

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: P531856

Luminaire Tested: **GALN-SA7A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22243 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 215
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

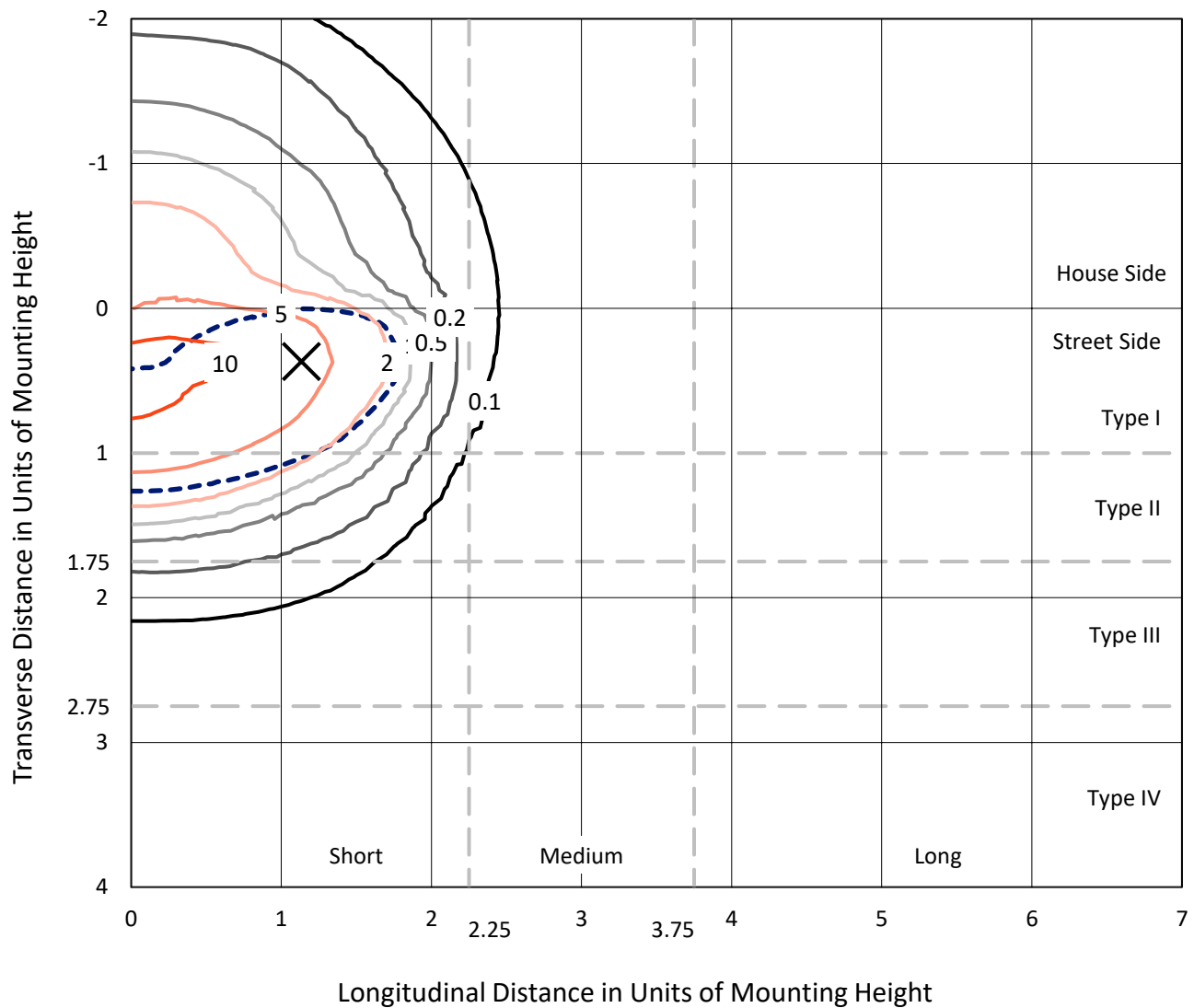


REPORT NUMBER: P531856

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

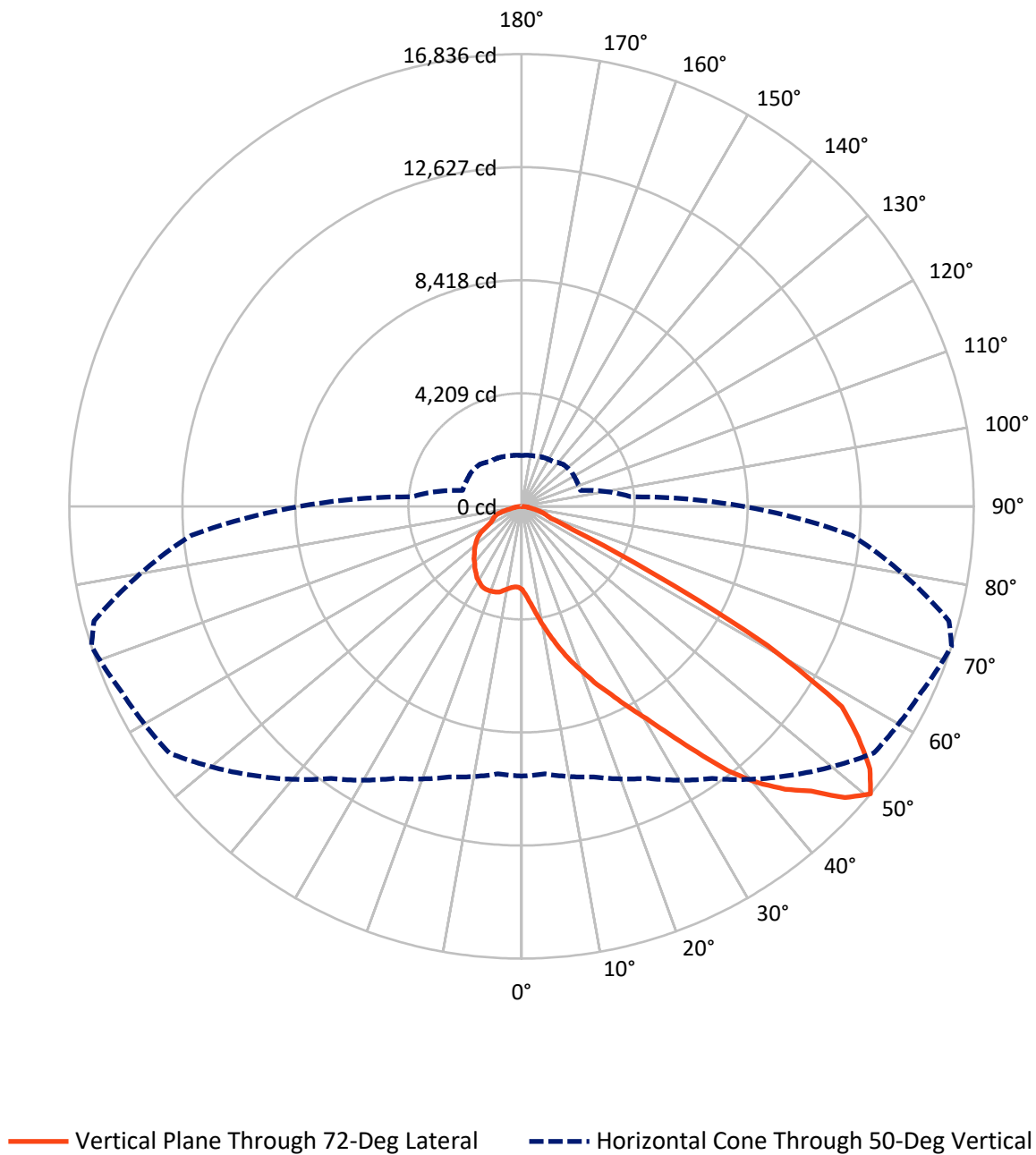


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P531856

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531856

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5096.0	0.0	5096.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17147.0	0.0	17147.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	22243.0	0.0	22243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	1.6
10°-20°	1361.6	6.1
20°-30°	2640.0	11.9
30°-40°	4373.5	19.7
40°-50°	6119.5	27.5
50°-60°	5162.6	23.2
60°-70°	1573.6	7.1
70°-80°	552.0	2.5
80°-90°	96.0	0.4
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°	22243.0	100.0
0°-180°	22243.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531856

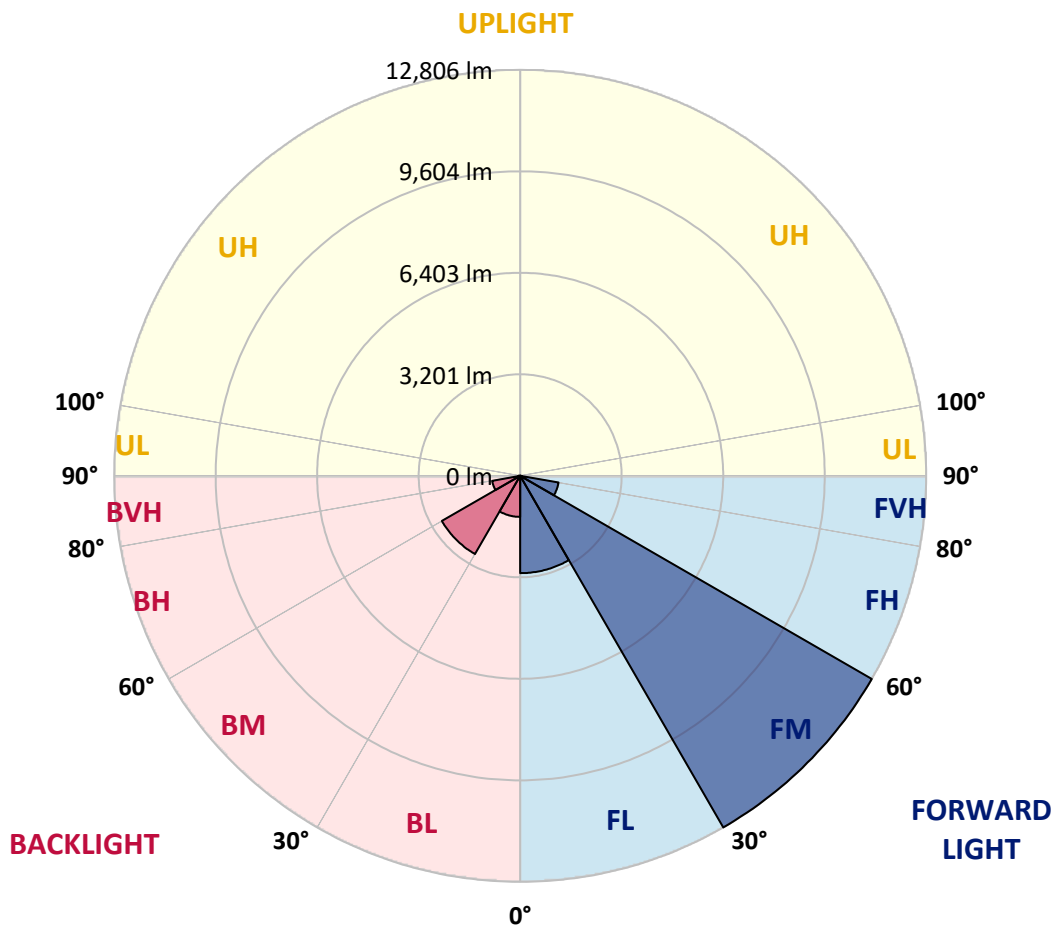
CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.3	13.8			
FM	(30°-60°)	12805.9	57.6			
FH	(60°-80°)	1227.8	5.5			G1/1800
FVH	(80°-90°)	43.0	0.2			G1/100
BL	(0°-30°)	1295.4	5.8	B3/2500		
BM	(30°-60°)	2849.8	12.8	B3/5000		
BH	(60°-80°)	897.8	4.0	B2/1000		G2/1000
BVH	(80°-90°)	53.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P531856

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	3982.7	3957.9	3883.6	3858.8	3770.7	3611.1	3556.1	3393.7	3324.9	3261.6	3187.2
5°	5036.8	4921.2	4913.0	4772.6	4568.9	4450.6	4098.3	3861.6	3644.1	3534.0	3330.4
7.5°	5708.4	5711.2	5711.2	5595.6	5433.2	5133.2	4816.6	4390.0	4062.5	3900.1	3553.3
10°	6347.0	6291.9	6261.6	6250.6	6140.5	5848.8	5510.2	4981.8	4533.2	4343.2	3721.2
12.5°	6798.4	6751.6	6820.4	6784.6	6704.8	6514.9	6195.6	5592.8	5031.3	4775.4	3990.9
15°	7013.0	7046.1	7101.1	7200.2	7164.4	7092.9	6740.6	6220.4	5568.0	5279.0	4230.4
17.5°	7343.3	7252.5	7318.5	7442.4	7541.5	7508.5	7307.5	6674.5	6099.3	5744.2	4552.4
20°	7574.5	7522.2	7555.3	7698.4	7772.7	7959.9	7855.3	7269.0	6608.4	6234.1	4932.2
22.5°	8235.1	8158.0	8050.7	8072.7	8100.2	8232.3	8257.1	7921.3	7200.2	6803.9	5292.8
25°	9049.8	8978.2	8851.6	8722.3	8642.4	8617.7	8703.0	8433.3	7767.2	7357.1	5680.9
27.5°	9947.1	9826.0	9746.1	9479.2	9264.5	9231.4	9190.2	9044.3	8438.8	7995.6	6118.5
30°	10819.6	10723.2	10615.9	10189.3	9966.3	9930.5	9726.9	9768.2	9168.1	8675.5	6613.9
32.5°	11480.1	11488.4	11243.4	10921.4	10712.2	10522.3	10448.0	10566.3	10103.9	9707.6	7167.2
35°	12014.1	12038.9	11804.9	11513.2	11287.5	11419.6	11386.6	11441.6	11221.4	10737.0	7811.2
37.5°	12534.3	12410.4	12160.0	12019.6	11901.2	12118.7	12399.4	12446.2	12487.5	11917.8	8559.9
40°	12619.6	12630.6	12484.7	12583.8	12435.2	12762.7	13415.0	13354.5	13522.4	13024.2	9371.8
42.5°	12498.5	12523.3	12581.1	12721.5	13079.3	13472.8	14441.7	14194.0	14397.6	13954.5	10161.7
45°	12300.3	12198.5	12270.1	12804.0	13423.3	14298.6	15380.2	15187.6	15121.5	14749.9	11103.1
47.5°	11353.5	11458.1	11681.1	12338.9	13269.2	14441.7	16046.3	16002.3	16200.4	15939.0	11959.0
50°	10040.6	9999.4	10428.7	11169.1	12369.1	14160.9	16010.5	16409.6	16836.2	16472.9	12341.6
52.5°	7519.5	7739.7	8108.5	9027.8	10739.7	12630.6	15228.9	15894.9	16241.7	16164.7	12033.4
55°	4753.3	4819.4	5042.3	6135.0	7676.4	10137.0	13054.5	14598.6	15217.8	15506.8	11749.9
57.5°	2309.2	2185.4	2457.9	3335.9	4434.1	6817.6	10068.2	12715.9	14061.9	14584.8	11133.3
60°	1205.5	1252.3	1359.7	1673.4	2292.7	3539.5	6275.4	8474.5	10530.6	11334.3	8438.8
62.5°	999.1	1015.6	1087.2	1244.1	1524.8	2036.8	3203.8	4131.3	5369.9	6093.7	4800.1
65°	847.7	856.0	933.1	1037.6	1216.5	1434.0	1648.7	1725.7	2089.0	2144.1	1706.5
67.5°	707.4	715.6	798.2	897.3	1012.9	1070.7	1125.7	1120.2	1161.5	1145.0	1142.2
70°	545.0	553.2	638.5	743.1	800.9	767.9	938.6	977.1	993.6	1007.4	1029.4
72.5°	393.6	410.1	476.2	550.5	520.2	597.3	773.4	831.2	853.2	861.5	889.0
75°	286.2	291.8	308.3	286.2	330.3	415.6	545.0	616.5	644.1	652.3	693.6
77.5°	126.6	129.4	132.1	165.1	211.9	258.7	324.8	382.6	421.1	432.1	443.1
80°	66.1	68.8	85.3	112.8	151.4	189.9	236.7	269.7	294.5	297.3	308.3
82.5°	41.3	44.0	60.6	79.8	107.3	140.4	173.4	200.9	220.2	222.9	225.7
85°	19.3	24.8	35.8	49.5	71.6	90.8	93.6	79.8	85.3	88.1	82.6
87.5°	5.5	8.3	11.0	8.3	11.0	11.0	13.8	16.5	16.5	16.5	19.3
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: P531856

CATALOG NUMBER: GALN-SA7A-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	3146.0	3121.2	3024.9	2989.1	2895.5	2912.0	2862.5	2859.7	2848.7	2845.9	2843.2
5°	3223.0	3146.0	3030.4	2942.3	2890.0	2884.5	2848.7	2848.7	2859.7	2868.0	2848.7
7.5°	3349.6	3261.6	3066.1	2983.6	2936.8	2928.5	2903.7	2884.5	2909.3	2901.0	2879.0
10°	3495.5	3341.4	3134.9	3063.4	2986.3	2967.1	2967.1	2975.3	2934.0	2947.8	2925.8
12.5°	3657.9	3451.5	3223.0	3140.5	3049.6	3038.6	3033.1	2972.6	2994.6	2983.6	2928.5
15°	3864.3	3578.1	3335.9	3195.5	3118.4	3068.9	2997.3	2986.3	2972.6	2945.0	2920.3
17.5°	4087.3	3715.7	3388.2	3212.0	3096.4	3060.6	3005.6	2947.8	2906.5	2912.0	2892.7
20°	4277.2	3842.3	3407.4	3228.5	3079.9	3011.1	2925.8	2890.0	2845.9	2843.2	2840.4
22.5°	4502.9	4013.0	3435.0	3184.5	3030.4	2958.8	2901.0	2837.7	2807.4	2768.9	2788.1
25°	4772.6	4079.0	3440.5	3159.7	2994.6	2868.0	2837.7	2768.9	2757.9	2702.8	2713.8
27.5°	4968.0	4114.8	3396.4	3082.7	2912.0	2815.7	2760.6	2711.1	2691.8	2650.5	2639.5
30°	5229.5	4169.8	3302.8	2986.3	2829.4	2722.1	2689.1	2678.1	2623.0	2579.0	2573.5
32.5°	5526.8	4205.6	3242.3	2887.2	2744.1	2661.5	2678.1	2625.8	2557.0	2518.4	2507.4
35°	5763.5	4219.4	3090.9	2774.4	2686.3	2634.0	2614.8	2603.7	2504.7	2468.9	2441.4
37.5°	6124.0	4189.1	2964.3	2694.6	2623.0	2603.7	2587.2	2512.9	2400.1	2347.8	2309.2
40°	6545.1	4180.8	2801.9	2581.7	2562.5	2584.5	2534.9	2419.3	2262.4	2204.6	2177.1
42.5°	6949.7	4238.6	2700.1	2521.2	2496.4	2504.7	2435.8	2262.4	2185.4	2152.4	2108.3
45°	7626.8	4359.8	2532.2	2427.6	2416.6	2411.1	2328.5	2146.8	2102.8	2061.5	2053.3
47.5°	8237.8	4279.9	2424.8	2331.3	2342.3	2312.0	2135.8	2078.0	2028.5	1987.2	1973.4
50°	8273.6	4090.0	2273.5	2256.9	2259.7	2207.4	2039.5	2001.0	1937.7	1910.1	1890.9
52.5°	8086.5	3779.0	2133.1	2138.6	2146.8	2061.5	1921.2	1893.6	1841.3	1802.8	1791.8
55°	7560.8	3294.6	1995.5	2017.5	2039.5	1877.1	1833.1	1764.3	1723.0	1667.9	1670.7
57.5°	6660.7	2653.3	1802.8	1838.6	1885.4	1706.5	1673.4	1588.1	1527.6	1483.5	1478.0
60°	4464.3	1888.1	1513.8	1527.6	1632.2	1560.6	1557.8	1472.5	1389.9	1351.4	1329.4
62.5°	2634.0	1442.2	1307.4	1293.6	1290.9	1332.1	1401.0	1370.7	1263.3	1189.0	1211.0
65°	1378.9	1246.8	1216.5	1169.8	1142.2	1131.2	1183.5	1197.3	1125.7	1045.9	1040.4
67.5°	1158.7	1158.7	1134.0	1117.5	1078.9	1032.1	999.1	955.1	944.1	922.0	894.5
70°	1054.2	1081.7	1073.4	1034.9	1001.9	949.6	864.2	792.7	723.9	699.1	715.6
72.5°	919.3	946.8	946.8	927.5	883.5	803.7	721.1	638.5	580.7	536.7	531.2
75°	707.4	721.1	754.1	732.1	674.3	624.8	539.5	454.1	399.1	357.8	349.6
77.5°	451.4	473.4	473.4	470.7	429.4	382.6	327.5	267.0	225.7	195.4	187.2
80°	300.0	313.8	324.8	313.8	286.2	250.5	209.2	167.9	137.6	112.8	107.3
82.5°	220.2	236.7	245.0	234.0	206.4	178.9	148.6	118.4	88.1	68.8	63.3
85°	85.3	88.1	99.1	118.4	115.6	112.8	90.8	66.1	49.5	35.8	33.0
87.5°	22.0	19.3	22.0	22.0	19.3	16.5	16.5	16.5	16.5	8.3	11.0
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)