

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: P527058

Luminaire Tested: **GALN-SA2A-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527058
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-SA2A-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 8298 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

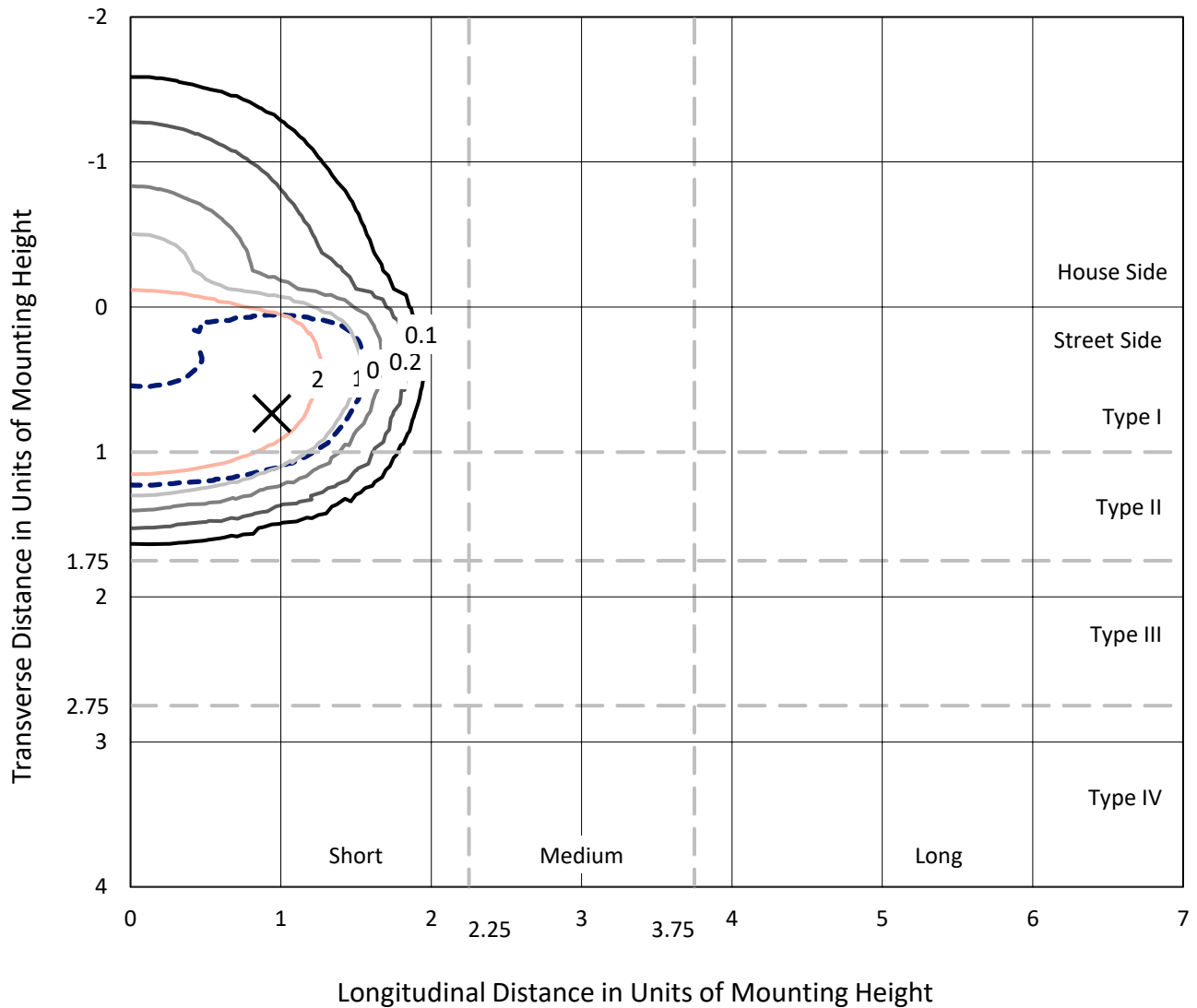
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

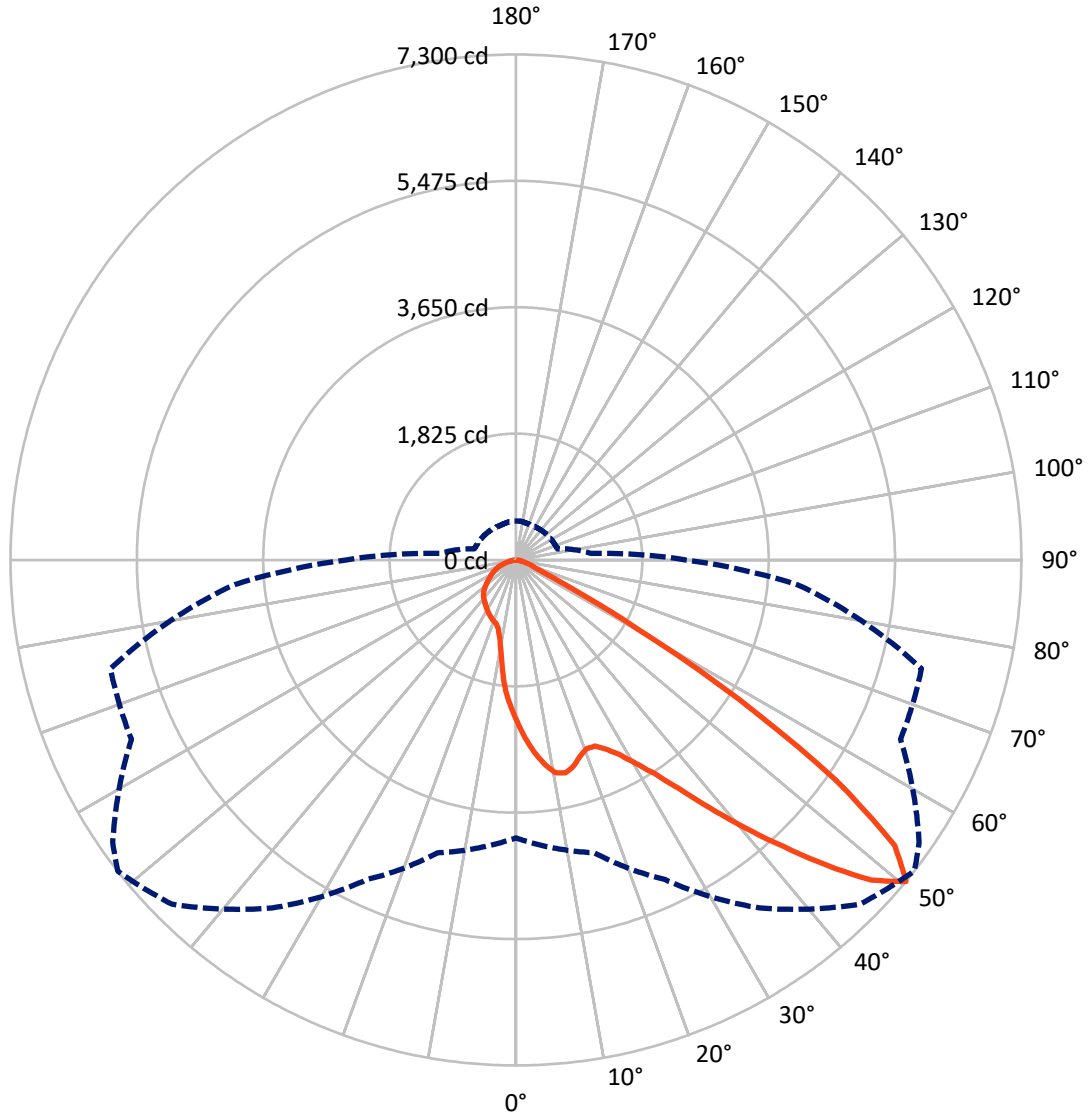
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1559.8	0.0	1559.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6738.2	0.0	6738.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	8298.0	0.0	8298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	2.6
10°-20°	577.8	7.0
20°-30°	973.3	11.7
30°-40°	1633.3	19.7
40°-50°	2498.6	30.1
50°-60°	1821.7	22.0
60°-70°	405.4	4.9
70°-80°	146.2	1.8
80°-90°	25.9	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°	8298.0	100.0
0°-180°	8298.0	100.0

Coefficient of Utilization



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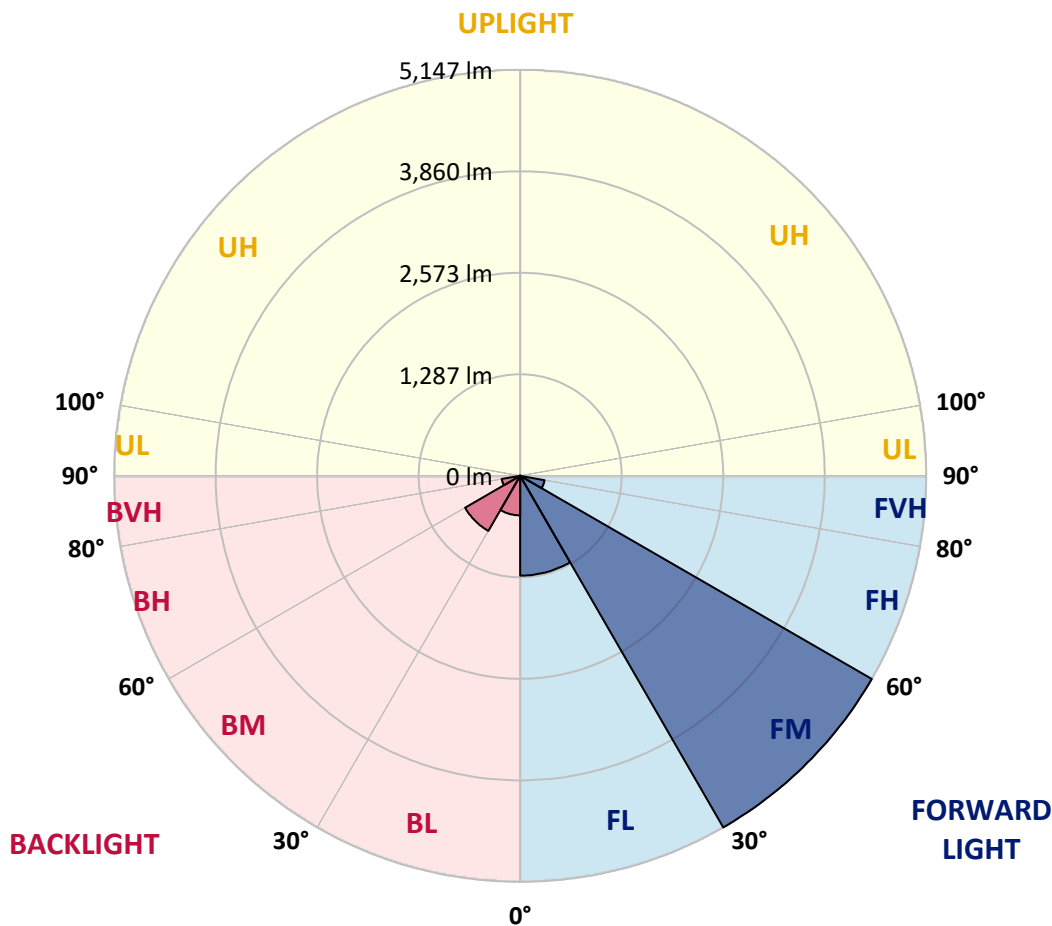
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.7	15.3			
FM (30°-60°)	5146.8	62.0			
FH (60°-80°)	314.0	3.8			G0/660
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	501.0	6.0	B2/1000		
BM (30°-60°)	806.8	9.7	B1/1000		
BH (60°-80°)	237.6	2.9	B1/500		G1/500
BVH (80°-90°)	14.3	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°	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1
2.5°	2754.1	2701.1	2707.1	2669.1	2628.1	2616.1	2574.1	2534.1	2504.1	2440.1	2381.1
5°	3010.1	2994.1	2970.1	2940.1	2909.1	2833.1	2790.1	2740.1	2630.1	2531.1	2433.1
7.5°	3047.1	3044.1	3057.1	3057.1	3068.1	3039.1	2978.1	2943.1	2826.1	2665.1	2483.1
10°	2787.1	2796.1	2859.1	2941.1	3055.1	3134.1	3124.1	3115.1	2987.1	2767.1	2542.1
12.5°	2580.1	2560.1	2597.1	2667.1	2838.1	3029.1	3158.1	3159.1	3126.1	2930.1	2585.1
15°	2463.1	2477.1	2487.1	2520.1	2649.1	2870.1	3097.1	3164.1	3309.1	3045.1	2653.1
17.5°	2538.1	2491.1	2489.1	2497.1	2563.1	2729.1	2984.1	3099.1	3409.1	3193.1	2737.1
20°	2636.1	2635.1	2607.1	2597.1	2596.1	2744.1	2910.1	3066.1	3462.1	3385.1	2822.1
22.5°	2808.1	2808.1	2762.1	2740.1	2693.1	2814.1	2920.1	3026.1	3550.1	3517.1	2863.1
25°	3096.1	3049.1	2970.1	2916.1	2889.1	2932.1	3026.1	3121.1	3627.1	3657.1	2948.1
27.5°	3362.1	3288.1	3249.1	3156.1	3120.1	3095.1	3181.1	3277.1	3717.1	3875.1	2994.1
30°	3664.1	3651.1	3581.1	3461.1	3372.1	3326.1	3405.1	3500.1	3882.1	4098.1	3100.1
32.5°	4204.1	4086.1	3991.1	3844.1	3699.1	3601.1	3679.1	3742.1	4156.1	4331.1	3216.1
35°	4787.1	4749.1	4585.1	4320.1	4098.1	4010.1	4056.1	4103.1	4475.1	4687.1	3411.1
37.5°	5360.2	5308.2	5173.2	4950.1	4680.1	4501.1	4534.1	4589.1	4833.1	5167.2	3649.1
40°	5772.2	5708.2	5640.2	5607.2	5339.2	5094.1	5075.1	5089.1	5317.2	5617.2	3913.1
42.5°	5802.2	5881.2	5902.2	6035.2	5972.2	5771.2	5654.2	5657.2	5779.2	6062.2	4180.1
45°	5739.2	5666.2	5821.2	6184.2	6392.2	6486.2	6289.2	6264.2	6065.2	6320.2	4313.1
47.5°	5078.1	5098.1	5360.2	5934.2	6535.2	6955.2	6909.2	6826.2	6218.2	6311.2	4292.1
50°	4014.1	4135.1	4378.1	5093.1	6135.2	7029.2	7300.2	7108.2	6127.2	6063.2	4078.1
52.5°	2673.1	2723.1	2883.1	3806.1	4933.1	6283.2	6850.2	6894.2	6043.2	5738.2	3807.1
55°	1190.0	1186.0	1411.0	1988.1	3095.1	4781.1	5597.2	5865.2	5720.2	5407.2	3543.1
57.5°	504.0	521.0	613.0	859.0	1522.0	2885.1	3792.1	4027.1	4399.1	4440.1	2718.1
60°	341.0	343.0	368.0	430.0	637.0	1355.0	1989.1	2271.1	2537.1	2519.1	1442.0
62.5°	268.0	275.0	294.0	319.0	378.0	615.0	890.0	1047.0	1064.0	895.0	547.0
65°	229.0	230.0	249.0	270.0	296.0	358.0	429.0	437.0	442.0	426.0	402.0
67.5°	189.0	191.0	206.0	230.0	254.0	274.0	294.0	304.0	327.0	372.0	366.0
70°	150.0	153.0	166.0	186.0	208.0	220.0	245.0	254.0	275.0	310.0	324.0
72.5°	114.0	115.0	126.0	140.0	160.0	172.0	193.0	203.0	217.0	247.0	260.0
75°	82.0	85.0	93.0	100.0	103.0	111.0	131.0	142.0	162.0	175.0	176.0
77.5°	43.0	45.0	47.0	47.0	57.0	72.0	85.0	91.0	105.0	115.0	110.0
80°	17.0	18.0	23.0	31.0	40.0	52.0	61.0	64.0	76.0	82.0	85.0
82.5°	10.0	11.0	15.0	22.0	29.0	37.0	44.0	47.0	55.0	62.0	64.0
85°	5.0	6.0	9.0	14.0	19.0	23.0	22.0	21.0	21.0	20.0	21.0
87.5°	2.0	2.0	3.0	3.0	3.0	4.0	5.0	5.0	5.0	6.0	6.0
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°	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1
2.5°	2342.1	2302.1	2265.1	2197.1	2123.1	2102.1	2016.1	1985.1	1963.1	1937.1	1929.1
5°	2354.1	2301.1	2182.1	2045.1	1936.1	1796.1	1704.1	1605.0	1533.0	1515.0	1510.0
7.5°	2379.1	2288.1	2083.1	1876.1	1653.0	1463.0	1318.0	1240.0	1171.0	1167.0	1160.0
10°	2407.1	2249.1	1975.1	1650.0	1365.0	1189.0	1102.0	1068.0	1051.0	1047.0	1045.0
12.5°	2430.1	2241.1	1854.1	1430.0	1161.0	1055.0	1029.0	1026.0	1033.0	1035.0	1039.0
15°	2440.1	2209.1	1708.1	1233.0	1034.0	995.0	1006.0	1018.0	1023.0	1036.0	1026.0
17.5°	2459.1	2168.1	1528.0	1077.0	963.0	970.0	989.0	1003.0	1011.0	1020.0	1007.0
20°	2469.1	2131.1	1359.0	984.0	938.0	951.0	977.0	988.0	998.0	1002.0	987.0
22.5°	2460.1	2055.1	1210.0	909.0	914.0	931.0	954.0	966.0	960.0	944.0	935.0
25°	2436.1	1948.1	1055.0	861.0	880.0	910.0	928.0	919.0	908.0	899.0	896.0
27.5°	2435.1	1817.1	943.0	817.0	851.0	892.0	886.0	878.0	883.0	876.0	868.0
30°	2440.1	1690.0	851.0	792.0	830.0	850.0	857.0	849.0	855.0	842.0	846.0
32.5°	2414.1	1566.0	791.0	763.0	805.0	804.0	827.0	833.0	819.0	792.0	796.0
35°	2425.1	1466.0	740.0	750.0	777.0	777.0	795.0	788.0	751.0	735.0	739.0
37.5°	2501.1	1368.0	715.0	732.0	750.0	758.0	752.0	722.0	713.0	713.0	715.0
40°	2573.1	1284.0	700.0	728.0	725.0	730.0	686.0	689.0	689.0	690.0	685.0
42.5°	2637.1	1227.0	688.0	704.0	709.0	683.0	656.0	653.0	660.0	659.0	655.0
45°	2660.1	1180.0	671.0	677.0	681.0	638.0	625.0	619.0	627.0	630.0	634.0
47.5°	2572.1	1141.0	652.0	640.0	632.0	604.0	587.0	576.0	586.0	603.0	607.0
50°	2459.1	1090.0	622.0	599.0	582.0	570.0	558.0	547.0	554.0	566.0	563.0
52.5°	2292.1	1010.0	584.0	560.0	531.0	534.0	523.0	517.0	521.0	521.0	518.0
55°	2054.1	830.0	520.0	503.0	479.0	487.0	489.0	481.0	473.0	480.0	474.0
57.5°	1402.0	586.0	464.0	464.0	440.0	451.0	450.0	431.0	412.0	414.0	410.0
60°	811.0	467.0	428.0	424.0	399.0	408.0	410.0	397.0	368.0	370.0	366.0
62.5°	461.0	399.0	374.0	368.0	363.0	371.0	371.0	354.0	329.0	331.0	327.0
65°	392.0	370.0	334.0	333.0	331.0	333.0	325.0	307.0	285.0	276.0	277.0
67.5°	356.0	342.0	307.0	298.0	292.0	291.0	276.0	259.0	249.0	241.0	240.0
70°	312.0	301.0	275.0	263.0	257.0	243.0	228.0	217.0	203.0	199.0	203.0
72.5°	247.0	246.0	236.0	223.0	210.0	199.0	186.0	171.0	158.0	155.0	148.0
75°	171.0	173.0	175.0	173.0	162.0	148.0	133.0	121.0	105.0	96.0	94.0
77.5°	112.0	115.0	118.0	114.0	107.0	94.0	84.0	69.0	57.0	50.0	49.0
80°	82.0	86.0	88.0	85.0	77.0	67.0	56.0	44.0	35.0	29.0	29.0
82.5°	63.0	67.0	69.0	64.0	56.0	48.0	40.0	31.0	24.0	19.0	18.0
85°	22.0	21.0	25.0	26.0	31.0	29.0	24.0	18.0	14.0	10.0	9.0
87.5°	6.0	6.0	7.0	7.0	6.0	5.0	5.0	5.0	4.0	3.0	3.0
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)