

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: P528102

Luminaire Tested: **GALN-SA3A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9195 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

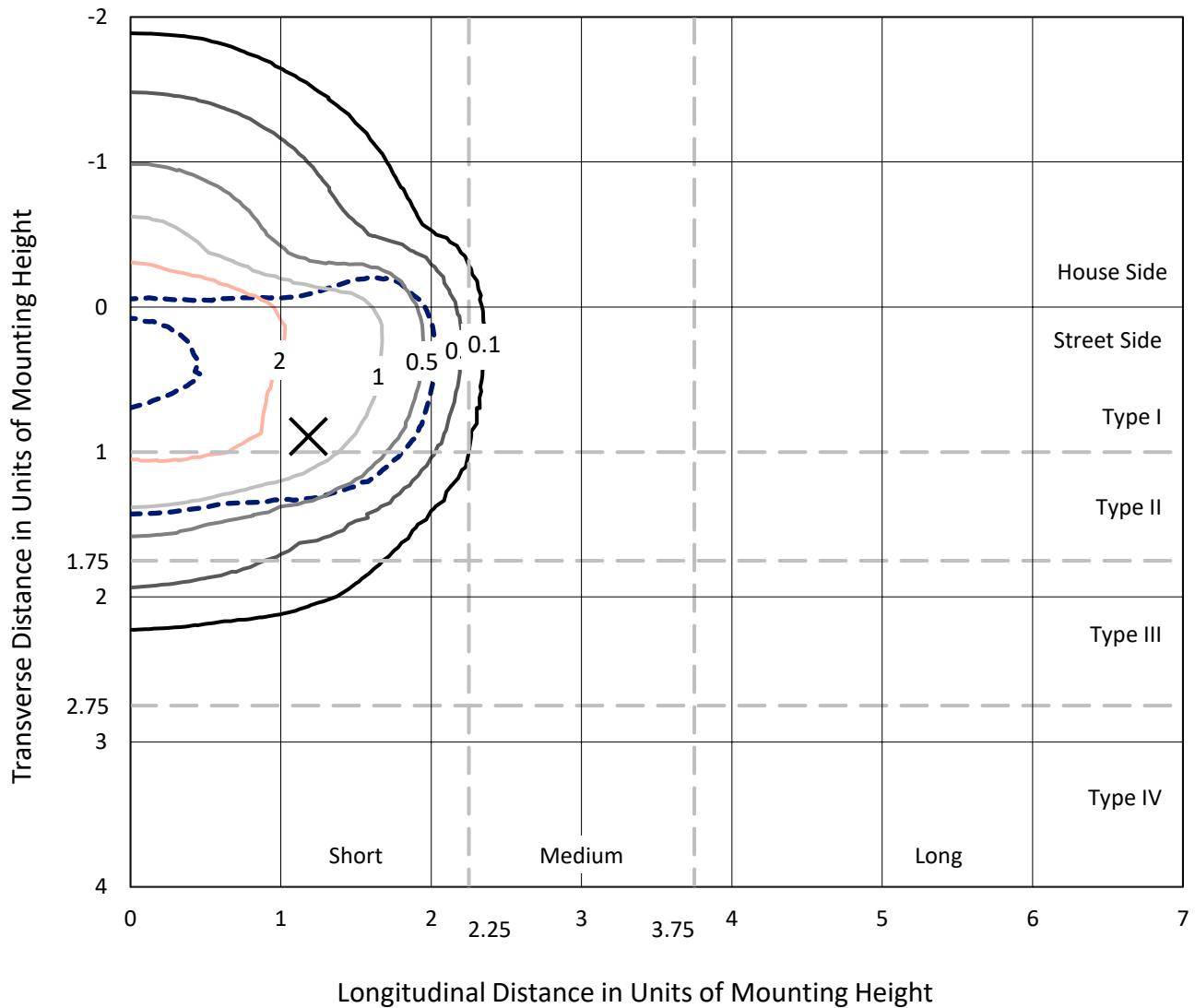


REPORT NUMBER: P528102

CATALOG NUMBER: GALN-SA3A-830-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

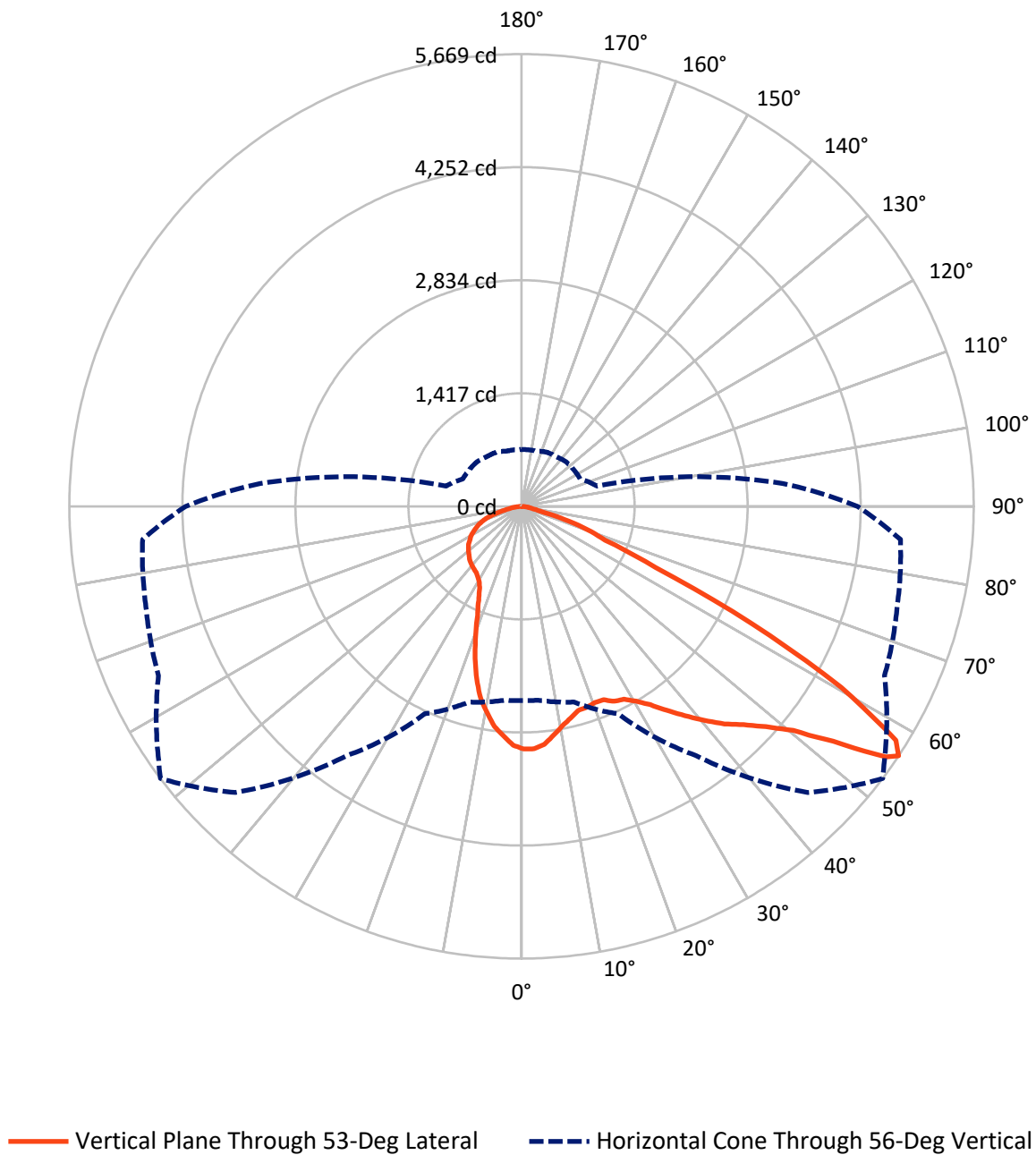


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P528102

CATALOG NUMBER: GALN-SA3A-830-U-SL2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528102

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2683.3	0.0	2683.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	6511.7	0.0	6511.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	9195.0	0.0	9195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	2.9
10°-20°	672.6	7.3
20°-30°	991.8	10.8
30°-40°	1417.1	15.4
40°-50°	1950.5	21.2
50°-60°	2305.0	25.1
60°-70°	1228.4	13.4
70°-80°	311.6	3.4
80°-90°	48.6	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°	9195.0	100.0
0°-180°	9195.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528102

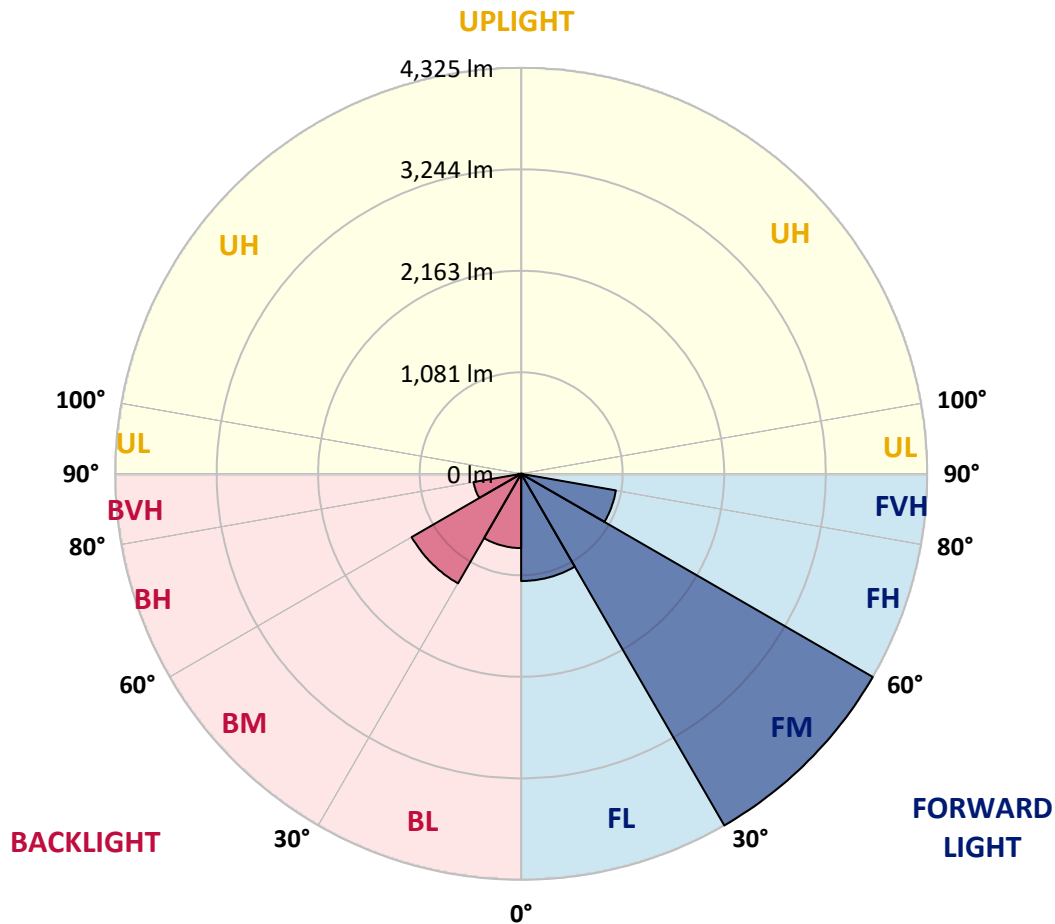
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1142.3	12.4			
FM	(30°-60°)	4325.2	47.0			
FH	(60°-80°)	1024.7	11.1			G1/1800
FVH	(80°-90°)	19.5	0.2			G1/100
BL	(0°-30°)	791.4	8.6	B2/1000		
BM	(30°-60°)	1347.5	14.7	B2/2500		
BH	(60°-80°)	515.4	5.6	B2/1000		G2/1000
BVH	(80°-90°)	29.1	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-G2

Type II Short



REPORT NUMBER: P528102

CATALOG NUMBER: GALN-SA3A-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1
2.5°	3004.3	2978.4	2993.7	2987.8	3036.2	3050.3	3043.2	3049.1	3076.3	3063.3	3036.2
5°	2807.3	2843.9	2851.0	2868.7	2897.0	2952.4	2996.1	3007.9	3020.8	3081.0	3075.1
7.5°	2628.0	2652.8	2639.8	2691.7	2753.1	2842.7	2895.8	2905.2	3024.4	3057.4	3082.2
10°	2514.8	2490.0	2549.0	2563.2	2632.8	2735.4	2799.1	2838.0	2946.5	3077.5	3092.8
12.5°	2409.8	2401.6	2437.0	2477.1	2554.9	2661.1	2725.9	2741.3	2908.8	3046.8	3118.7
15°	2332.0	2322.5	2357.9	2387.4	2478.2	2572.6	2655.2	2698.8	2867.5	3029.1	3096.3
17.5°	2270.6	2269.5	2289.5	2342.6	2435.8	2514.8	2648.1	2650.5	2846.3	3056.2	3115.2
20°	2267.1	2265.9	2269.5	2328.4	2413.4	2510.1	2625.7	2646.9	2846.3	3037.4	3116.4
22.5°	2296.6	2277.7	2298.9	2336.7	2398.0	2518.3	2633.9	2681.1	2914.7	3130.5	3169.5
25°	2343.8	2348.5	2360.3	2373.3	2408.6	2537.2	2707.1	2746.0	2994.9	3210.7	3242.6
27.5°	2429.9	2427.5	2432.2	2439.3	2470.0	2554.9	2736.6	2836.8	3162.4	3353.5	3321.6
30°	2556.1	2547.8	2566.7	2591.5	2563.2	2611.5	2834.5	2910.0	3318.1	3497.4	3410.1
32.5°	2670.5	2701.2	2736.6	2747.2	2713.0	2722.4	2964.2	3040.9	3447.8	3674.3	3518.6
35°	2813.2	2838.0	2885.2	2918.2	2912.3	2884.0	3141.2	3242.6	3635.4	3804.1	3633.0
37.5°	2952.4	2981.9	3059.8	3157.7	3103.4	3090.4	3329.9	3413.6	3693.2	3873.7	3716.8
40°	3176.5	3175.4	3309.8	3360.5	3408.9	3386.5	3525.7	3554.0	3723.9	3858.3	3719.1
42.5°	3439.6	3423.1	3559.9	3638.9	3701.4	3703.8	3729.7	3720.3	3738.0	3780.5	3694.4
45°	3689.6	3725.0	3863.0	4004.6	4067.1	4074.2	3902.0	3884.3	3762.8	3758.1	3647.2
47.5°	3995.1	4003.4	4116.6	4303.0	4448.1	4398.6	4124.9	4086.0	3871.3	3907.9	3726.2
50°	4012.8	4074.2	4175.6	4395.0	4840.9	4827.9	4413.9	4340.8	4045.9	4120.2	3946.8
52.5°	3642.5	3628.3	3748.6	4107.2	4811.4	5254.9	4892.8	4718.2	4421.0	4364.3	4304.2
55°	2775.5	2808.5	2914.7	3276.8	4178.0	5260.8	5545.1	5402.4	4822.0	4725.3	4655.7
56°	2434.6	2439.3	2539.6	2869.9	3812.3	5073.3	5668.9	5553.3	5021.4	4873.9	4767.8
57.5°	2018.2	1991.1	2043.0	2223.5	3217.8	4676.9	5533.3	5646.5	5254.9	5034.3	4886.9
60°	1588.9	1583.0	1561.7	1594.8	2033.6	3523.3	4606.2	4860.9	5231.3	4883.4	4680.5
62.5°	1297.5	1268.0	1310.5	1357.7	1413.1	2185.7	3236.7	3386.5	4153.2	3898.4	3516.2
65°	1006.2	992.0	1045.1	1198.4	1231.5	1388.3	1843.6	1959.2	2452.3	2408.6	2120.8
67.5°	692.4	694.8	740.8	974.3	1141.8	1127.7	1128.8	1189.0	1279.8	950.7	828.0
70°	438.8	437.6	462.4	627.5	918.9	928.3	881.1	863.4	818.6	495.4	524.9
72.5°	281.9	273.7	286.6	346.8	475.4	549.7	566.2	576.8	474.2	389.3	422.3
75°	159.2	151.0	146.3	161.6	187.5	217.0	238.3	245.3	274.8	294.9	312.6
77.5°	48.4	43.6	53.1	70.8	93.2	125.0	152.2	156.9	185.2	208.8	226.5
80°	21.2	23.6	33.0	47.2	66.1	88.5	107.3	114.4	133.3	151.0	155.7
82.5°	13.0	14.2	22.4	31.8	46.0	62.5	76.7	79.0	97.9	112.1	115.6
85°	4.7	5.9	11.8	18.9	29.5	40.1	40.1	43.6	40.1	40.1	43.6
87.5°	0.0	0.0	1.2	2.4	2.4	3.5	4.7	4.7	5.9	7.1	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P528102

CATALOG NUMBER: GALN-SA3A-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1	3042.1
2.5°	3050.3	3044.4	3035.0	3000.8	2997.2	2986.6	2927.7	2918.2	2927.7	2899.3	2901.7
5°	3044.4	3062.1	2991.3	2957.1	2893.4	2847.4	2794.4	2767.2	2718.9	2688.2	2722.4
7.5°	3070.4	3063.3	2974.8	2900.5	2805.0	2688.2	2595.0	2541.9	2457.0	2433.4	2451.1
10°	3060.9	3023.2	2919.4	2821.5	2641.0	2538.4	2387.4	2241.2	2160.9	2119.7	2113.8
12.5°	3048.0	3037.4	2864.0	2695.3	2505.4	2289.5	2077.2	1939.2	1808.3	1751.6	1759.9
15°	3063.3	2973.7	2760.2	2546.7	2294.2	2011.1	1782.3	1604.2	1513.4	1476.8	1476.8
17.5°	3056.2	2943.0	2710.6	2380.3	2060.7	1725.7	1474.4	1367.1	1329.4	1329.4	1340.0
20°	3059.8	2963.0	2610.4	2214.0	1784.7	1453.2	1270.4	1231.5	1248.0	1253.9	1259.8
22.5°	3079.8	2897.0	2512.4	2031.2	1528.7	1243.2	1153.6	1154.8	1184.3	1216.1	1210.2
25°	3104.6	2871.0	2393.3	1849.5	1332.9	1140.6	1112.3	1108.8	1131.2	1147.7	1150.1
27.5°	3083.4	2826.2	2271.8	1623.1	1172.5	1072.2	1066.3	1068.7	1075.8	1108.8	1098.2
30°	3152.9	2839.2	2119.7	1433.2	1084.0	1049.8	1042.7	1039.2	1049.8	1059.2	1051.0
32.5°	3239.1	2793.2	2006.4	1250.3	1040.4	1033.3	1019.1	1014.4	1020.3	1010.9	1015.6
35°	3276.8	2784.9	1859.0	1119.4	1006.2	1000.3	992.0	990.8	992.0	983.7	976.7
37.5°	3298.0	2823.9	1690.3	1059.2	984.9	990.8	972.0	969.6	948.4	953.1	956.6
40°	3334.6	2763.7	1553.5	1001.4	972.0	960.2	943.6	940.1	925.9	917.7	925.9
42.5°	3281.5	2746.0	1419.0	976.7	953.1	940.1	928.3	908.3	903.5	896.5	891.7
45°	3239.1	2644.6	1298.7	946.0	930.7	923.6	901.2	879.9	862.3	869.3	858.7
47.5°	3270.9	2609.2	1179.6	920.1	900.0	891.7	869.3	852.8	835.1	826.9	824.5
50°	3398.3	2675.2	1079.3	901.2	874.0	869.3	839.8	821.0	804.5	798.6	800.9
52.5°	3702.6	2855.7	1010.9	862.3	849.3	828.0	811.5	787.9	777.3	758.5	770.2
55°	4088.3	3149.4	993.2	825.7	818.6	799.7	777.3	759.6	739.6	724.2	720.7
56°	4212.2	3289.8	979.0	811.5	799.7	789.1	759.6	749.0	717.2	713.6	711.3
57.5°	4312.4	3413.6	981.4	784.4	772.6	763.2	745.5	719.5	698.3	685.3	691.2
60°	4086.0	3195.4	936.6	743.1	740.8	723.1	698.3	686.5	660.5	645.2	641.7
62.5°	3037.4	2169.2	759.6	690.0	688.9	670.0	641.7	628.7	624.0	602.8	602.8
65°	1749.3	1360.0	657.0	646.4	637.0	618.1	589.8	579.2	567.4	560.3	554.4
67.5°	746.7	705.4	596.9	595.7	585.1	561.5	533.2	516.6	501.3	487.2	494.2
70°	541.4	549.7	539.1	533.2	520.2	490.7	465.9	445.9	422.3	412.8	419.9
72.5°	429.4	447.1	462.4	463.6	448.2	414.0	386.9	359.8	333.8	320.8	326.7
75°	325.6	337.4	352.7	356.2	333.8	310.2	284.3	256.0	235.9	220.6	222.9
77.5°	234.7	232.4	246.5	244.2	233.6	217.0	193.4	167.5	145.1	130.9	132.1
80°	160.4	164.0	172.2	171.0	158.1	147.4	129.8	108.5	92.0	80.2	77.9
82.5°	112.1	118.0	125.0	119.1	108.5	97.9	84.9	69.6	56.6	47.2	44.8
85°	40.1	46.0	53.1	56.6	60.2	57.8	48.4	38.9	28.3	23.6	22.4
87.5°	8.3	9.4	10.6	10.6	10.6	9.4	8.3	8.3	7.1	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)