

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: P527214

Luminaire Tested: **GALN-SA2B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527214
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-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 8635 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

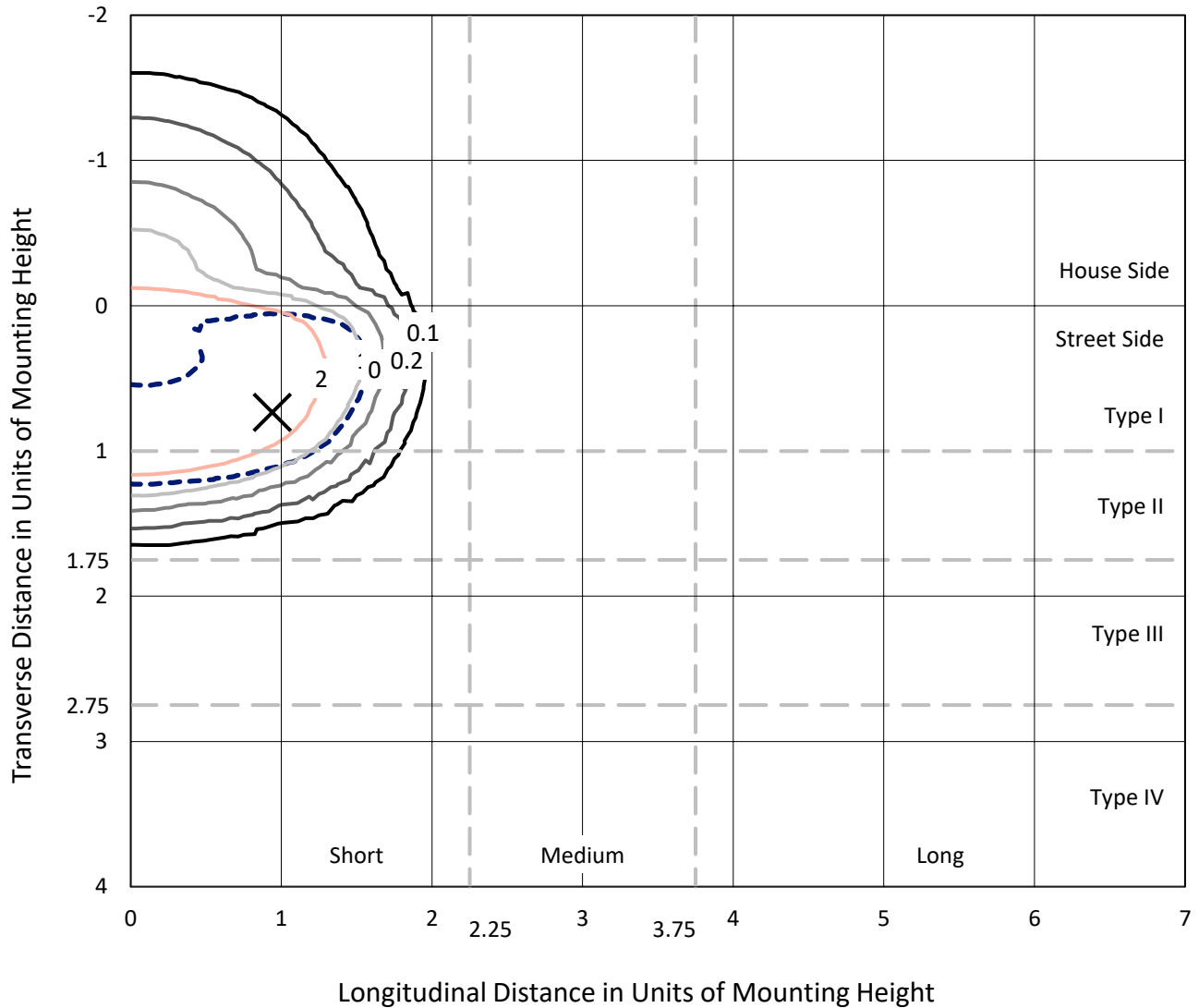
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

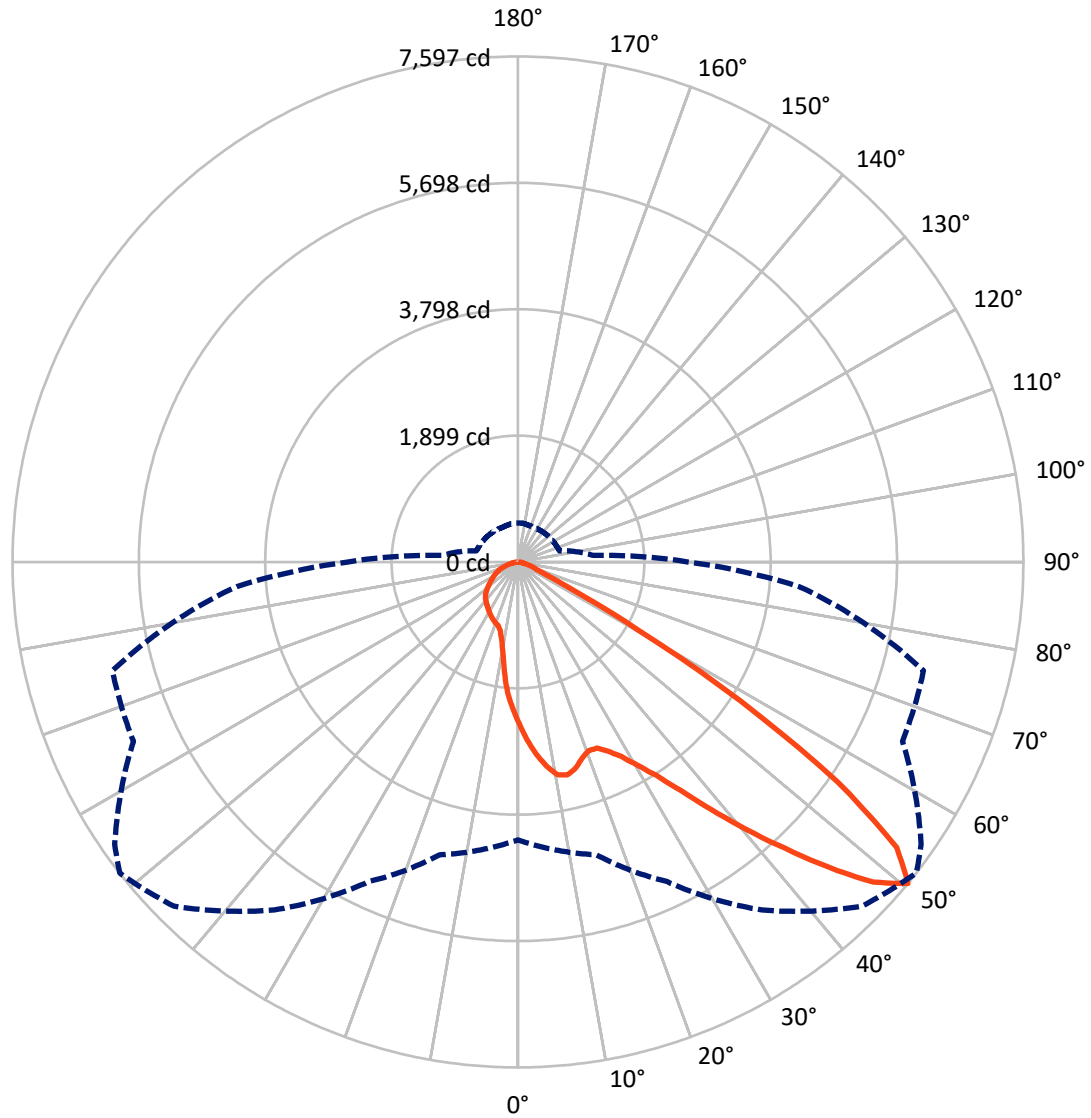
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1623.2	0.0	1623.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7011.8	0.0	7011.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	8635.0	0.0	8635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	2.6
10°-20°	601.3	7.0
20°-30°	1012.9	11.7
30°-40°	1699.7	19.7
40°-50°	2600.1	30.1
50°-60°	1895.7	22.0
60°-70°	421.9	4.9
70°-80°	152.2	1.8
80°-90°	26.9	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°	8635.0	100.0
0°-180°	8635.0	100.0

Coefficient of Utilization



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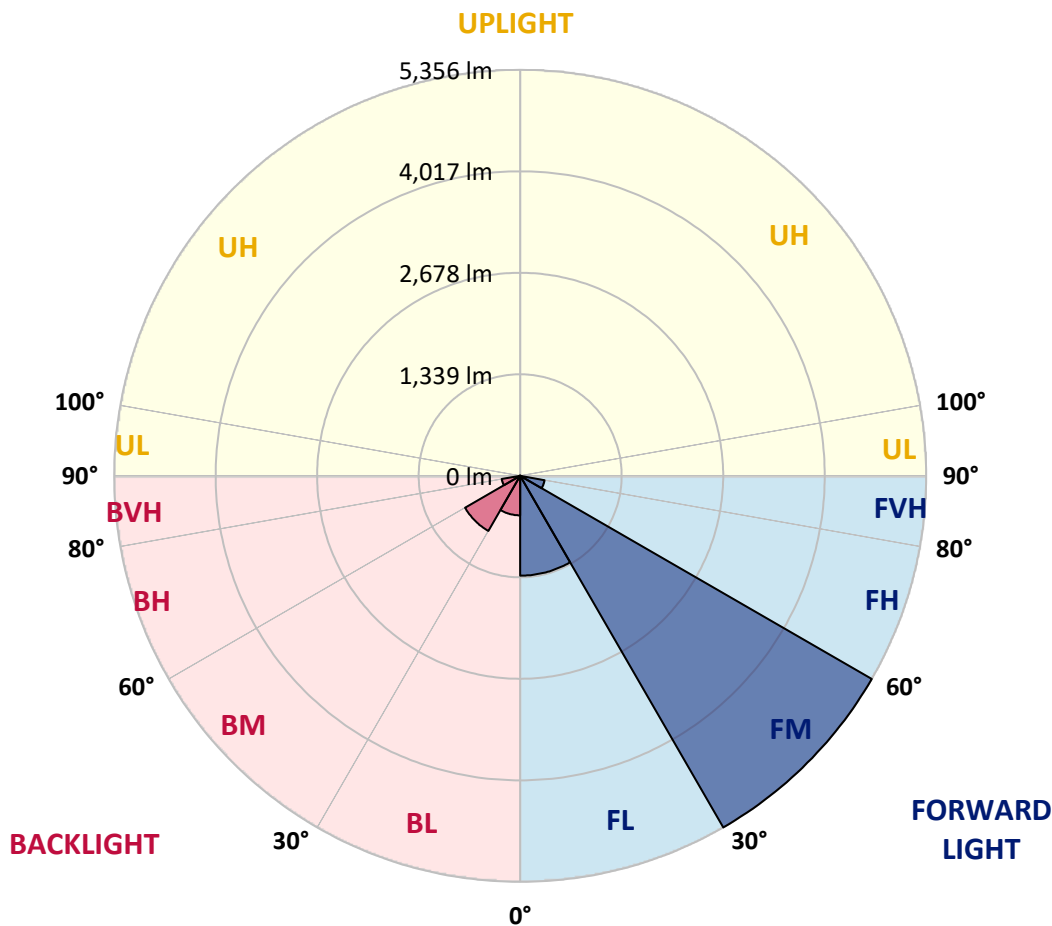
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.1	15.3			
FM (30°-60°)	5355.9	62.0			
FH (60°-80°)	326.8	3.8			G0/660
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	521.4	6.0	B2/1000		
BM (30°-60°)	839.6	9.7	B1/1000		
BH (60°-80°)	247.3	2.9	B1/500		G1/500
BVH (80°-90°)	14.9	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°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2865.9	2810.8	2817.0	2777.5	2734.8	2722.3	2678.6	2637.0	2605.8	2539.2	2477.8
5°	3132.3	3115.7	3090.7	3059.5	3027.2	2948.1	2903.4	2851.4	2736.9	2633.9	2531.9
7.5°	3170.8	3167.7	3181.2	3181.2	3192.7	3162.5	3099.0	3062.6	2940.9	2773.3	2583.9
10°	2900.3	2909.6	2975.2	3060.5	3179.2	3261.4	3251.0	3241.6	3108.4	2879.5	2645.3
12.5°	2684.9	2664.0	2702.5	2775.4	2953.3	3152.1	3286.3	3287.4	3253.0	3049.1	2690.1
15°	2563.1	2577.7	2588.1	2622.4	2756.7	2986.6	3222.9	3292.6	3443.5	3168.8	2760.8
17.5°	2641.2	2592.2	2590.2	2598.5	2667.2	2839.9	3105.3	3225.0	3547.6	3322.8	2848.2
20°	2743.1	2742.1	2713.0	2702.5	2701.5	2855.5	3028.3	3190.6	3602.7	3522.6	2936.7
22.5°	2922.1	2922.1	2874.3	2851.4	2802.5	2928.4	3038.7	3149.0	3694.3	3659.9	2979.4
25°	3221.8	3172.9	3090.7	3034.5	3006.4	3051.2	3149.0	3247.8	3774.4	3805.6	3067.8
27.5°	3498.6	3421.6	3381.0	3284.3	3246.8	3220.8	3310.3	3410.2	3868.1	4032.5	3115.7
30°	3812.9	3799.4	3726.5	3601.7	3509.0	3461.2	3543.4	3642.2	4039.8	4264.6	3226.0
32.5°	4374.9	4252.1	4153.2	4000.2	3849.3	3747.4	3828.5	3894.1	4324.9	4507.0	3346.7
35°	4981.6	4942.0	4771.3	4495.6	4264.6	4173.0	4220.8	4269.8	4656.9	4877.5	3549.6
37.5°	5577.8	5523.7	5383.2	5151.2	4870.2	4683.9	4718.3	4775.5	5029.4	5377.0	3797.3
40°	6006.6	5940.0	5869.2	5834.9	5556.0	5301.0	5281.3	5295.8	5533.1	5845.3	4072.0
42.5°	6037.8	6120.0	6141.9	6280.3	6214.7	6005.5	5883.8	5886.9	6013.9	6308.4	4349.9
45°	5972.2	5896.3	6057.6	6435.3	6651.8	6749.6	6544.6	6518.6	6311.5	6576.9	4488.3
47.5°	5284.4	5305.2	5577.8	6175.2	6800.6	7237.7	7189.8	7103.4	6470.7	6567.5	4466.4
50°	4177.1	4303.1	4555.9	5300.0	6384.3	7314.7	7596.7	7396.9	6376.0	6309.4	4243.7
52.5°	2781.6	2833.7	3000.2	3960.7	5133.5	6538.4	7128.4	7174.2	6288.6	5971.2	3961.7
55°	1238.4	1234.2	1468.3	2068.8	3220.8	4975.3	5824.5	6103.4	5952.5	5626.8	3687.0
57.5°	524.5	542.2	637.9	893.9	1583.9	3002.3	3946.1	4190.7	4577.8	4620.5	2828.5
60°	354.9	356.9	383.0	447.5	662.9	1410.1	2069.8	2363.3	2640.1	2621.4	1500.6
62.5°	278.9	286.2	305.9	332.0	393.4	640.0	926.2	1089.6	1107.2	931.4	569.2
65°	238.3	239.3	259.1	281.0	308.0	372.6	446.4	454.8	460.0	443.3	418.3
67.5°	196.7	198.8	214.4	239.3	264.3	285.1	305.9	316.4	340.3	387.1	380.9
70°	156.1	159.2	172.7	193.6	216.5	228.9	255.0	264.3	286.2	322.6	337.2
72.5°	118.6	119.7	131.1	145.7	166.5	179.0	200.8	211.3	225.8	257.0	270.6
75°	85.3	88.5	96.8	104.1	107.2	115.5	136.3	147.8	168.6	182.1	183.2
77.5°	44.7	46.8	48.9	48.9	59.3	74.9	88.5	94.7	109.3	119.7	114.5
80°	17.7	18.7	23.9	32.3	41.6	54.1	63.5	66.6	79.1	85.3	88.5
82.5°	10.4	11.4	15.6	22.9	30.2	38.5	45.8	48.9	57.2	64.5	66.6
85°	5.2	6.2	9.4	14.6	19.8	23.9	22.9	21.9	21.9	20.8	21.9
87.5°	2.1	2.1	3.1	3.1	3.1	4.2	5.2	5.2	5.2	6.2	6.2
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°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2437.2	2395.6	2357.1	2286.3	2209.3	2187.4	2097.9	2065.7	2042.8	2015.7	2007.4
5°	2449.7	2394.5	2270.7	2128.1	2014.7	1869.0	1773.3	1670.2	1595.3	1576.6	1571.4
7.5°	2475.7	2381.0	2167.7	1952.2	1720.2	1522.5	1371.6	1290.4	1218.6	1214.4	1207.1
10°	2504.8	2340.4	2055.3	1717.1	1420.5	1237.3	1146.8	1111.4	1093.7	1089.6	1087.5
12.5°	2528.8	2332.1	1929.4	1488.1	1208.2	1097.9	1070.8	1067.7	1075.0	1077.1	1081.2
15°	2539.2	2298.8	1777.4	1283.1	1076.0	1035.4	1046.9	1059.4	1064.6	1078.1	1067.7
17.5°	2558.9	2256.1	1590.1	1120.8	1002.1	1009.4	1029.2	1043.8	1052.1	1061.5	1047.9
20°	2569.3	2217.6	1414.2	1024.0	976.1	989.7	1016.7	1028.2	1038.6	1042.7	1027.1
22.5°	2560.0	2138.5	1259.2	945.9	951.1	968.8	992.8	1005.3	999.0	982.4	973.0
25°	2535.0	2027.2	1097.9	896.0	915.8	947.0	965.7	956.4	944.9	935.5	932.4
27.5°	2534.0	1890.8	981.3	850.2	885.6	928.3	922.0	913.7	918.9	911.6	903.3
30°	2539.2	1758.7	885.6	824.2	863.7	884.5	891.8	883.5	889.7	876.2	880.4
32.5°	2512.1	1629.6	823.1	794.0	837.7	836.7	860.6	866.9	852.3	824.2	828.4
35°	2523.6	1525.6	770.1	780.5	808.6	808.6	827.3	820.0	781.5	764.9	769.0
37.5°	2602.6	1423.6	744.1	761.8	780.5	788.8	782.6	751.3	742.0	742.0	744.1
40°	2677.6	1336.2	728.4	757.6	754.5	759.7	713.9	717.0	717.0	718.0	712.8
42.5°	2744.2	1276.9	716.0	732.6	737.8	710.8	682.7	679.5	686.8	685.8	681.6
45°	2768.1	1228.0	698.3	704.5	708.7	663.9	650.4	644.2	652.5	655.6	659.8
47.5°	2676.5	1187.4	678.5	666.0	657.7	628.5	610.9	599.4	609.8	627.5	631.7
50°	2558.9	1134.3	647.3	623.3	605.7	593.2	580.7	569.2	576.5	589.0	585.9
52.5°	2385.2	1051.0	607.7	582.8	552.6	555.7	544.3	538.0	542.2	542.2	539.1
55°	2137.5	863.7	541.1	523.4	498.5	506.8	508.9	500.5	492.2	499.5	493.3
57.5°	1459.0	609.8	482.9	482.9	457.9	469.3	468.3	448.5	428.7	430.8	426.7
60°	844.0	486.0	445.4	441.2	415.2	424.6	426.7	413.1	383.0	385.0	380.9
62.5°	479.7	415.2	389.2	383.0	377.8	386.1	386.1	368.4	342.4	344.5	340.3
65°	407.9	385.0	347.6	346.5	344.5	346.5	338.2	319.5	296.6	287.2	288.3
67.5°	370.5	355.9	319.5	310.1	303.9	302.8	287.2	269.5	259.1	250.8	249.8
70°	324.7	313.2	286.2	273.7	267.4	252.9	237.3	225.8	211.3	207.1	211.3
72.5°	257.0	256.0	245.6	232.1	218.5	207.1	193.6	177.9	164.4	161.3	154.0
75°	177.9	180.0	182.1	180.0	168.6	154.0	138.4	125.9	109.3	99.9	97.8
77.5°	116.6	119.7	122.8	118.6	111.3	97.8	87.4	71.8	59.3	52.0	51.0
80°	85.3	89.5	91.6	88.5	80.1	69.7	58.3	45.8	36.4	30.2	30.2
82.5°	65.6	69.7	71.8	66.6	58.3	50.0	41.6	32.3	25.0	19.8	18.7
85°	22.9	21.9	26.0	27.1	32.3	30.2	25.0	18.7	14.6	10.4	9.4
87.5°	6.2	6.2	7.3	7.3	6.2	5.2	5.2	5.2	4.2	3.1	3.1
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)