

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: P528219

Luminaire Tested: **GALN-SA3B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9624 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

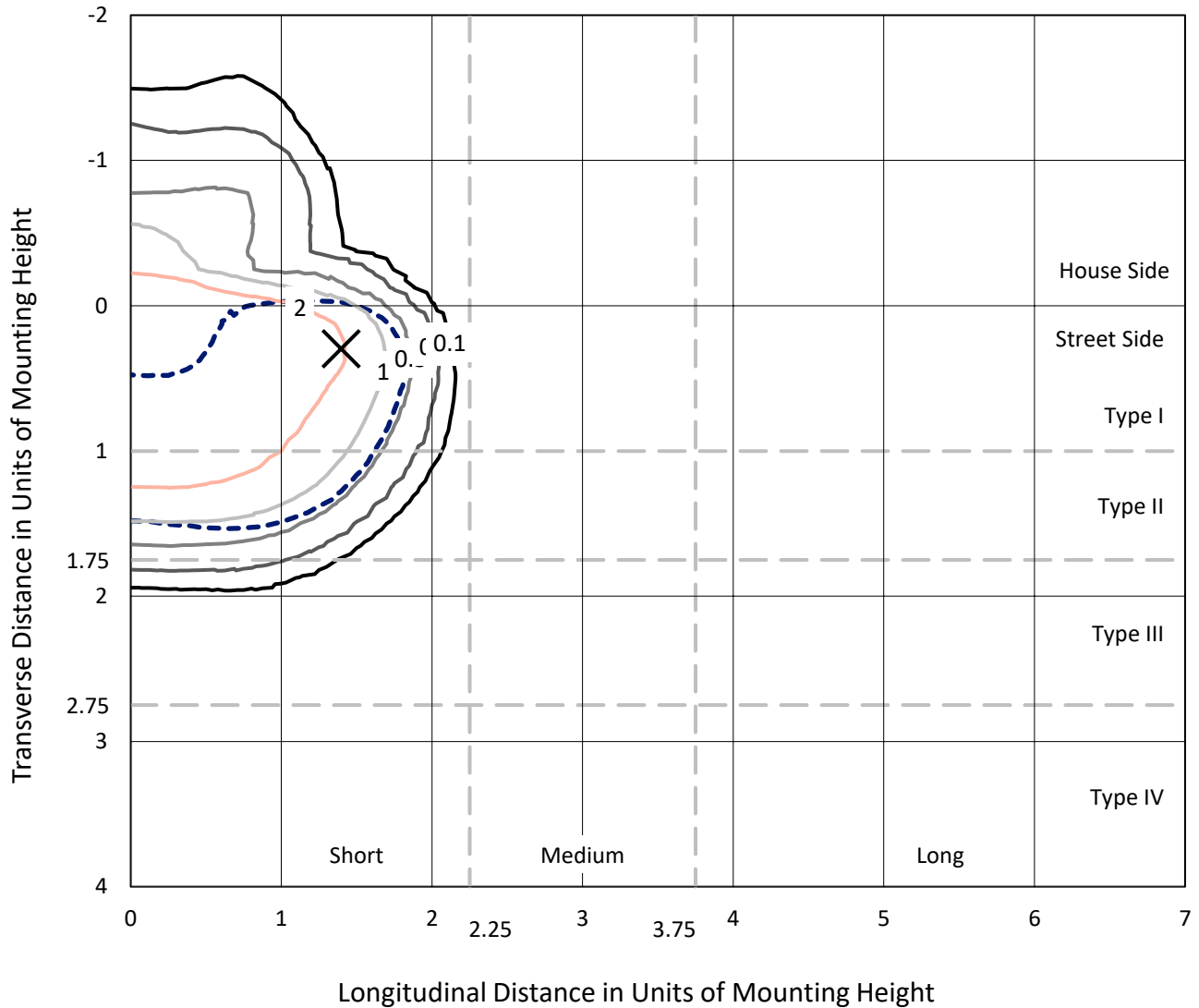
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528219
 CATALOG NUMBER: GALN-SA3B-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

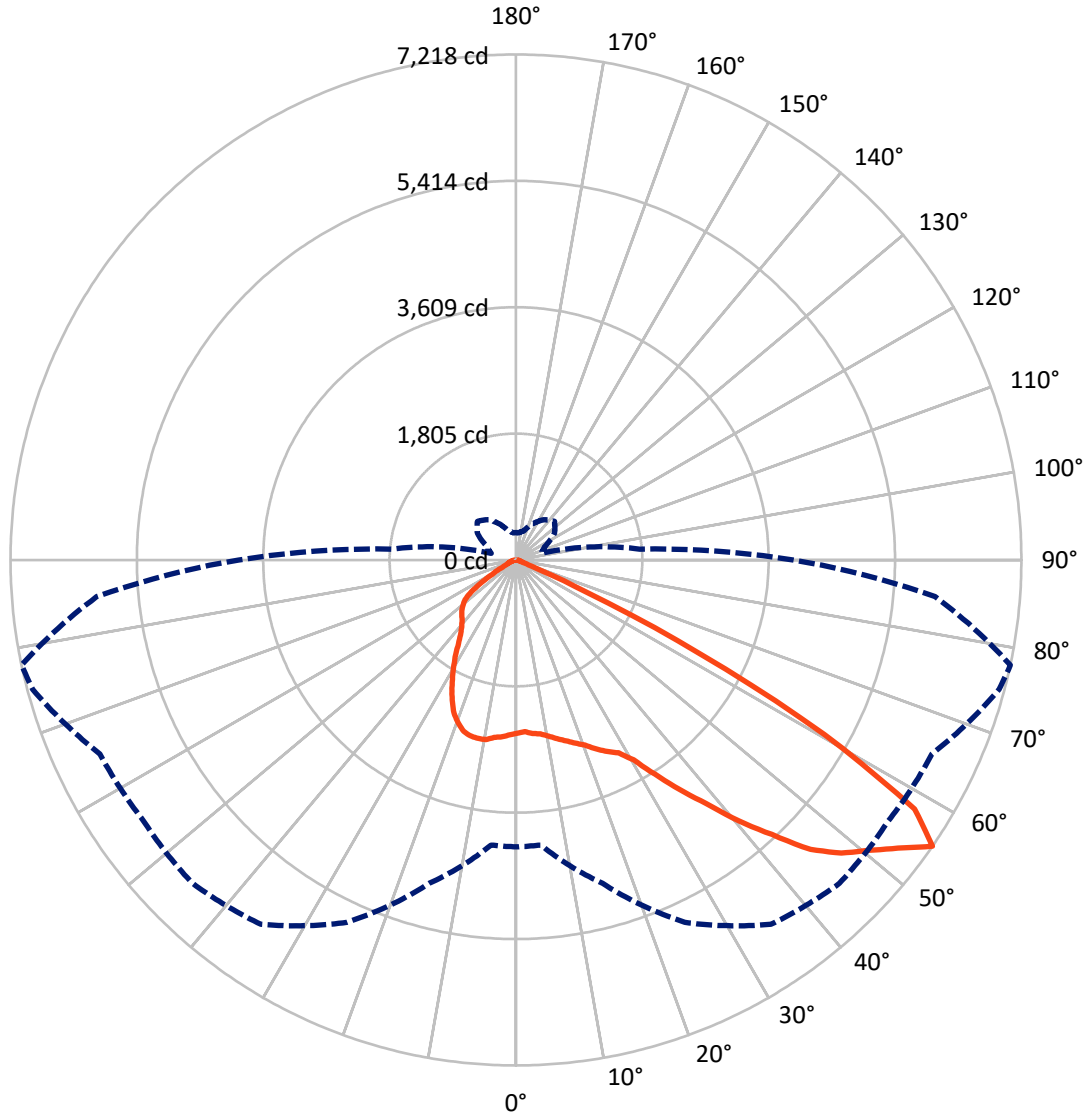
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

REPORT NUMBER: P528219
CATALOG NUMBER: GALN-SA3B-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P528219

CATALOG NUMBER: GALN-SA3B-735-U-T3R-GRSBK

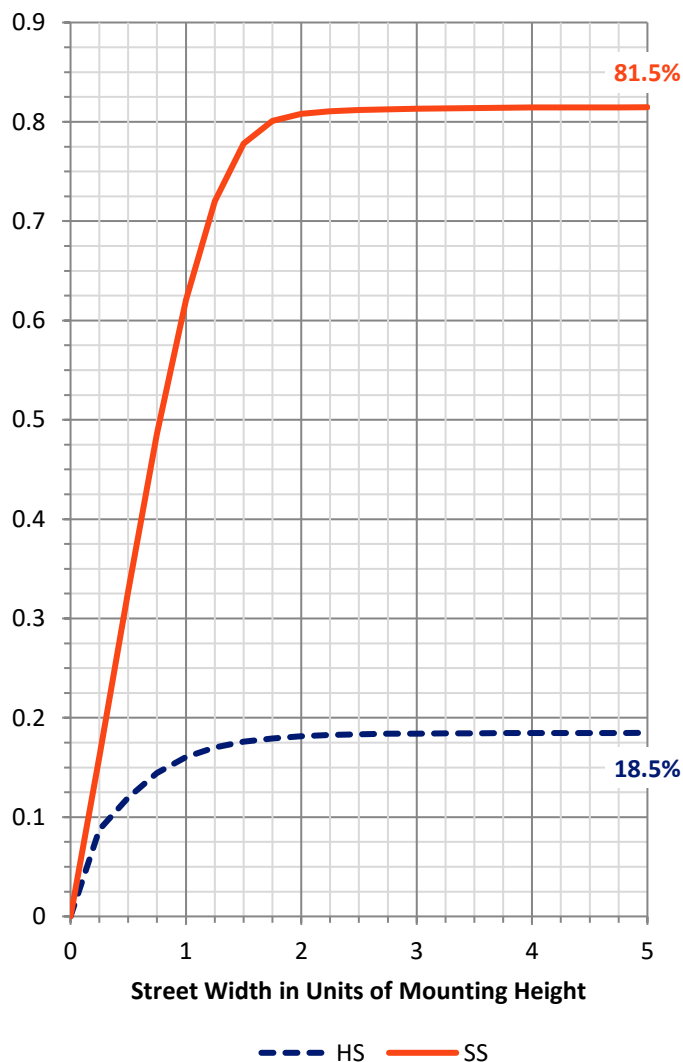
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1787.5	0.0	1787.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7836.4	0.0	7836.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	9624.0	0.0	9624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	2.3
10°-20°	583.9	6.1
20°-30°	1023.5	10.6
30°-40°	1687.6	17.5
40°-50°	2455.7	25.5
50°-60°	2782.5	28.9
60°-70°	795.6	8.3
70°-80°	61.8	0.6
80°-90°	12.8	0.1
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°	9624.0	100.0
0°-180°	9624.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528219

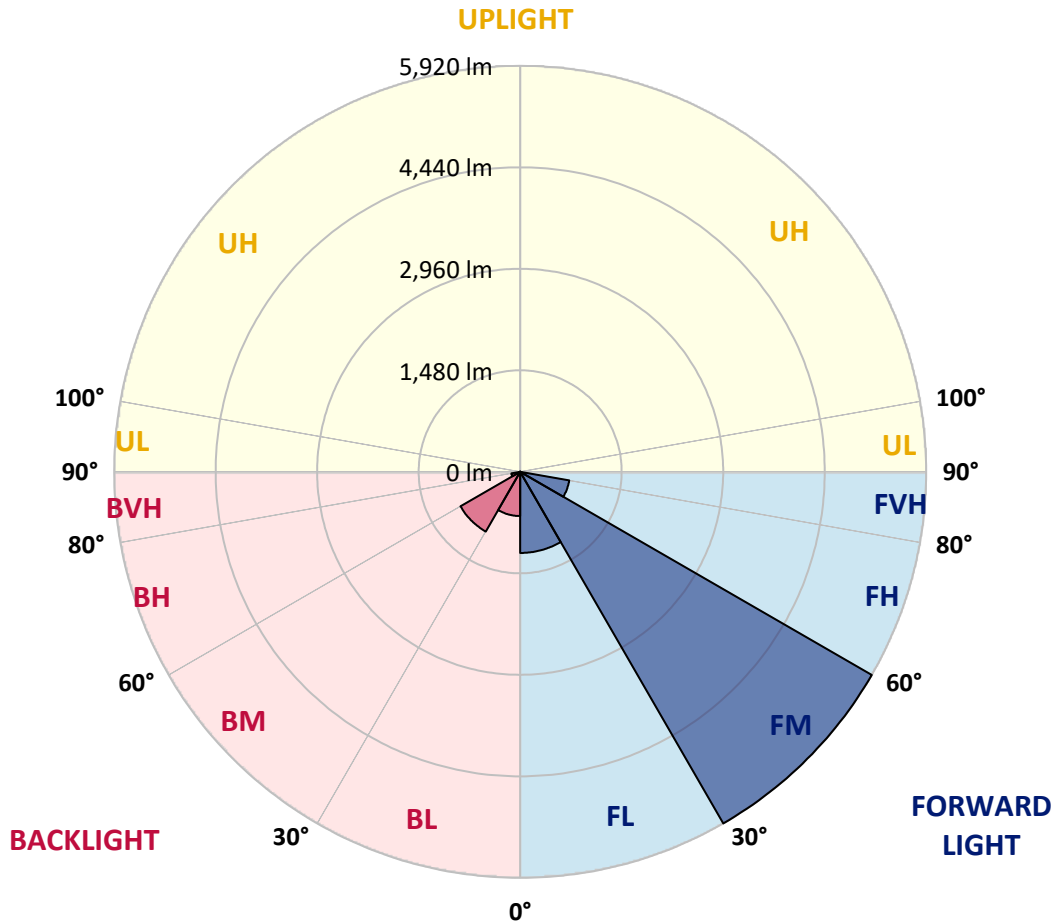
CATALOG NUMBER: GALN-SA3B-735-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.1	12.3			
FM (30°-60°)	5920.3	61.5			
FH (60°-80°)	726.9	7.6			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	645.0	6.7	B2/1000		
BM (30°-60°)	1005.5	10.4	B2/2500		
BH (60°-80°)	130.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
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





REPORT NUMBER: P528219

CATALOG NUMBER: GALN-SA3B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3
2.5°	2326.4	2348.7	2352.2	2379.7	2378.0	2424.4	2438.2	2439.9	2470.9	2455.4	2495.0
5°	2261.0	2248.9	2243.8	2291.9	2305.7	2347.0	2381.4	2402.1	2465.7	2488.1	2529.4
7.5°	2202.5	2202.5	2205.9	2248.9	2243.8	2297.1	2333.2	2396.9	2489.8	2508.7	2558.6
10°	2145.7	2125.0	2150.8	2195.6	2233.4	2257.5	2333.2	2393.5	2501.9	2556.9	2625.8
12.5°	2116.4	2126.8	2130.2	2162.9	2204.2	2276.5	2317.8	2417.6	2587.9	2620.6	2694.6
15°	2300.5	2279.9	2230.0	2200.7	2235.2	2269.6	2372.8	2474.3	2632.6	2679.1	2761.7
17.5°	2513.9	2496.7	2455.4	2376.3	2298.8	2362.5	2443.4	2536.3	2680.8	2749.6	2871.8
20°	2792.7	2765.1	2723.8	2569.0	2501.9	2433.0	2519.1	2629.2	2760.0	2821.9	2947.5
22.5°	3124.8	3124.8	3031.8	2844.3	2704.9	2639.5	2675.7	2739.3	2847.7	2932.0	3055.9
25°	3470.6	3460.3	3376.0	3181.5	2945.8	2868.4	2909.7	2954.4	2983.7	3030.1	3112.7
27.5°	3866.4	3806.1	3699.5	3484.4	3276.2	3126.5	3171.2	3131.6	3095.5	3119.6	3238.3
30°	4134.8	4172.6	4036.7	3830.2	3634.1	3467.2	3475.8	3441.4	3276.2	3310.6	3381.1
32.5°	4413.5	4437.6	4361.9	4248.4	4052.2	3857.8	3787.2	3758.0	3634.1	3649.6	3580.7
35°	4645.8	4692.3	4625.2	4575.3	4518.5	4361.9	4167.5	4262.1	4062.5	4024.7	3845.7
37.5°	4859.2	4845.4	4924.6	4873.0	4860.9	4750.8	4537.4	4556.4	4422.1	4413.5	4207.1
40°	5050.2	5053.6	5162.0	5186.1	5137.9	4941.8	4632.1	4781.8	4890.2	4900.5	4635.5
42.5°	5208.5	5255.0	5347.9	5542.3	5470.0	5143.1	4730.1	4893.6	5296.2	5359.9	5041.6
45°	5346.1	5440.8	5556.1	5729.9	5688.6	5428.7	4974.5	5124.2	5729.9	5896.8	5423.6
47.5°	5354.8	5478.6	5604.3	5862.4	5914.0	5581.9	5227.4	5489.0	6074.0	6254.7	5702.3
50°	5320.3	5385.7	5636.9	5917.4	6034.4	5831.4	5581.9	5795.2	6407.8	6521.4	5843.4
52.5°	4912.5	4962.4	5466.6	5969.0	6251.2	6113.6	6051.6	6222.0	6748.5	6832.8	5975.9
55°	4095.2	4086.6	4780.0	5709.2	6351.0	6531.7	6493.8	6554.1	7142.5	7218.2	6008.6
57.5°	2801.3	2957.8	3556.6	4754.2	5740.2	6433.6	6473.2	6373.4	6683.1	6712.4	5237.7
60°	1510.8	1576.1	2057.9	3172.9	4370.5	5242.9	5346.1	5165.5	5141.4	5058.8	3739.0
62.5°	600.5	633.2	906.8	1571.0	2381.4	3186.7	3408.7	3334.7	3176.4	2959.6	1935.8
65°	285.6	306.3	450.8	734.7	1056.5	1328.4	1550.3	1619.2	1194.2	1075.4	638.4
67.5°	194.4	209.9	328.6	419.8	376.8	394.0	512.8	476.6	280.5	239.2	177.2
70°	148.0	158.3	263.3	285.6	168.6	118.7	132.5	123.9	115.3	117.0	115.3
72.5°	105.0	113.6	192.7	168.6	74.0	55.1	70.5	84.3	84.3	84.3	82.6
75°	63.7	72.3	111.8	65.4	29.3	29.3	44.7	56.8	60.2	61.9	58.5
77.5°	32.7	41.3	37.9	18.9	18.9	22.4	32.7	39.6	43.0	43.0	41.3
80°	6.9	6.9	6.9	10.3	18.9	24.1	32.7	36.1	41.3	41.3	37.9
82.5°	0.0	1.7	5.2	10.3	17.2	22.4	31.0	36.1	41.3	43.0	39.6
85°	0.0	1.7	3.4	6.9	12.0	13.8	12.0	10.3	10.3	10.3	10.3
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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: P528219

CATALOG NUMBER: GALN-SA3B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3
2.5°	2498.4	2503.6	2495.0	2493.3	2486.4	2507.0	2457.1	2445.1	2476.1	2446.8	2453.7
5°	2531.1	2543.2	2527.7	2501.9	2464.0	2405.5	2355.6	2290.2	2259.3	2236.9	2233.4
7.5°	2555.2	2563.8	2548.3	2465.7	2352.2	2204.2	2094.1	2013.2	1949.5	1930.6	1899.6
10°	2653.3	2655.0	2577.6	2395.2	2173.2	1978.8	1810.2	1686.3	1622.6	1583.0	1565.8
12.5°	2718.7	2715.2	2558.6	2255.8	1959.9	1701.8	1509.0	1359.3	1300.8	1281.9	1269.9
15°	2801.3	2782.3	2513.9	2113.0	1684.5	1405.8	1232.0	1128.8	1123.6	1111.6	1123.6
17.5°	2866.7	2813.3	2448.5	1853.2	1421.3	1158.0	1044.5	1051.3	1065.1	1077.1	1078.9
20°	2973.3	2863.2	2298.8	1626.0	1176.9	992.8	991.1	1022.1	1056.5	1070.3	1084.0
22.5°	3054.2	2883.9	2138.8	1383.4	977.3	925.7	955.0	1001.4	1027.2	1041.0	1061.7
25°	3083.5	2827.1	1925.4	1140.8	881.0	894.8	939.5	970.5	1003.2	1018.6	1010.0
27.5°	3112.7	2797.8	1670.8	939.5	829.4	874.1	912.0	942.9	953.3	973.9	987.7
30°	3183.3	2696.3	1441.9	812.2	803.6	860.3	887.9	898.2	925.7	937.8	937.8
32.5°	3240.0	2656.7	1199.3	751.9	800.1	867.2	870.7	870.7	874.1	865.5	862.1
35°	3357.0	2520.8	982.5	715.8	798.4	868.9	877.5	848.3	769.1	738.2	729.6
37.5°	3501.6	2433.0	822.5	707.2	810.4	889.6	903.4	793.2	690.0	640.1	631.5
40°	3677.1	2371.1	717.5	703.8	838.0	937.8	896.5	750.2	616.0	543.7	540.3
42.5°	3881.9	2314.3	647.0	702.0	872.4	987.7	889.6	714.1	540.3	492.1	499.0
45°	4045.3	2283.3	598.8	690.0	884.4	1016.9	894.8	650.4	509.3	478.3	481.8
47.5°	4172.6	2218.0	559.2	669.3	882.7	1027.2	848.3	624.6	493.8	502.4	511.0
50°	4176.1	2130.2	509.3	624.6	856.9	1008.3	795.0	600.5	490.4	526.5	543.7
52.5°	4129.6	2006.3	456.0	560.9	796.7	942.9	746.8	590.2	474.9	471.5	492.1
55°	3964.4	1774.0	366.5	454.3	672.8	777.7	703.8	571.3	428.4	388.9	392.3
57.5°	3203.9	1271.6	270.1	325.2	476.6	569.5	634.9	562.7	385.4	330.4	332.1
60°	1983.9	721.0	197.9	222.0	294.2	345.9	514.5	523.1	344.1	278.7	275.3
62.5°	1018.6	356.2	153.1	156.6	180.7	203.0	352.7	438.8	311.4	265.0	265.0
65°	340.7	175.5	134.2	120.4	120.4	125.6	213.4	304.6	263.3	222.0	222.0
67.5°	146.3	130.8	117.0	105.0	96.4	91.2	120.4	177.2	196.2	168.6	161.7
70°	113.6	110.1	101.5	87.8	75.7	68.8	70.5	91.2	111.8	108.4	105.0
72.5°	84.3	84.3	80.9	68.8	58.5	49.9	46.5	48.2	53.3	55.1	56.8
75°	58.5	60.2	60.2	53.3	43.0	36.1	31.0	25.8	20.6	17.2	15.5
77.5°	39.6	41.3	44.7	39.6	32.7	24.1	18.9	13.8	8.6	3.4	3.4
80°	34.4	39.6	43.0	39.6	34.4	25.8	18.9	10.3	5.2	0.0	0.0
82.5°	36.1	39.6	44.7	37.9	32.7	24.1	18.9	12.0	5.2	1.7	0.0
85°	8.6	8.6	10.3	12.0	15.5	17.2	13.8	8.6	5.2	1.7	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0
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)