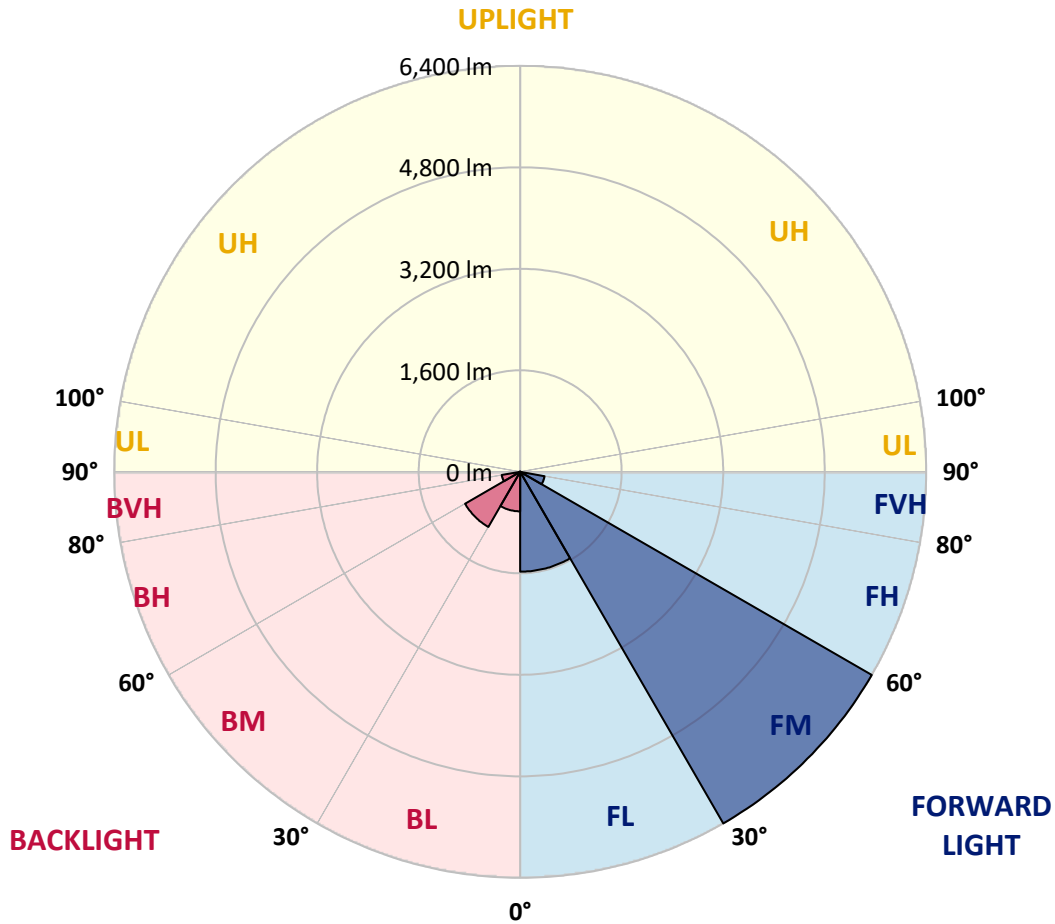


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1574.0	15.3			
FM (30°-60°)	6400.4	62.0			
FH (60°-80°)	390.5	3.8			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	623.1	6.0	B2/1000		
BM (30°-60°)	1003.4	9.7	B2/2500		
BH (60°-80°)	295.5	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°	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8
2.5°	3424.8	3358.9	3366.4	3319.1	3268.2	3253.2	3201.0	3151.3	3113.9	3034.4	2961.0
5°	3743.2	3723.3	3693.5	3656.2	3617.6	3523.1	3469.6	3407.4	3270.6	3147.5	3025.7
7.5°	3789.2	3785.5	3801.7	3801.7	3815.3	3779.3	3703.4	3659.9	3514.4	3314.2	3087.8
10°	3465.9	3477.1	3555.4	3657.4	3799.2	3897.4	3885.0	3873.8	3714.6	3441.0	3161.2
12.5°	3208.5	3183.6	3229.6	3316.7	3529.3	3766.8	3927.3	3928.5	3887.5	3643.7	3214.7
15°	3063.0	3080.4	3092.8	3133.8	3294.3	3569.1	3851.4	3934.7	4115.0	3786.7	3299.2
17.5°	3156.2	3097.8	3095.3	3105.2	3187.3	3393.8	3710.9	3853.9	4239.4	3970.8	3403.7
20°	3278.1	3276.9	3242.0	3229.6	3228.4	3412.4	3618.8	3812.8	4305.3	4209.5	3509.4
22.5°	3492.0	3492.0	3434.8	3407.4	3349.0	3499.5	3631.3	3763.1	4414.7	4373.7	3560.4
25°	3850.2	3791.7	3693.5	3626.3	3592.7	3646.2	3763.1	3881.2	4510.5	4547.8	3666.1
27.5°	4180.9	4088.9	4040.4	3924.8	3880.0	3848.9	3955.9	4075.2	4622.4	4818.9	3723.3
30°	4556.5	4540.3	4453.3	4304.1	4193.4	4136.2	4234.4	4352.6	4827.6	5096.2	3855.1
32.5°	5228.0	5081.3	4963.2	4780.4	4600.0	4478.2	4575.2	4653.5	5168.4	5386.0	3999.4
35°	5953.1	5905.8	5701.9	5372.3	5096.2	4986.8	5044.0	5102.4	5565.1	5828.7	4241.9
37.5°	6665.6	6601.0	6433.1	6155.8	5820.0	5597.4	5638.4	5706.8	6010.3	6425.6	4537.9
40°	7178.0	7098.4	7013.8	6972.8	6639.5	6334.8	6311.2	6328.6	6612.2	6985.2	4866.2
42.5°	7215.3	7313.5	7339.7	7505.1	7426.7	7176.8	7031.3	7035.0	7186.7	7538.6	5198.2
45°	7137.0	7046.2	7238.9	7690.4	7949.0	8065.9	7820.9	7789.8	7542.4	7859.5	5363.6
47.5°	6314.9	6339.8	6665.6	7379.5	8126.9	8649.2	8592.0	8488.7	7732.6	7848.3	5337.5
50°	4991.8	5142.2	5444.4	6333.6	7629.4	8741.2	9078.2	8839.4	7619.5	7539.9	5071.4
52.5°	3324.1	3386.3	3585.3	4733.1	6134.6	7813.5	8518.6	8573.3	7515.0	7135.7	4734.3
55°	1479.9	1474.9	1754.7	2472.3	3848.9	5945.6	6960.4	7293.7	7113.3	6724.1	4406.0
57.5°	626.8	647.9	762.3	1068.2	1892.7	3587.8	4715.7	5007.9	5470.5	5521.5	3380.1
60°	424.1	426.6	457.6	534.7	792.2	1685.1	2473.5	2824.2	3155.0	3132.6	1793.3
62.5°	333.3	342.0	365.6	396.7	470.1	764.8	1106.8	1302.0	1323.2	1113.0	680.2
65°	284.8	286.0	309.7	335.8	368.1	445.2	533.5	543.4	549.7	529.8	499.9
67.5°	235.0	237.5	256.2	286.0	315.9	340.7	365.6	378.1	406.7	462.6	455.2
70°	186.5	190.3	206.4	231.3	258.7	273.6	304.7	315.9	342.0	385.5	402.9
72.5°	141.8	143.0	156.7	174.1	199.0	213.9	240.0	252.4	269.9	307.2	323.3
75°	102.0	105.7	115.7	124.4	128.1	138.0	162.9	176.6	201.5	217.6	218.9
77.5°	53.5	56.0	58.4	58.4	70.9	89.5	105.7	113.2	130.6	143.0	136.8
80°	21.1	22.4	28.6	38.6	49.7	64.7	75.9	79.6	94.5	102.0	105.7
82.5°	12.4	13.7	18.7	27.4	36.1	46.0	54.7	58.4	68.4	77.1	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°	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8
2.5°	2912.5	2862.7	2816.7	2732.2	2640.1	2614.0	2507.1	2468.5	2441.2	2408.8	2398.9
5°	2927.4	2861.5	2713.5	2543.1	2407.6	2233.5	2119.1	1996.0	1906.4	1884.0	1877.8
7.5°	2958.5	2845.3	2590.4	2333.0	2055.7	1819.4	1639.1	1542.1	1456.2	1451.3	1442.6
10°	2993.3	2796.8	2456.1	2051.9	1697.5	1478.6	1370.4	1328.2	1307.0	1302.0	1299.6
12.5°	3021.9	2786.9	2305.6	1778.3	1443.8	1312.0	1279.7	1275.9	1284.6	1287.1	1292.1
15°	3034.4	2747.1	2124.1	1533.3	1285.9	1237.4	1251.1	1266.0	1272.2	1288.4	1275.9
17.5°	3058.0	2696.1	1900.2	1339.3	1197.6	1206.3	1229.9	1247.3	1257.3	1268.5	1252.3
20°	3070.4	2650.1	1690.0	1223.7	1166.5	1182.7	1215.0	1228.7	1241.1	1246.1	1227.4
22.5°	3059.2	2555.6	1504.7	1130.4	1136.6	1157.8	1186.4	1201.3	1193.8	1173.9	1162.8
25°	3029.4	2422.5	1312.0	1070.7	1094.4	1131.7	1154.1	1142.9	1129.2	1118.0	1114.3
27.5°	3028.1	2259.6	1172.7	1016.0	1058.3	1109.3	1101.8	1091.9	1098.1	1089.4	1079.4
30°	3034.4	2101.7	1058.3	984.9	1032.2	1057.1	1065.8	1055.8	1063.3	1047.1	1052.1
32.5°	3002.0	1947.5	983.7	948.9	1001.1	999.8	1028.4	1035.9	1018.5	984.9	989.9
35°	3015.7	1823.1	920.3	932.7	966.3	966.3	988.7	979.9	933.9	914.0	919.0
37.5°	3110.2	1701.2	889.2	910.3	932.7	942.6	935.2	897.9	886.7	886.7	889.2
40°	3199.8	1596.8	870.5	905.3	901.6	907.8	853.1	856.8	856.8	858.1	851.9
42.5°	3279.3	1525.9	855.6	875.5	881.7	849.4	815.8	812.1	820.8	819.5	814.6
45°	3307.9	1467.4	834.4	841.9	846.9	793.4	777.2	769.8	779.7	783.5	788.4
47.5°	3198.5	1418.9	810.8	795.9	785.9	751.1	730.0	716.3	728.7	749.9	754.9
50°	3058.0	1355.5	773.5	744.9	723.8	708.8	693.9	680.2	688.9	703.9	700.1
52.5°	2850.3	1256.0	726.3	696.4	660.3	664.1	650.4	642.9	647.9	647.9	644.2
55°	2554.3	1032.2	646.7	625.5	595.7	605.6	608.1	598.2	588.2	596.9	589.5
57.5°	1743.5	728.7	577.0	577.0	547.2	560.9	559.6	536.0	512.4	514.8	509.9
60°	1008.6	580.8	532.3	527.3	496.2	507.4	509.9	493.7	457.6	460.1	455.2
62.5°	573.3	496.2	465.1	457.6	451.4	461.4	461.4	440.2	409.1	411.6	406.7
65°	487.5	460.1	415.4	414.1	411.6	414.1	404.2	381.8	354.4	343.2	344.5
67.5°	442.7	425.3	381.8	370.6	363.1	361.9	343.2	322.1	309.7	299.7	298.5
70°	388.0	374.3	342.0	327.1	319.6	302.2	283.5	269.9	252.4	247.5	252.4
72.5°	307.2	305.9	293.5	277.3	261.2	247.5	231.3	212.7	196.5	192.8	184.1
75°	212.7	215.1	217.6	215.1	201.5	184.1	165.4	150.5	130.6	119.4	116.9
77.5°	139.3	143.0	146.7	141.8	133.1	116.9	104.5	85.8	70.9	62.2	60.9
80°	102.0	106.9	109.4	105.7	95.8	83.3	69.6	54.7	43.5	36.1	36.1
82.5°	78.3	83.3	85.8	79.6	69.6	59.7	49.7	38.6	29.8	23.6	22.4
85°	27.4	26.1	31.1	32.3	38.6	36.1	29.8	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)