

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: P527266

Luminaire Tested: **GALN-SA2B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527266
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-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 9619 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

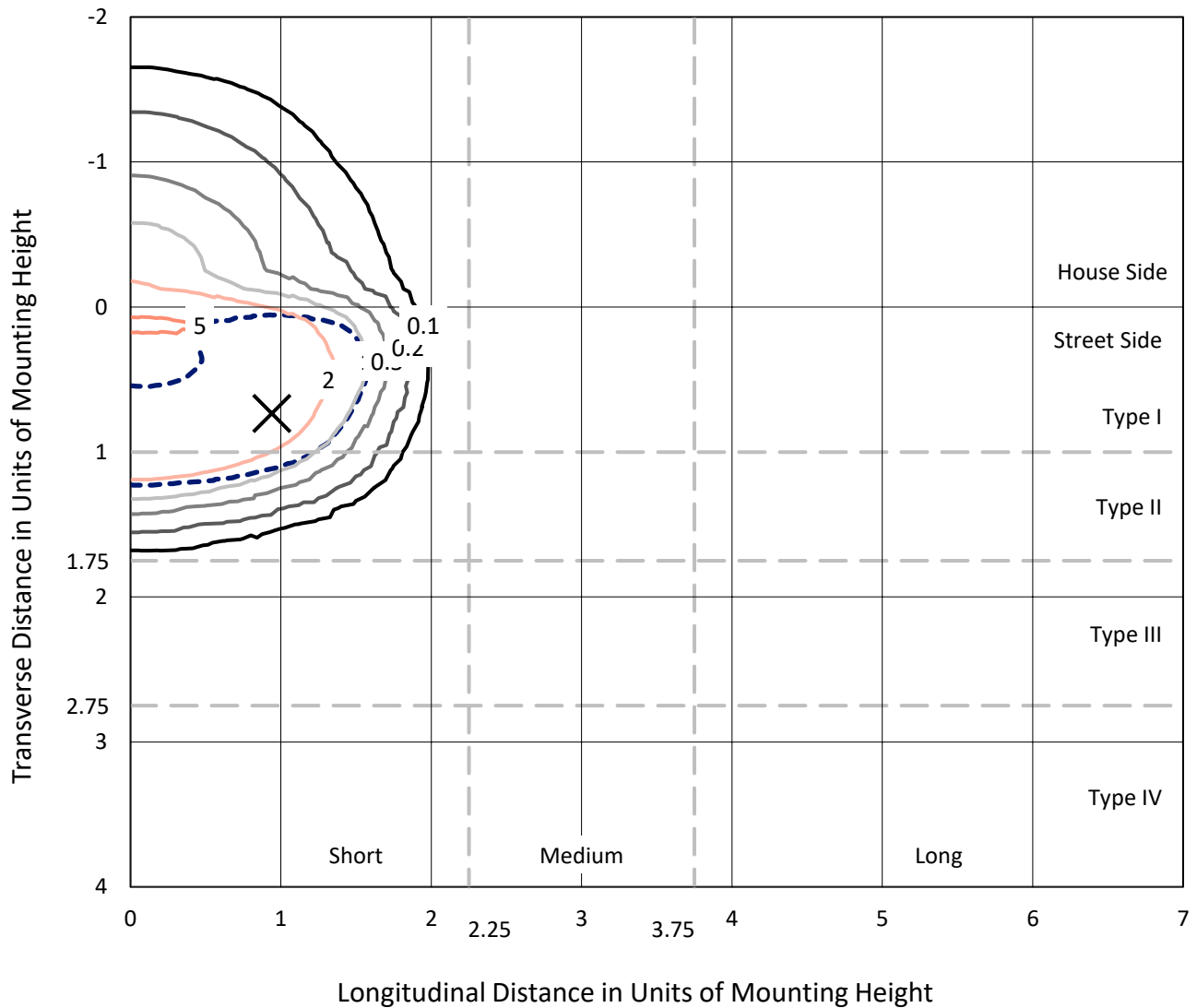
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

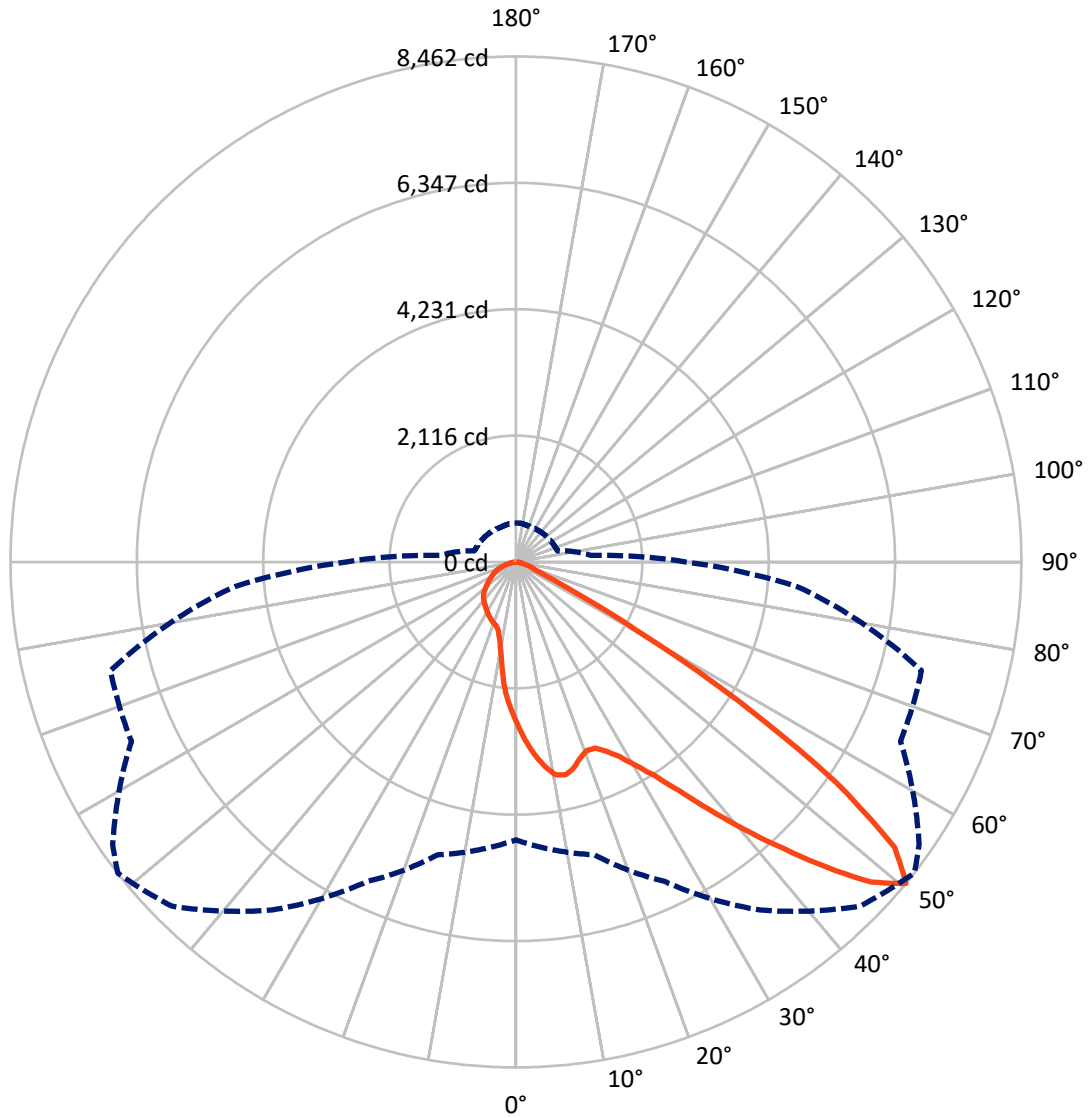
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1808.1	0.0	1808.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7810.9	0.0	7810.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	9619.0	0.0	9619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	2.6
10°-20°	669.8	7.0
20°-30°	1128.3	11.7
30°-40°	1893.4	19.7
40°-50°	2896.4	30.1
50°-60°	2111.7	22.0
60°-70°	470.0	4.9
70°-80°	169.5	1.8
80°-90°	30.0	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°	9619.0	100.0
0°-180°	9619.0	100.0

Coefficient of Utilization



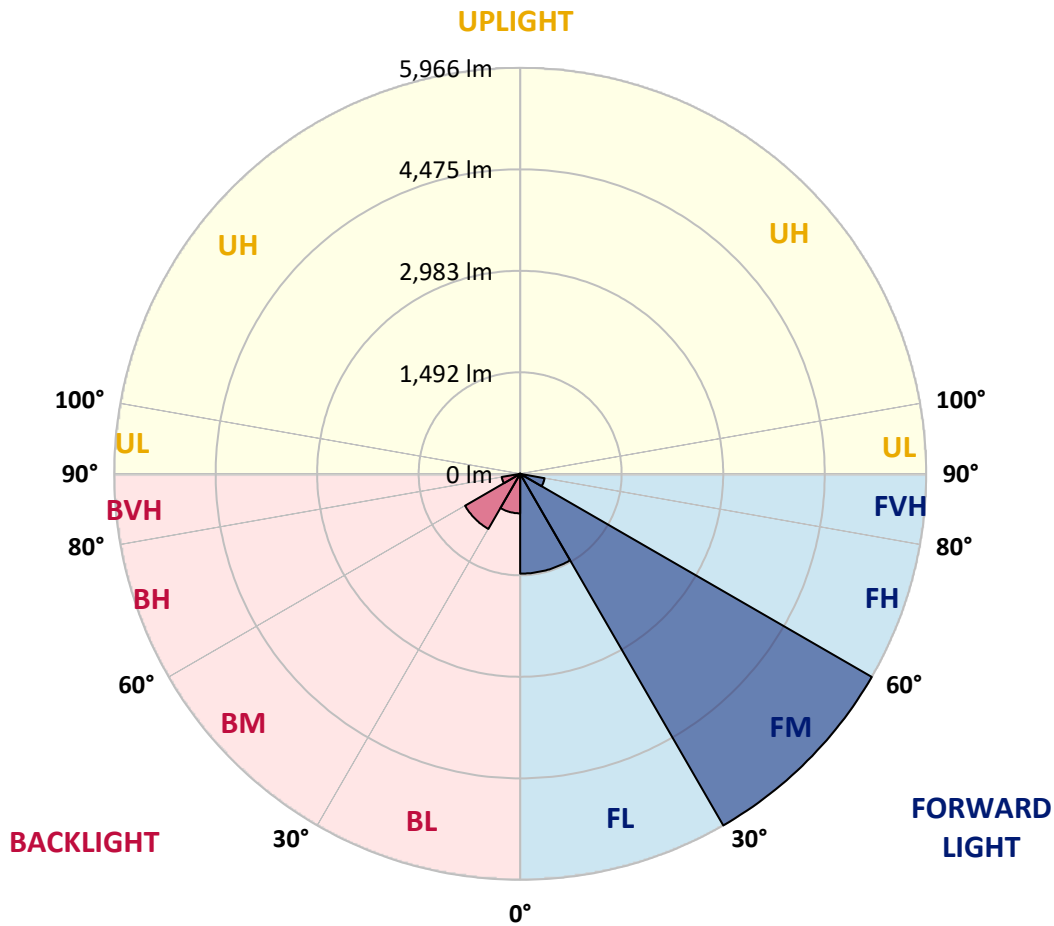
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1467.2	15.3			
FM (30°-60°)	5966.2	62.0			
FH (60°-80°)	364.0	3.8			G0/660
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	580.8	6.0	B2/1000		
BM (30°-60°)	935.3	9.7	B1/1000		
BH (60°-80°)	275.5	2.9	B1/500		G1/500
BVH (80°-90°)	16.6	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°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2.5°	3192.5	3131.1	3138.0	3094.0	3046.5	3032.5	2983.9	2937.5	2902.7	2828.5	2760.1
5°	3489.3	3470.7	3442.9	3408.1	3372.2	3284.1	3234.2	3176.3	3048.8	2934.0	2820.4
7.5°	3532.2	3528.7	3543.8	3543.8	3556.5	3522.9	3452.2	3411.6	3276.0	3089.3	2878.4
10°	3230.8	3241.2	3314.2	3409.3	3541.4	3633.0	3621.4	3611.0	3462.6	3207.6	2946.8
12.5°	2990.8	2967.6	3010.5	3091.7	3289.9	3511.3	3660.8	3662.0	3623.7	3396.5	2996.6
15°	2855.2	2871.4	2883.0	2921.3	3070.8	3327.0	3590.1	3667.8	3835.9	3529.9	3075.4
17.5°	2942.1	2887.6	2885.3	2894.6	2971.1	3163.5	3459.1	3592.5	3951.8	3701.4	3172.8
20°	3055.7	3054.6	3022.1	3010.5	3009.4	3180.9	3373.4	3554.2	4013.3	3924.0	3271.3
22.5°	3255.1	3255.1	3201.8	3176.3	3121.8	3262.1	3384.9	3507.8	4115.3	4077.0	3318.9
25°	3589.0	3534.5	3442.9	3380.3	3349.0	3398.9	3507.8	3618.0	4204.5	4239.3	3417.4
27.5°	3897.3	3811.5	3766.3	3658.5	3616.8	3587.8	3687.5	3798.8	4308.9	4492.0	3470.7
30°	4247.4	4232.3	4151.2	4012.1	3908.9	3855.6	3947.2	4057.3	4500.1	4750.5	3593.6
32.5°	4873.4	4736.6	4626.5	4456.1	4288.0	4174.4	4264.8	4337.8	4817.8	5020.6	3728.1
35°	5549.2	5505.2	5315.1	5007.9	4750.5	4648.5	4701.8	4756.3	5187.5	5433.3	3954.1
37.5°	6213.5	6153.2	5996.7	5738.2	5425.2	5217.7	5255.9	5319.7	5602.6	5989.7	4230.0
40°	6691.1	6616.9	6538.1	6499.8	6189.1	5905.1	5883.1	5899.3	6163.6	6511.4	4536.1
42.5°	6725.8	6817.4	6841.8	6995.9	6922.9	6689.9	6554.3	6557.8	6699.2	7027.2	4845.6
45°	6652.8	6568.2	6747.9	7168.7	7409.8	7518.8	7290.4	7261.4	7030.7	7326.3	4999.8
47.5°	5886.6	5909.7	6213.5	6878.9	7575.6	8062.4	8009.1	7912.9	7208.1	7315.9	4975.4
50°	4653.1	4793.4	5075.1	5904.0	7111.9	8148.2	8462.4	8239.8	7102.6	7028.4	4727.3
52.5°	3098.6	3156.6	3342.1	4412.0	5718.5	7283.4	7940.7	7991.7	7005.2	6651.7	4413.2
55°	1379.5	1374.8	1635.7	2304.5	3587.8	5542.3	6488.2	6798.9	6630.8	6268.0	4107.1
57.5°	584.3	604.0	710.6	995.8	1764.3	3344.4	4395.8	4668.2	5099.4	5147.0	3150.8
60°	395.3	397.6	426.6	498.5	738.4	1570.8	2305.7	2632.6	2941.0	2920.1	1671.6
62.5°	310.7	318.8	340.8	369.8	438.2	712.9	1031.7	1213.7	1233.4	1037.5	634.1
65°	265.5	266.6	288.6	313.0	343.1	415.0	497.3	506.6	512.4	493.8	466.0
67.5°	219.1	221.4	238.8	266.6	294.4	317.6	340.8	352.4	379.1	431.2	424.3
70°	173.9	177.4	192.4	215.6	241.1	255.0	284.0	294.4	318.8	359.4	375.6
72.5°	132.2	133.3	146.1	162.3	185.5	199.4	223.7	235.3	251.6	286.3	301.4
75°	95.1	98.5	107.8	115.9	119.4	128.7	151.9	164.6	187.8	202.9	204.0
77.5°	49.8	52.2	54.5	54.5	66.1	83.5	98.5	105.5	121.7	133.3	127.5
80°	19.7	20.9	26.7	35.9	46.4	60.3	70.7	74.2	88.1	95.1	98.5
82.5°	11.6	12.8	17.4	25.5	33.6	42.9	51.0	54.5	63.8	71.9	74.2
85°	5.8	7.0	10.4	16.2	22.0	26.7	25.5	24.3	24.3	23.2	24.3
87.5°	2.3	2.3	3.5	3.5	3.5	4.6	5.8	5.8	5.8	7.0	7.0
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°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2.5°	2714.9	2668.5	2625.7	2546.8	2461.0	2436.7	2337.0	2301.1	2275.6	2245.4	2236.2
5°	2728.8	2667.4	2529.4	2370.6	2244.3	2082.0	1975.3	1860.6	1777.1	1756.2	1750.4
7.5°	2757.8	2652.3	2414.7	2174.7	1916.2	1696.0	1527.9	1437.4	1357.5	1352.8	1344.7
10°	2790.3	2607.1	2289.5	1912.7	1582.3	1378.3	1277.5	1238.1	1218.3	1213.7	1211.4
12.5°	2816.9	2597.8	2149.2	1657.7	1345.9	1223.0	1192.8	1189.4	1197.5	1199.8	1204.4
15°	2828.5	2560.7	1980.0	1429.3	1198.6	1153.4	1166.2	1180.1	1185.9	1201.0	1189.4
17.5°	2850.5	2513.2	1771.3	1248.5	1116.3	1124.5	1146.5	1162.7	1172.0	1182.4	1167.3
20°	2862.1	2470.3	1575.4	1140.7	1087.4	1102.4	1132.6	1145.3	1156.9	1161.5	1144.2
22.5°	2851.7	2382.2	1402.7	1053.7	1059.5	1079.2	1105.9	1119.8	1112.9	1094.3	1083.9
25°	2823.9	2258.2	1223.0	998.1	1020.1	1054.9	1075.8	1065.3	1052.6	1042.1	1038.7
27.5°	2822.7	2106.3	1093.2	947.1	986.5	1034.0	1027.1	1017.8	1023.6	1015.5	1006.2
30°	2828.5	1959.1	986.5	918.1	962.2	985.3	993.5	984.2	991.1	976.1	980.7
32.5°	2798.4	1815.4	917.0	884.5	933.2	932.0	958.7	965.6	949.4	918.1	922.7
35°	2811.1	1699.4	857.8	869.4	900.7	900.7	921.6	913.5	870.6	852.0	856.7
37.5°	2899.2	1585.8	828.8	848.6	869.4	878.7	871.7	837.0	826.5	826.5	828.8
40°	2982.7	1488.5	811.5	843.9	840.4	846.2	795.2	798.7	798.7	799.9	794.1
42.5°	3056.9	1422.4	797.5	816.1	821.9	791.8	760.5	757.0	765.1	763.9	759.3
45°	3083.5	1367.9	777.8	784.8	789.4	739.6	724.5	717.6	726.8	730.3	735.0
47.5°	2981.5	1322.7	755.8	741.9	732.6	700.2	680.5	667.7	679.3	699.0	703.7
50°	2850.5	1263.6	721.0	694.4	674.7	660.8	646.8	634.1	642.2	656.1	652.6
52.5°	2657.0	1170.8	677.0	649.2	615.6	619.0	606.3	599.3	604.0	604.0	600.5
55°	2381.1	962.2	602.8	583.1	555.3	564.5	566.9	557.6	548.3	556.4	549.5
57.5°	1625.2	679.3	537.9	537.9	510.1	522.8	521.7	499.6	477.6	479.9	475.3
60°	940.1	541.4	496.2	491.5	462.5	473.0	475.3	460.2	426.6	428.9	424.3
62.5°	534.4	462.5	433.6	426.6	420.8	430.1	430.1	410.4	381.4	383.7	379.1
65°	454.4	428.9	387.2	386.0	383.7	386.0	376.7	355.9	330.4	319.9	321.1
67.5°	412.7	396.5	355.9	345.5	338.5	337.3	319.9	300.2	288.6	279.4	278.2
70°	361.7	348.9	318.8	304.9	297.9	281.7	264.3	251.6	235.3	230.7	235.3
72.5°	286.3	285.2	273.6	258.5	243.4	230.7	215.6	198.2	183.2	179.7	171.6
75°	198.2	200.5	202.9	200.5	187.8	171.6	154.2	140.3	121.7	111.3	109.0
77.5°	129.8	133.3	136.8	132.2	124.0	109.0	97.4	80.0	66.1	58.0	56.8
80°	95.1	99.7	102.0	98.5	89.3	77.7	64.9	51.0	40.6	33.6	33.6
82.5°	73.0	77.7	80.0	74.2	64.9	55.6	46.4	35.9	27.8	22.0	20.9
85°	25.5	24.3	29.0	30.1	35.9	33.6	27.8	20.9	16.2	11.6	10.4
87.5°	7.0	7.0	8.1	8.1	7.0	5.8	5.8	5.8	4.6	3.5	3.5
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)