

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: P528869

Luminaire Tested: **GALN-SA4A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528869
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-SA4A-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 9202 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

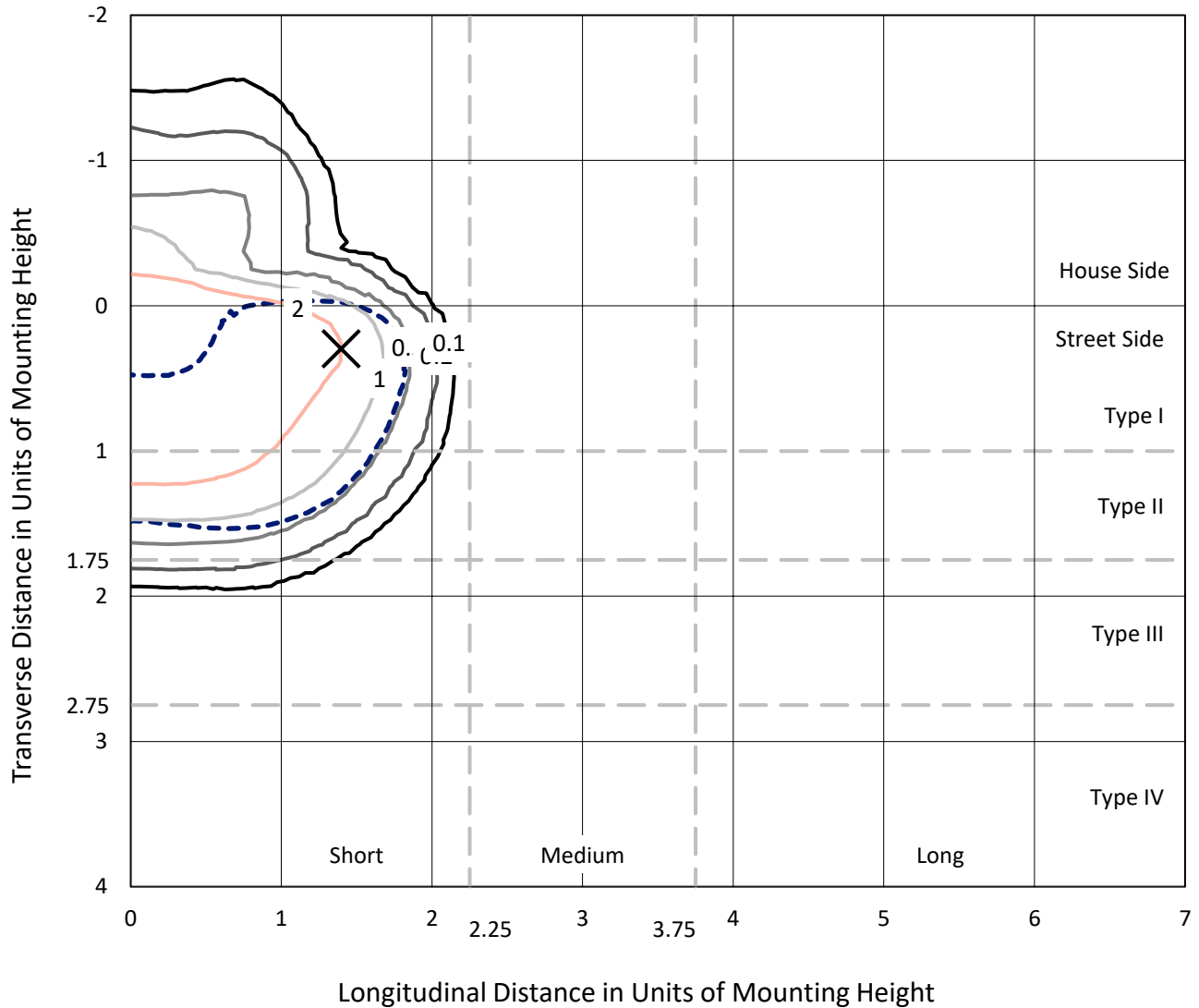
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528869
 CATALOG NUMBER: GALN-SA4A-727-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

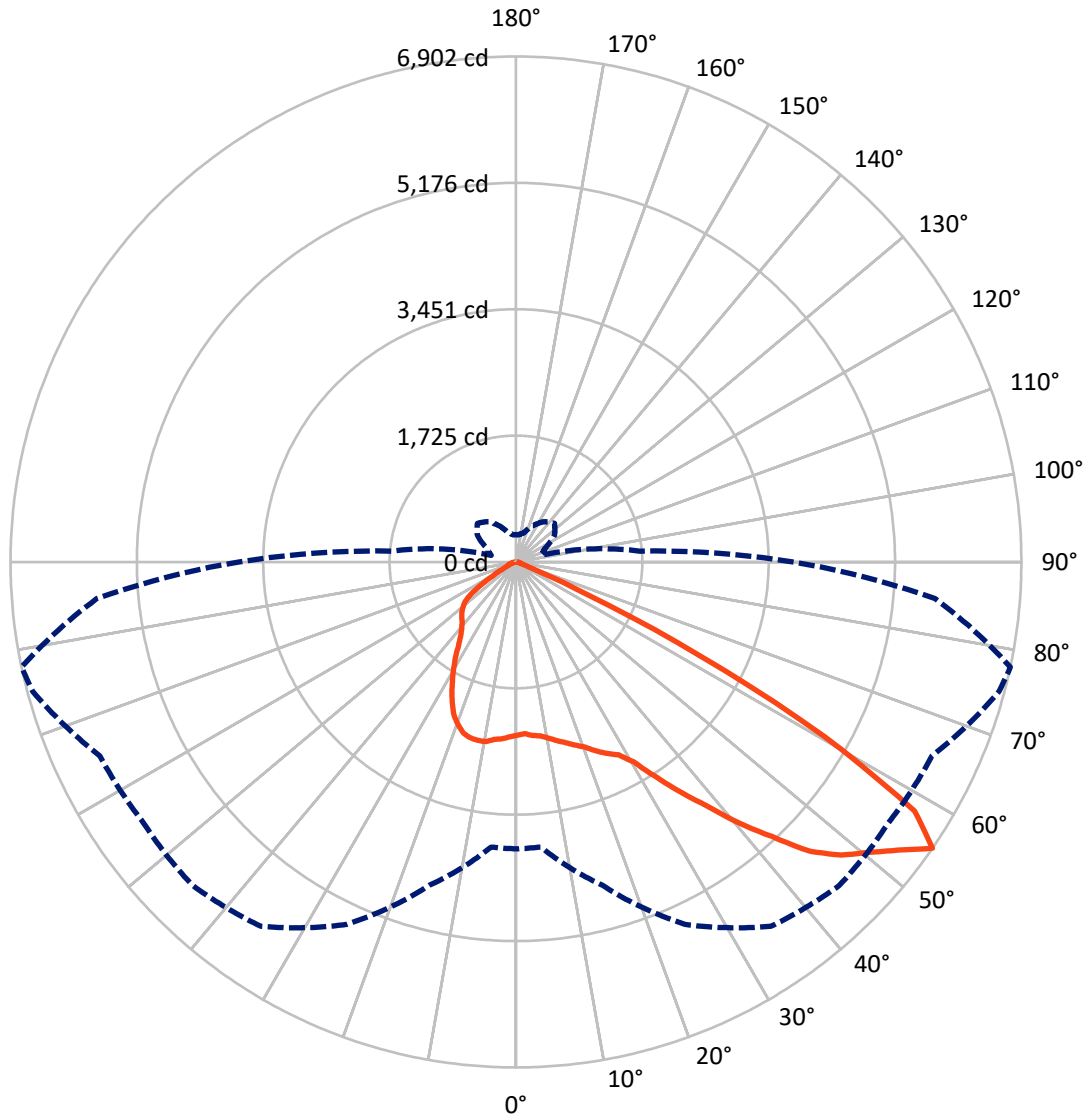
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P528869
CATALOG NUMBER: GALN-SA4A-727-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P528869

CATALOG NUMBER: GALN-SA4A-727-U-T3R-GRSBK

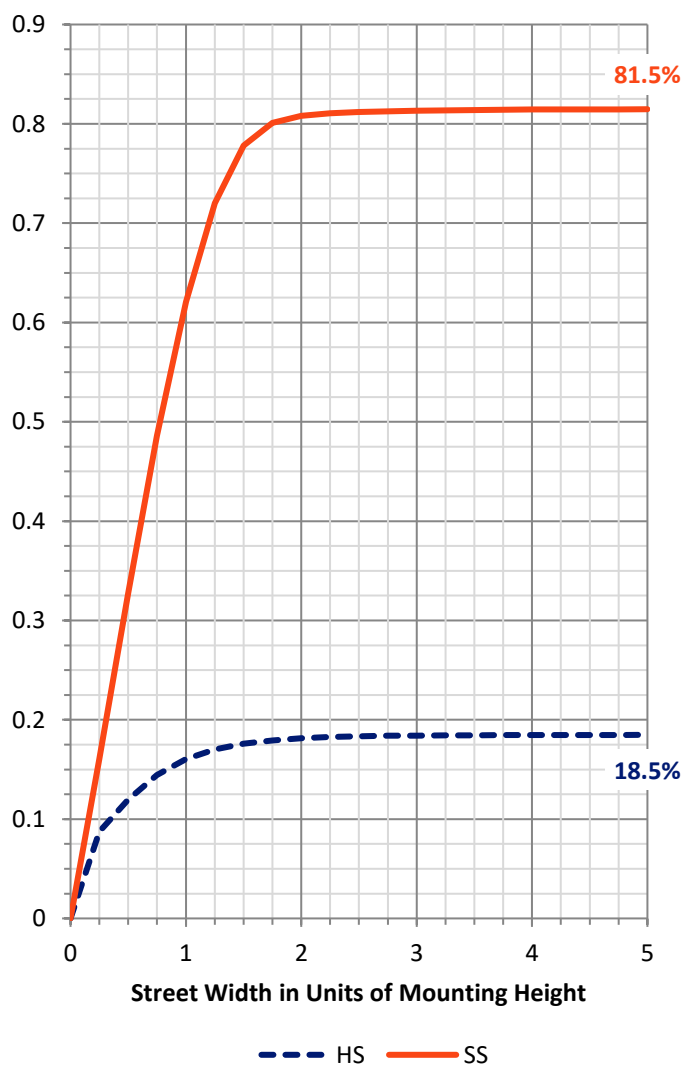
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1709.2	0.0	1709.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7492.8	0.0	7492.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	9202.0	0.0	9202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	2.3
10°-20°	558.3	6.1
20°-30°	978.6	10.6
30°-40°	1613.6	17.5
40°-50°	2348.0	25.5
50°-60°	2660.5	28.9
60°-70°	760.7	8.3
70°-80°	59.1	0.6
80°-90°	12.3	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°	9202.0	100.0
0°-180°	9202.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528869

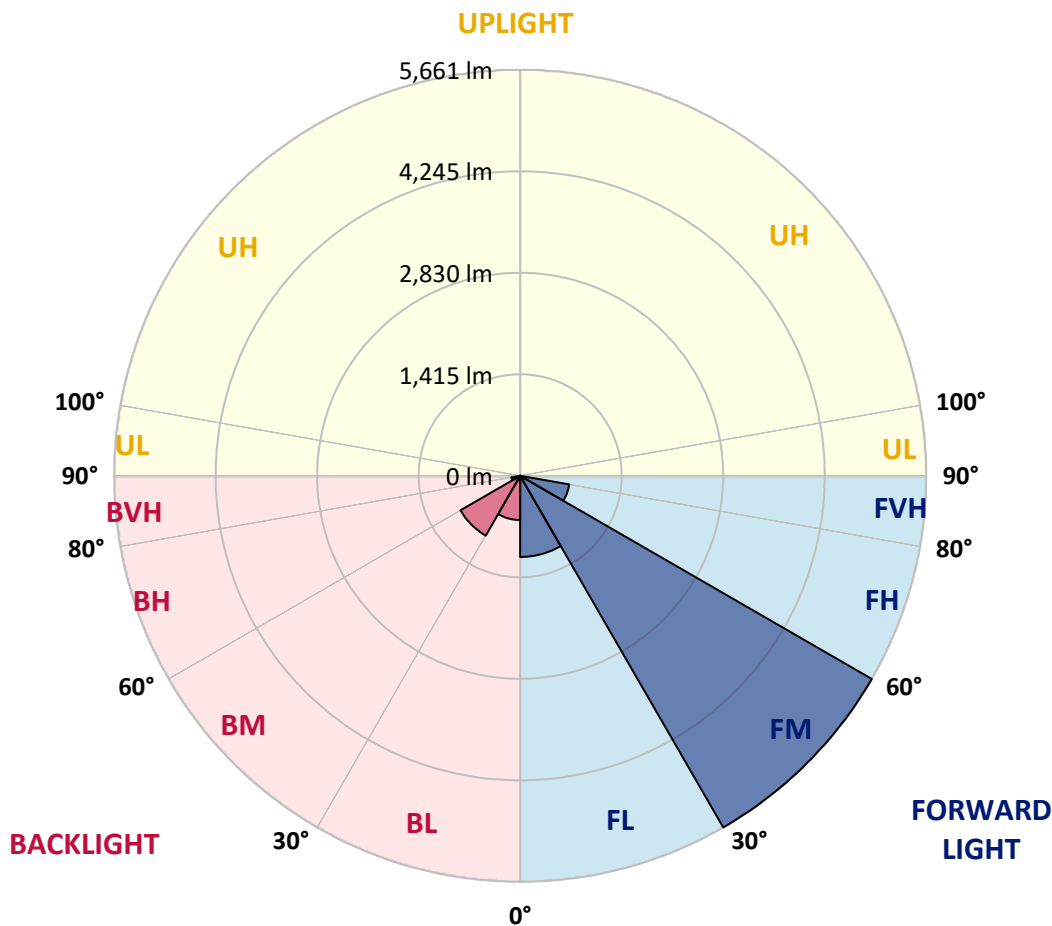
CATALOG NUMBER: GALN-SA4A-727-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.2	12.3			
FM (30°-60°)	5660.7	61.5			
FH (60°-80°)	695.0	7.6			G1/1800
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	616.7	6.7	B2/1000		
BM (30°-60°)	961.4	10.4	B1/1000		
BH (60°-80°)	124.8	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	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: P528869

CATALOG NUMBER: GALN-SA4A-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8
2.5°	2224.3	2245.7	2249.0	2275.4	2273.7	2318.1	2331.3	2332.9	2362.5	2347.7	2385.6
5°	2161.8	2150.3	2145.4	2191.4	2204.6	2244.1	2277.0	2296.7	2357.6	2379.0	2418.5
7.5°	2105.9	2105.9	2109.2	2150.3	2145.4	2196.4	2230.9	2291.8	2380.6	2398.7	2446.5
10°	2051.6	2031.9	2056.5	2099.3	2135.5	2158.5	2230.9	2288.5	2392.2	2444.8	2510.6
12.5°	2023.6	2033.5	2036.8	2068.1	2107.5	2176.6	2216.1	2311.5	2474.4	2505.7	2576.4
15°	2199.7	2179.9	2132.2	2104.2	2137.2	2170.1	2268.8	2365.8	2517.2	2561.6	2640.6
17.5°	2403.7	2387.2	2347.7	2272.1	2198.0	2258.9	2336.2	2425.1	2563.3	2629.1	2745.9
20°	2670.2	2643.9	2604.4	2456.3	2392.2	2326.4	2408.6	2513.9	2638.9	2698.2	2818.3
22.5°	2987.7	2987.7	2898.9	2719.6	2586.3	2523.8	2558.3	2619.2	2722.9	2803.5	2921.9
25°	3318.4	3308.6	3227.9	3042.0	2816.6	2742.6	2782.1	2824.9	2852.8	2897.2	2976.2
27.5°	3696.8	3639.2	3537.2	3331.6	3132.5	2989.4	3032.2	2994.3	2959.8	2982.8	3096.3
30°	3953.5	3989.7	3859.7	3662.3	3474.7	3315.1	3323.4	3290.5	3132.5	3165.4	3232.9
32.5°	4220.0	4243.0	4170.7	4062.1	3874.5	3688.6	3621.1	3593.2	3474.7	3489.5	3423.7
35°	4442.1	4486.5	4422.4	4374.7	4320.4	4170.7	3984.7	4075.2	3884.4	3848.2	3677.1
37.5°	4646.1	4633.0	4708.6	4659.3	4647.8	4542.5	4338.5	4356.6	4228.2	4220.0	4022.6
40°	4828.7	4832.0	4935.7	4958.7	4912.7	4725.1	4429.0	4572.1	4675.7	4685.6	4432.2
42.5°	4980.1	5024.5	5113.4	5299.3	5230.2	4917.6	4522.7	4679.0	5064.0	5124.9	4820.5
45°	5111.7	5202.2	5312.4	5478.6	5439.1	5190.7	4756.4	4899.5	5478.6	5638.2	5185.8
47.5°	5120.0	5238.4	5358.5	5605.3	5654.7	5337.1	4998.2	5248.3	5807.7	5980.4	5452.3
50°	5087.0	5149.6	5389.8	5657.9	5769.8	5575.7	5337.1	5541.1	6126.8	6235.4	5587.2
52.5°	4697.1	4744.8	5226.9	5707.3	5977.1	5845.5	5786.3	5949.1	6452.6	6533.2	5713.9
55°	3915.6	3907.4	4570.4	5458.9	6072.5	6245.3	6209.1	6266.7	6829.3	6901.7	5745.1
57.5°	2678.4	2828.1	3400.7	4545.8	5488.5	6151.5	6189.4	6093.9	6390.1	6418.0	5008.1
60°	1444.5	1507.0	1967.7	3033.8	4178.9	5013.0	5111.7	4939.0	4915.9	4837.0	3575.1
62.5°	574.2	605.4	867.0	1502.1	2277.0	3047.0	3259.2	3188.5	3037.1	2829.8	1850.9
65°	273.1	292.9	431.1	702.5	1010.2	1270.1	1482.4	1548.2	1141.8	1028.3	610.4
67.5°	185.9	200.7	314.2	401.4	360.3	376.8	490.3	455.7	268.2	228.7	169.5
70°	141.5	151.4	251.7	273.1	161.2	113.5	126.7	118.5	110.2	111.9	110.2
72.5°	100.4	108.6	184.3	161.2	70.7	52.6	67.5	80.6	80.6	80.6	79.0
75°	60.9	69.1	106.9	62.5	28.0	28.0	42.8	54.3	57.6	59.2	55.9
77.5°	31.3	39.5	36.2	18.1	18.1	21.4	31.3	37.8	41.1	41.1	39.5
80°	6.6	6.6	6.6	9.9	18.1	23.0	31.3	34.5	39.5	39.5	36.2
82.5°	0.0	1.6	4.9	9.9	16.5	21.4	29.6	34.5	39.5	41.1	37.8
85°	0.0	1.6	3.3	6.6	11.5	13.2	11.5	9.9	9.9	9.9	9.9
87.5°	0.0	0.0	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3
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: P528869

CATALOG NUMBER: GALN-SA4A-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8	2365.8
2.5°	2388.9	2393.8	2385.6	2383.9	2377.4	2397.1	2349.4	2337.9	2367.5	2339.5	2346.1
5°	2420.1	2431.6	2416.8	2392.2	2356.0	2300.0	2252.3	2189.8	2160.2	2138.8	2135.5
7.5°	2443.2	2451.4	2436.6	2357.6	2249.0	2107.5	2002.2	1924.9	1864.0	1845.9	1816.3
10°	2536.9	2538.6	2464.6	2290.2	2077.9	1892.0	1730.8	1612.3	1551.5	1513.6	1497.2
12.5°	2599.5	2596.2	2446.5	2156.9	1873.9	1627.1	1442.9	1299.7	1243.8	1225.7	1214.2
15°	2678.4	2660.3	2403.7	2020.3	1610.7	1344.2	1178.0	1079.3	1074.3	1062.8	1074.3
17.5°	2741.0	2689.9	2341.2	1771.9	1359.0	1107.2	998.7	1005.2	1018.4	1029.9	1031.6
20°	2843.0	2737.7	2198.0	1554.7	1125.3	949.3	947.7	977.3	1010.2	1023.3	1036.5
22.5°	2920.3	2757.4	2045.0	1322.8	934.5	885.1	913.1	957.5	982.2	995.4	1015.1
25°	2948.3	2703.1	1841.0	1090.8	842.4	855.5	898.3	927.9	959.2	974.0	965.7
27.5°	2976.2	2675.1	1597.5	898.3	793.0	835.8	872.0	901.6	911.5	931.2	944.4
30°	3043.7	2578.1	1378.7	776.5	768.3	822.6	848.9	858.8	885.1	896.6	896.6
32.5°	3098.0	2540.2	1146.7	719.0	765.0	829.2	832.5	832.5	835.8	827.6	824.3
35°	3209.8	2410.3	939.4	684.4	763.4	830.8	839.1	811.1	735.4	705.8	697.6
37.5°	3348.0	2326.4	786.4	676.2	774.9	850.6	863.7	758.5	659.7	612.0	603.8
40°	3515.9	2267.1	686.1	672.9	801.2	896.6	857.2	717.3	589.0	519.9	516.6
42.5°	3711.6	2212.8	618.6	671.3	834.1	944.4	850.6	682.8	516.6	470.5	477.1
45°	3867.9	2183.2	572.5	659.7	845.6	972.3	855.5	621.9	487.0	457.4	460.7
47.5°	3989.7	2120.7	534.7	640.0	844.0	982.2	811.1	597.2	472.2	480.4	488.6
50°	3993.0	2036.8	487.0	597.2	819.3	964.1	760.1	574.2	468.9	503.4	519.9
52.5°	3948.6	1918.3	436.0	536.3	761.7	901.6	714.0	564.3	454.1	450.8	470.5
55°	3790.6	1696.2	350.4	434.3	643.3	743.6	672.9	546.2	409.7	371.8	375.1
57.5°	3063.4	1215.8	258.3	310.9	455.7	544.6	607.1	538.0	368.5	315.9	317.5
60°	1896.9	689.4	189.2	212.2	281.3	330.7	491.9	500.1	329.0	266.5	263.2
62.5°	974.0	340.6	146.4	149.7	172.7	194.1	337.3	419.5	297.8	253.4	253.4
65°	325.8	167.8	128.3	115.2	115.2	120.1	204.0	291.2	251.7	212.2	212.2
67.5°	139.8	125.0	111.9	100.4	92.1	87.2	115.2	169.5	187.6	161.2	154.7
70°	108.6	105.3	97.1	83.9	72.4	65.8	67.5	87.2	106.9	103.6	100.4
72.5°	80.6	80.6	77.3	65.8	55.9	47.7	44.4	46.1	51.0	52.6	54.3
75°	55.9	57.6	57.6	51.0	41.1	34.5	29.6	24.7	19.7	16.5	14.8
77.5°	37.8	39.5	42.8	37.8	31.3	23.0	18.1	13.2	8.2	3.3	3.3
80°	32.9	37.8	41.1	37.8	32.9	24.7	18.1	9.9	4.9	0.0	0.0
82.5°	34.5	37.8	42.8	36.2	31.3	23.0	18.1	11.5	4.9	1.6	0.0
85°	8.2	8.2	9.9	11.5	14.8	16.5	13.2	8.2	4.9	1.6	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	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)