

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: P528104

Luminaire Tested: **GALN-SA3A-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9177 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 93
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



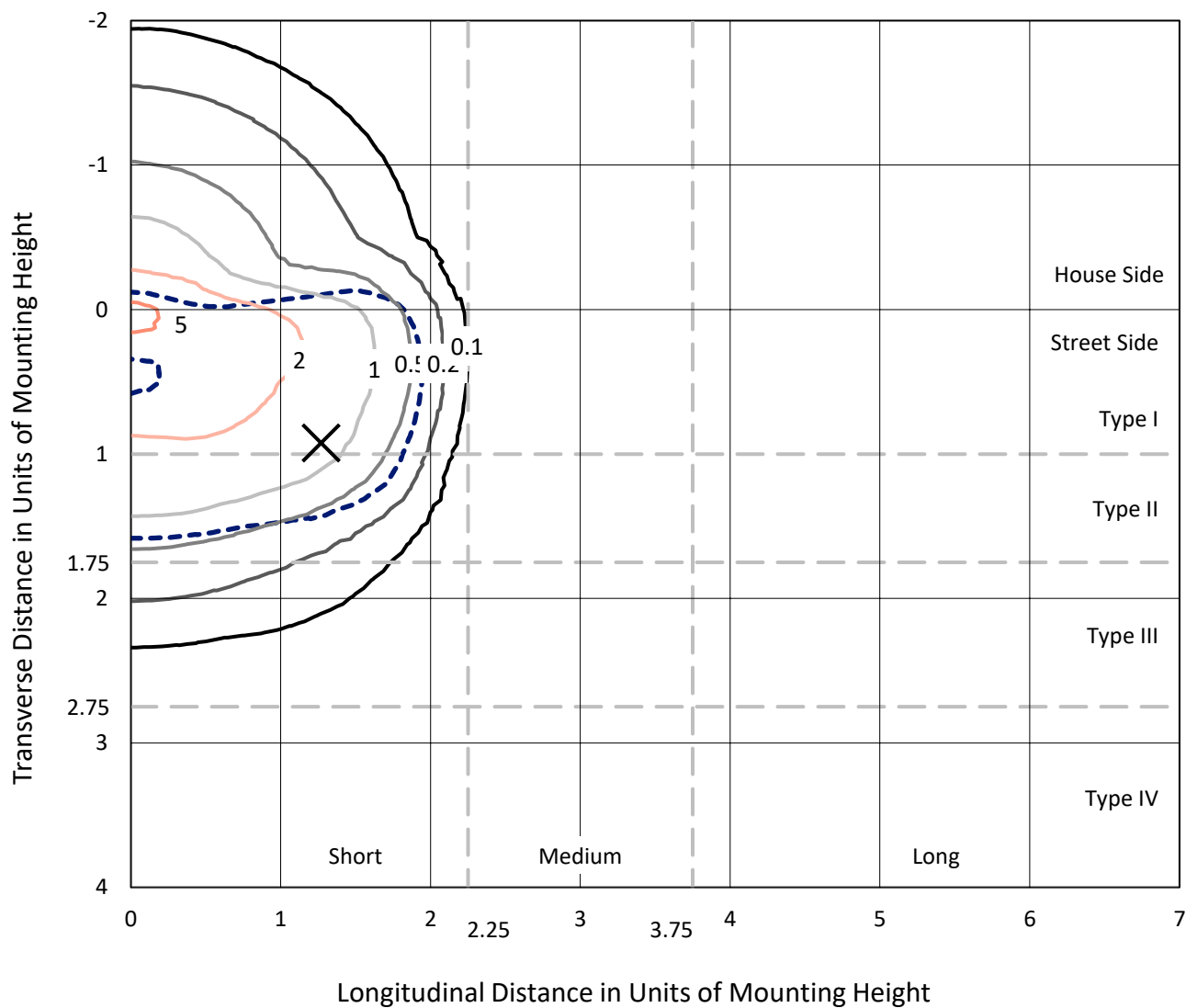
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

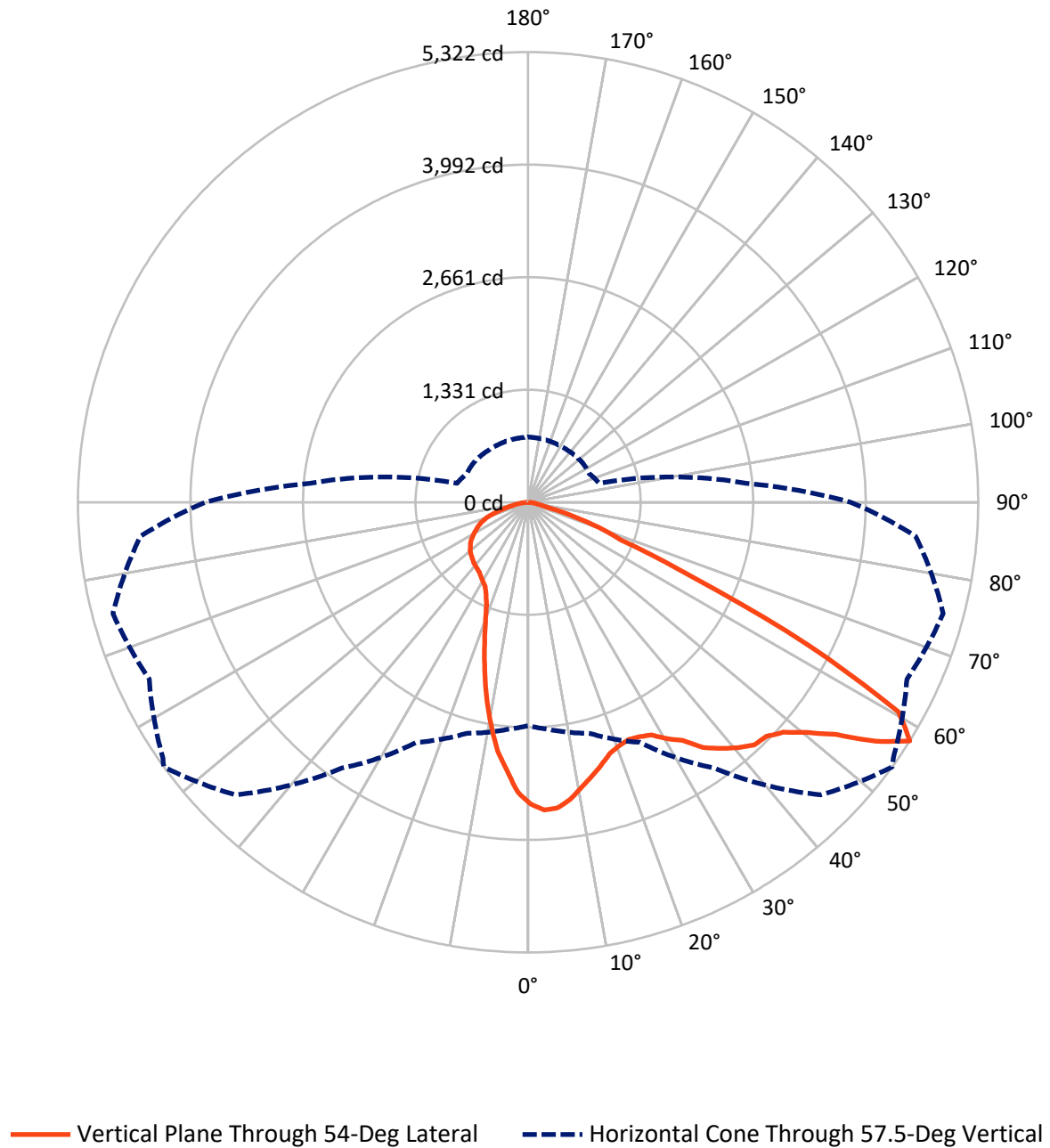
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2538.9	0.0	2538.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	6638.1	0.0	6638.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	9177.0	0.0	9177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	3.4
10°-20°	712.2	7.8
20°-30°	1000.7	10.9
30°-40°	1399.0	15.2
40°-50°	1894.0	20.6
50°-60°	2307.0	25.1
60°-70°	1201.6	13.1
70°-80°	307.9	3.4
80°-90°	47.0	0.5
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°	9177.0	100.0
0°-180°	9177.0	100.0

Coefficient of Utilization



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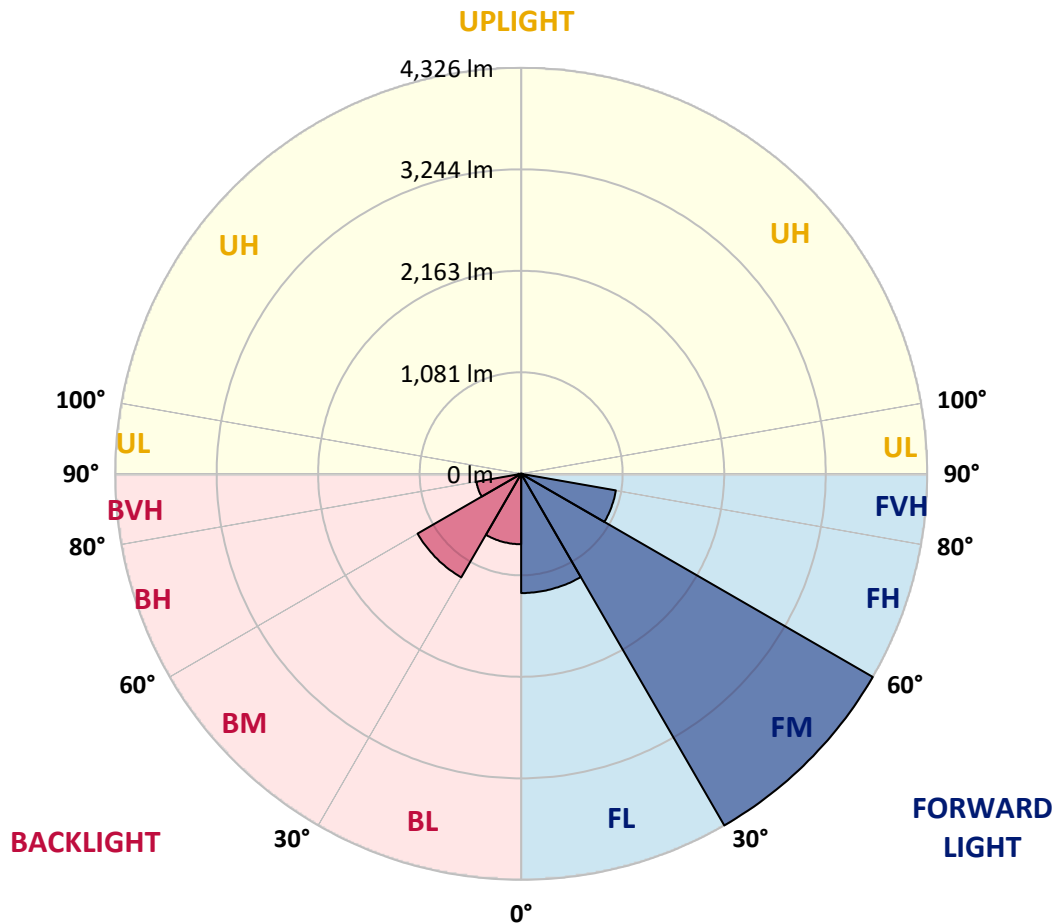
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.2	13.8			
FM	(30°-60°)	4325.8	47.1			
FH	(60°-80°)	1024.4	11.2			G1/1800
FVH	(80°-90°)	17.7	0.2			G1/100
BL	(0°-30°)	750.4	8.2	B2/1000		
BM	(30°-60°)	1274.2	13.9	B2/2500		
BH	(60°-80°)	485.1	5.3	B1/500		G1/500
BVH	(80°-90°)	29.2	0.3			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°	54°	55°	65°	75°	85°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3668.4	3654.3	3656.6	3675.5	3651.9	3642.5	3642.5	3596.5	3600.0	3568.2	3559.9
5°	3583.5	3550.5	3572.9	3601.2	3605.9	3615.4	3630.7	3618.9	3585.9	3551.7	3496.2
7.5°	3361.8	3391.2	3399.5	3419.5	3462.0	3500.9	3549.3	3516.3	3515.1	3480.9	3447.9
10°	3167.1	3149.4	3194.3	3223.7	3294.5	3359.4	3433.7	3430.2	3447.9	3408.9	3352.3
12.5°	2973.7	2959.5	2980.8	3048.0	3147.1	3241.4	3329.9	3296.9	3391.2	3384.2	3262.7
15°	2768.4	2779.0	2809.7	2872.2	3002.0	3115.2	3227.3	3228.5	3312.2	3340.5	3177.7
17.5°	2624.5	2612.7	2651.7	2744.8	2860.4	2996.1	3123.5	3149.4	3278.0	3294.5	3151.8
20°	2517.2	2533.7	2584.4	2631.6	2764.9	2928.9	3072.8	3082.2	3270.9	3315.7	3110.5
22.5°	2491.2	2481.8	2498.3	2575.0	2684.7	2862.8	3045.6	3081.0	3269.7	3308.7	3032.7
25°	2464.1	2494.8	2493.6	2570.3	2650.5	2809.7	3068.0	3107.0	3332.3	3345.2	3043.3
27.5°	2525.4	2521.9	2554.9	2560.8	2659.9	2823.9	3115.2	3144.7	3436.1	3425.4	3051.5
30°	2586.8	2569.1	2589.1	2658.7	2704.7	2905.3	3245.0	3242.6	3570.5	3563.5	3077.5
32.5°	2662.3	2654.0	2667.0	2728.3	2806.2	3013.8	3354.7	3424.3	3707.4	3752.2	3167.1
35°	2676.4	2710.6	2741.3	2823.9	2934.7	3189.5	3561.1	3618.9	3865.4	4005.8	3338.2
37.5°	2766.1	2779.0	2851.0	2997.3	3098.7	3424.3	3692.0	3728.6	4009.3	4168.6	3518.6
40°	2861.6	2877.0	2985.5	3138.8	3278.0	3577.6	3814.7	3826.5	4055.3	4293.6	3636.6
42.5°	2991.4	3005.5	3112.9	3305.1	3491.5	3708.5	3923.2	3936.2	4051.8	4437.5	3824.1
45°	3125.8	3160.0	3286.3	3504.5	3672.0	3861.9	3948.0	4001.1	4084.8	4566.1	3976.3
47.5°	3314.6	3346.4	3450.2	3663.7	3859.5	3996.4	4062.4	4114.3	4163.9	4678.1	4074.2
50°	3515.1	3521.0	3647.2	3840.7	3984.6	4148.5	4275.9	4293.6	4267.7	4807.9	4240.5
52.5°	3662.5	3681.4	3779.3	3968.0	4182.7	4384.4	4559.0	4577.9	4527.2	4856.3	4297.1
55°	3418.4	3407.8	3567.0	3818.2	4316.0	4735.9	4989.5	5003.7	4715.9	5006.1	4482.3
57.5°	2642.2	2692.9	2828.6	3131.7	3834.8	4891.6	5322.2	5271.5	4942.4	5081.6	4600.3
60°	1920.3	1908.5	1999.4	2202.2	2889.9	4215.8	5032.0	5083.9	4757.2	4580.2	3793.5
62.5°	1564.1	1547.6	1554.7	1561.7	1864.9	2797.9	3725.1	3723.9	3663.7	3292.2	2558.5
65°	1250.3	1289.3	1292.8	1345.9	1384.8	1671.4	2158.6	2274.2	1980.5	1624.3	1178.4
67.5°	942.5	928.3	975.5	1164.2	1237.4	1206.7	1178.4	1191.4	846.9	611.0	575.6
70°	555.6	549.7	606.3	811.5	1019.1	959.0	888.2	889.4	581.5	427.0	475.4
72.5°	304.3	303.1	314.9	411.7	579.2	601.6	533.2	549.7	346.8	345.6	371.6
75°	169.9	166.3	162.8	181.7	208.8	220.6	225.3	227.7	238.3	266.6	277.2
77.5°	62.5	60.2	60.2	69.6	88.5	110.9	140.4	142.7	168.7	193.4	204.1
80°	21.2	23.6	31.8	43.6	59.0	79.0	95.5	97.9	119.1	135.6	139.2
82.5°	13.0	14.2	21.2	30.7	42.5	55.4	70.8	72.0	88.5	99.1	103.8
85°	5.9	7.1	11.8	18.9	27.1	36.6	37.7	37.7	36.6	37.7	35.4
87.5°	0.0	0.0	2.4	2.4	2.4	3.5	4.7	3.5	5.9	7.1	7.1
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°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3535.1	3522.2	3482.1	3446.7	3436.1	3388.9	3319.3	3327.5	3276.8	3300.4	3275.6
5°	3486.8	3443.1	3340.5	3296.9	3182.5	3130.6	3095.2	3006.7	2965.4	2957.2	2921.8
7.5°	3362.9	3335.8	3207.2	3089.3	2967.8	2864.0	2730.7	2639.9	2575.0	2557.3	2505.4
10°	3265.0	3204.9	3026.8	2847.5	2674.1	2493.6	2320.2	2184.5	2118.5	2041.8	2015.9
12.5°	3168.3	3077.5	2836.8	2606.8	2382.7	2155.1	1945.1	1780.0	1636.1	1601.8	1590.0
15°	3108.1	2950.1	2667.0	2389.8	2071.3	1774.1	1564.1	1455.6	1367.1	1330.5	1356.5
17.5°	3029.1	2845.1	2504.2	2135.0	1784.7	1511.0	1335.3	1268.0	1236.2	1239.7	1229.1
20°	2930.0	2746.0	2290.7	1903.8	1528.7	1310.5	1210.2	1185.5	1190.2	1198.4	1194.9
22.5°	2859.3	2625.7	2136.2	1667.9	1321.1	1199.6	1158.3	1140.6	1156.0	1163.0	1157.2
25°	2805.0	2523.1	1948.6	1459.1	1200.8	1137.1	1118.2	1117.0	1140.6	1150.1	1144.2
27.5°	2755.5	2427.5	1762.3	1299.9	1120.6	1088.7	1082.8	1097.0	1112.3	1121.8	1130.0
30°	2726.0	2354.4	1587.7	1166.6	1080.5	1065.1	1054.5	1067.5	1075.8	1085.2	1080.5
32.5°	2754.3	2302.5	1419.0	1091.1	1047.5	1032.1	1046.3	1038.0	1052.2	1060.4	1047.5
35°	2842.7	2256.5	1298.7	1051.0	1009.7	1015.6	1018.0	1014.4	1020.3	1013.2	1028.6
37.5°	2930.0	2240.0	1187.8	1016.8	992.0	992.0	989.7	982.6	994.4	992.0	999.1
40°	3040.9	2250.6	1093.5	980.2	975.5	973.1	963.7	962.5	957.8	959.0	961.3
42.5°	3137.6	2274.2	1039.2	956.6	960.2	964.9	947.2	933.0	938.9	927.1	927.1
45°	3240.3	2295.4	990.8	940.1	936.6	935.4	921.2	913.0	908.3	909.4	920.1
47.5°	3401.9	2326.1	954.3	917.7	920.1	902.4	898.8	888.2	892.9	900.0	901.2
50°	3516.3	2391.0	926.0	891.7	900.0	888.2	867.0	862.3	862.3	874.1	871.7
52.5°	3596.5	2481.8	898.8	863.4	867.0	857.5	850.5	839.8	832.8	849.3	857.5
55°	3841.8	2632.8	891.7	839.8	838.7	829.2	816.3	805.6	802.1	804.5	821.0
57.5°	3818.2	2585.6	869.3	798.6	796.2	783.2	770.3	766.7	765.5	767.9	772.6
60°	3099.9	1909.7	776.2	751.4	747.8	745.5	732.5	718.4	711.3	718.4	712.5
62.5°	2051.3	1278.6	684.1	694.8	697.1	691.2	670.0	655.8	658.2	666.5	653.5
65°	1007.3	751.4	620.4	648.8	651.1	634.6	614.6	598.0	589.8	596.9	591.0
67.5°	575.6	574.4	568.5	598.0	596.9	580.3	548.5	534.3	520.2	522.5	519.0
70°	488.3	497.8	509.6	527.3	526.1	507.2	469.5	458.8	438.8	436.4	430.5
72.5°	384.5	401.1	427.0	440.0	429.4	405.8	381.0	363.3	345.6	335.0	338.5
75°	285.5	309.0	323.2	331.5	314.9	302.0	281.9	260.7	239.5	230.0	226.5
77.5°	207.6	214.7	227.7	233.6	222.9	210.0	198.2	176.9	156.9	143.9	140.4
80°	145.1	149.8	159.2	159.2	159.2	153.3	138.0	116.8	103.8	92.0	89.6
82.5°	101.4	106.2	115.6	110.9	109.7	102.6	93.2	76.7	62.5	54.3	51.9
85°	35.4	38.9	47.2	56.6	60.2	59.0	53.1	42.5	33.0	27.1	24.8
87.5°	8.3	8.3	9.4	8.3	8.3	9.4	8.3	8.3	8.3	5.9	4.7
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)