

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: P646933

Luminaire Tested: **GALN-SA5C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24875.1 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

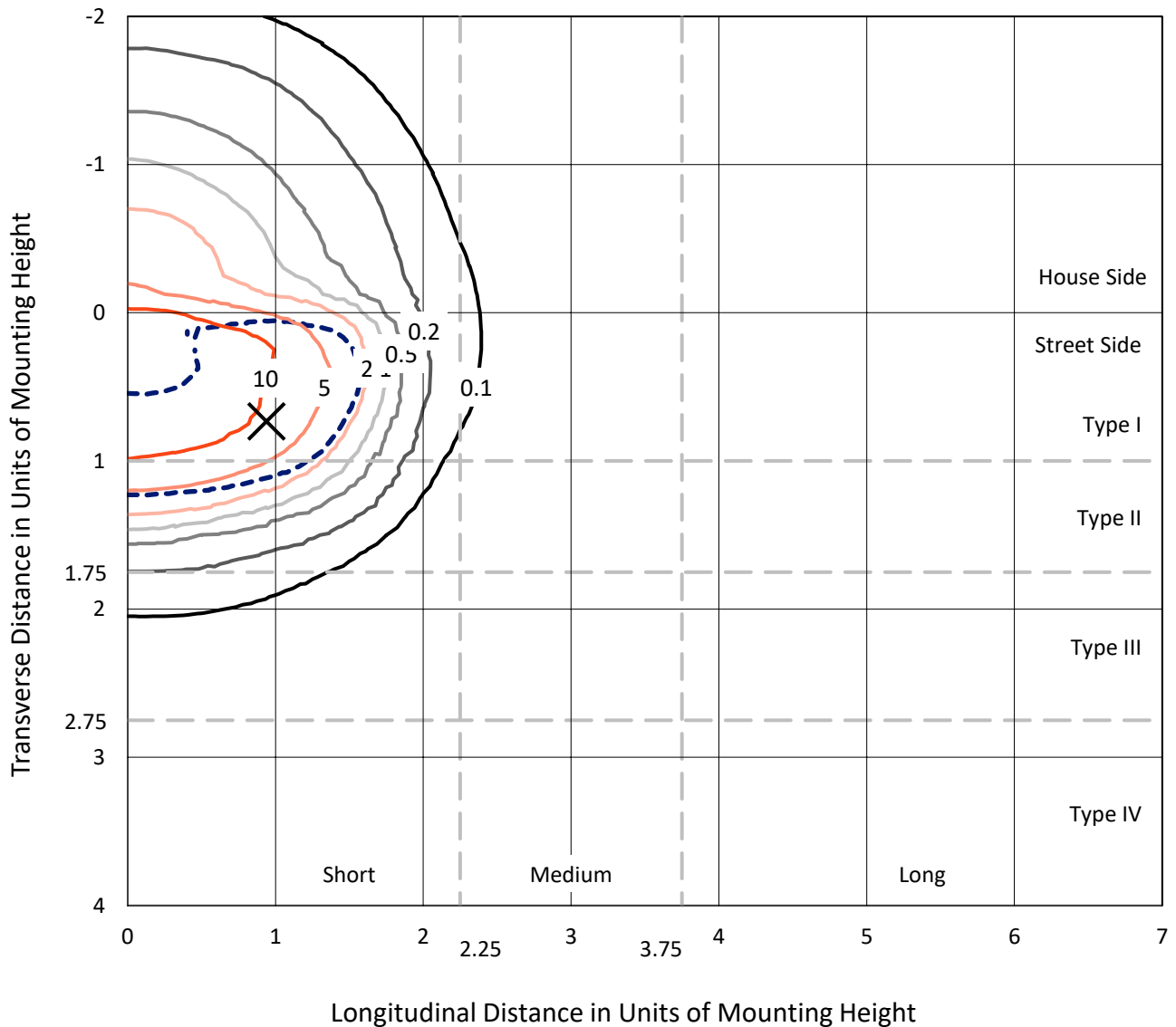
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646933
 CATALOG NUMBER: GALN-SA5C-835-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

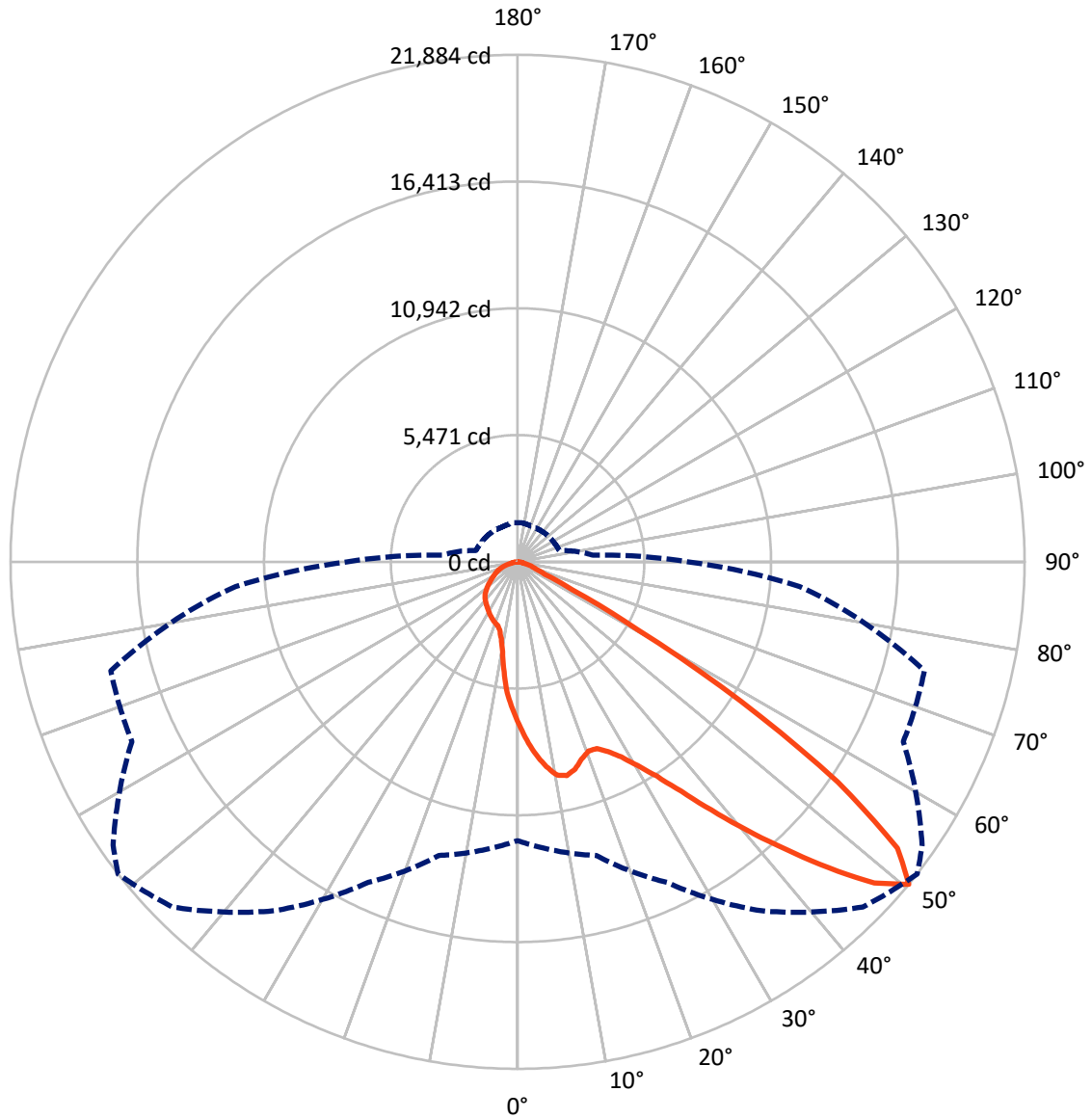
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

REPORT NUMBER: P646933
CATALOG NUMBER: GALN-SA5C-835-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P646933
 CATALOG NUMBER: GALN-SA5C-835-U-AFL-GRSWH

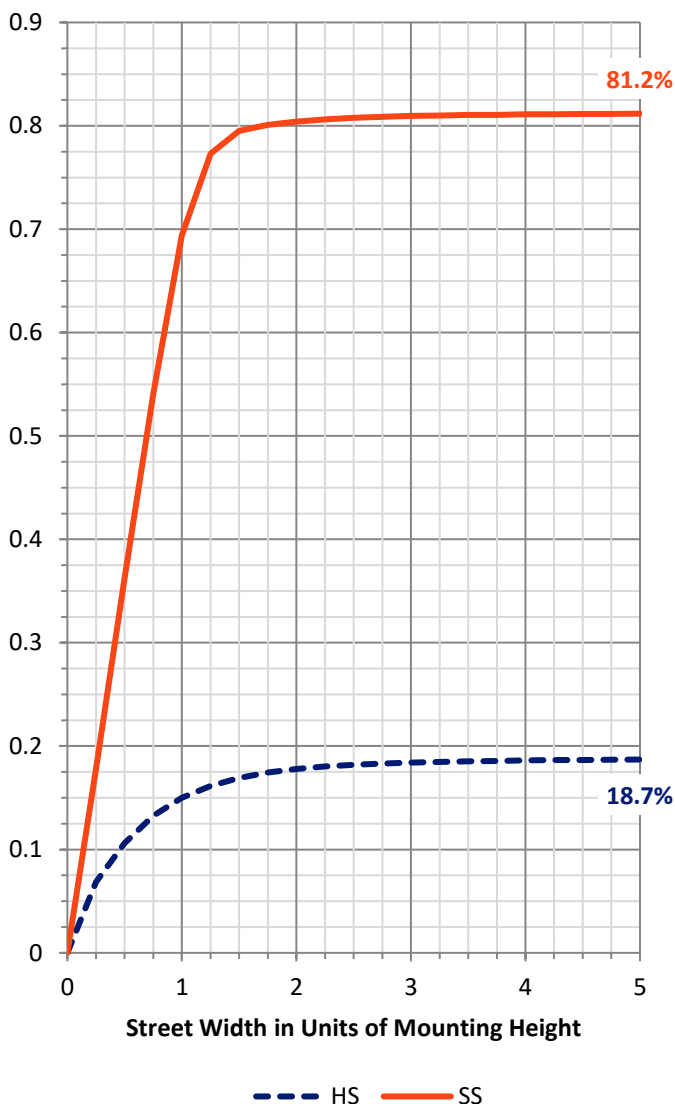
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4675.9	0.0	4675.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20199.2	0.0	20199.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	24875.1	0.0	24875.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.3	2.6
10°-20°	1732.2	7.0
20°-30°	2917.8	11.7
30°-40°	4896.3	19.7
40°-50°	7490.2	30.1
50°-60°	5461.0	22.0
60°-70°	1215.3	4.9
70°-80°	438.4	1.8
80°-90°	77.6	0.3
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°	24875.1	100.0
0°-180°	24875.1	100.0

Coefficient of Utilization

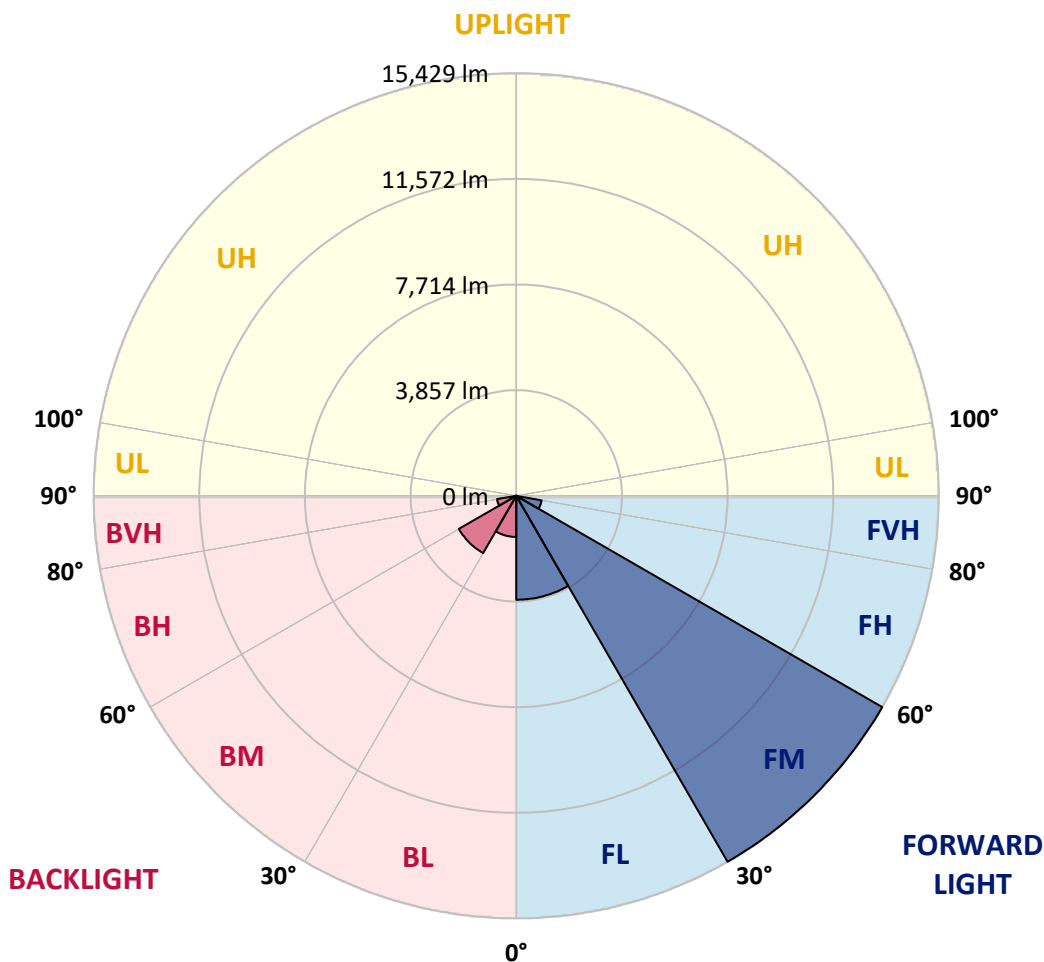


REPORT NUMBER: P646933
 CATALOG NUMBER: GALN-SA5C-835-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3794.3	15.3			
FM (30°-60°)	15428.8	62.0			
FH (60°-80°)	941.3	3.8			G1/1800
FVH (80°-90°)	34.8	0.1			G1/100
BL (0°-30°)	1502.0	6.0	B3/2500		
BM (30°-60°)	2418.7	9.7	B2/2500		
BH (60°-80°)	712.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	42.8	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: P646933

CATALOG NUMBER: GALN-SA5C-835-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9
2.5°	8256.0	8097.1	8115.1	8001.2	7878.2	7842.3	7716.4	7596.4	7506.5	7314.6	7137.8
5°	9023.4	8975.5	8903.5	8813.6	8720.7	8492.8	8363.9	8214.0	7884.3	7587.5	7293.6
7.5°	9134.3	9125.3	9164.3	9164.3	9197.3	9110.4	8927.5	8822.5	8471.8	7989.2	7443.6
10°	8354.9	8381.9	8570.7	8816.6	9158.4	9395.1	9365.1	9338.2	8954.5	8294.9	7620.5
12.5°	7734.4	7674.4	7785.3	7995.1	8507.8	9080.4	9467.1	9470.1	9371.2	8783.6	7749.4
15°	7383.6	7425.6	7455.6	7554.5	7941.2	8603.8	9284.3	9485.1	9919.7	9128.4	7953.2
17.5°	7608.5	7467.5	7461.5	7485.6	7683.4	8181.0	8945.5	9290.2	10219.6	9572.0	8205.0
20°	7902.3	7899.2	7815.3	7785.3	7782.3	8226.0	8723.6	9191.3	10378.4	10147.6	8459.8
22.5°	8417.9	8417.9	8280.0	8214.0	8073.1	8435.9	8753.6	9071.4	10642.2	10543.3	8582.8
25°	9281.2	9140.4	8903.5	8741.6	8660.7	8789.6	9071.4	9356.1	10873.1	10963.0	8837.6
27.5°	10078.6	9856.8	9739.9	9461.1	9353.2	9278.2	9536.1	9823.8	11142.9	11616.5	8975.5
30°	10984.0	10945.0	10735.2	10375.5	10108.6	9970.7	10207.6	10492.4	11637.5	12285.0	9293.2
32.5°	12602.8	12249.1	11964.2	11523.6	11088.9	10795.1	11028.9	11217.8	12458.9	12983.5	9641.0
35°	14350.5	14236.6	13744.9	12950.6	12285.0	12021.2	12159.1	12300.0	13415.2	14050.8	10225.5
37.5°	16068.3	15912.4	15507.7	14839.2	14029.8	13493.1	13592.1	13757.0	14488.4	15489.7	10939.1
40°	17303.4	17111.5	16907.6	16808.7	16005.3	15270.8	15213.9	15255.9	15939.4	16838.7	11730.4
42.5°	17393.3	17630.1	17693.1	18091.8	17902.9	17300.4	16949.6	16958.6	17324.3	18172.7	12530.9
45°	17204.5	16985.6	17450.3	18538.5	19162.0	19443.8	18853.2	18778.3	18181.7	18946.2	12929.6
47.5°	15222.9	15282.8	16068.3	17789.1	19590.7	20849.8	20711.9	20463.1	18640.4	18919.2	12866.6
50°	12033.2	12396.0	13124.4	15267.9	18391.6	21071.6	21884.1	21308.5	18367.6	18175.8	12225.1
52.5°	8013.1	8163.0	8642.7	11409.6	14788.2	18835.3	20535.0	20666.9	18115.8	17201.5	11412.7
55°	3567.4	3555.4	4229.9	5959.6	9278.2	14332.6	16778.8	17582.2	17147.5	16209.2	10621.2
57.5°	1510.9	1561.9	1837.6	2575.1	4562.7	8648.7	11367.7	12072.2	13187.4	13310.3	8148.1
60°	1022.3	1028.2	1103.2	1289.1	1909.6	4062.0	5962.6	6808.0	7605.4	7551.5	4322.9
62.5°	803.4	824.4	881.3	956.3	1133.2	1843.7	2668.1	3138.7	3189.7	2683.0	1639.8
65°	686.5	689.5	746.4	809.4	887.4	1073.2	1286.1	1310.0	1325.1	1277.1	1205.1
67.5°	566.6	572.6	617.6	689.5	761.5	821.4	881.3	911.3	980.3	1115.1	1097.2
70°	449.7	458.7	497.7	557.6	623.6	659.5	734.5	761.5	824.4	929.3	971.3
72.5°	341.8	344.8	377.7	419.7	479.7	515.6	578.6	608.5	650.5	740.5	779.4
75°	245.8	254.8	278.8	299.8	308.7	332.8	392.7	425.7	485.6	524.6	527.6
77.5°	128.9	134.9	140.9	140.9	170.9	215.9	254.8	272.8	314.8	344.8	329.7
80°	51.0	53.9	69.0	92.9	119.9	155.9	182.8	191.8	227.9	245.8	254.8
82.5°	30.0	33.0	44.9	65.9	86.9	111.0	131.9	140.9	164.9	185.9	191.8
85°	15.0	18.0	27.0	42.0	56.9	69.0	65.9	63.0	63.0	60.0	63.0
87.5°	6.0	6.0	9.0	9.0	9.0	12.0	15.0	15.0	15.0	18.0	18.0
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: P646933

CATALOG NUMBER: GALN-SA5C-835-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9	7011.9
2.5°	7020.8	6901.0	6790.0	6586.2	6364.4	6301.4	6043.6	5950.6	5884.7	5806.7	5782.8
5°	7056.9	6898.0	6541.3	6130.5	5803.8	5384.1	5108.3	4811.5	4595.7	4541.7	4526.7
7.5°	7131.8	6859.0	6244.4	5623.9	4955.4	4385.8	3951.1	3717.3	3510.4	3498.4	3477.5
10°	7215.7	6742.1	5920.7	4946.4	4092.0	3564.4	3303.6	3201.7	3150.7	3138.7	3132.7
12.5°	7284.7	6718.1	5558.0	4286.8	3480.4	3162.7	3084.8	3075.8	3096.8	3102.7	3114.7
15°	7314.6	6622.1	5120.3	3696.3	3099.7	2982.8	3015.8	3051.7	3066.8	3105.8	3075.8
17.5°	7371.6	6499.3	4580.6	3228.6	2886.9	2907.9	2964.8	3006.8	3030.8	3057.8	3018.8
20°	7401.6	6388.3	4074.0	2949.9	2812.0	2850.9	2928.9	2961.9	2991.8	3003.8	2958.9
22.5°	7374.6	6160.5	3627.3	2725.0	2740.0	2791.0	2859.9	2895.9	2877.9	2829.9	2803.0
25°	7302.6	5839.8	3162.7	2581.1	2638.1	2728.0	2782.0	2755.0	2722.0	2695.0	2686.0
27.5°	7299.7	5447.0	2826.9	2449.2	2551.2	2674.0	2656.1	2632.1	2647.1	2626.1	2602.1
30°	7314.6	5066.3	2551.2	2374.3	2488.2	2548.1	2569.1	2545.1	2563.2	2524.2	2536.1
32.5°	7236.7	4694.6	2371.2	2287.3	2413.2	2410.2	2479.2	2497.1	2455.2	2374.3	2386.3
35°	7269.7	4394.8	2218.4	2248.4	2329.3	2329.3	2383.3	2362.3	2251.4	2203.4	2215.4
37.5°	7497.5	4101.0	2143.5	2194.4	2248.4	2272.3	2254.3	2164.4	2137.4	2137.4	2143.5
40°	7713.4	3849.2	2098.4	2182.4	2173.5	2188.4	2056.5	2065.5	2065.5	2068.5	2053.5
42.5°	7905.2	3678.3	2062.5	2110.5	2125.5	2047.5	1966.6	1957.6	1978.6	1975.6	1963.5
45°	7974.2	3537.4	2011.5	2029.5	2041.5	1912.6	1873.6	1855.6	1879.6	1888.6	1900.6
47.5°	7710.4	3420.5	1954.6	1918.6	1894.6	1810.7	1759.7	1726.7	1756.7	1807.7	1819.7
50°	7371.6	3267.6	1864.6	1795.7	1744.8	1708.7	1672.8	1639.8	1660.8	1696.8	1687.8
52.5°	6871.0	3027.8	1750.7	1678.8	1591.8	1600.8	1567.9	1549.9	1561.9	1561.9	1552.8
55°	6157.5	2488.2	1558.9	1507.9	1435.9	1459.9	1465.9	1442.0	1417.9	1438.9	1421.0
57.5°	4202.9	1756.7	1391.0	1391.0	1319.0	1352.0	1349.0	1292.0	1235.1	1241.1	1229.1
60°	2431.2	1400.0	1283.1	1271.0	1196.1	1223.1	1229.1	1190.2	1103.2	1109.2	1097.2
62.5°	1382.0	1196.1	1121.2	1103.2	1088.2	1112.2	1112.2	1061.2	986.3	992.3	980.3
65°	1175.1	1109.2	1001.3	998.2	992.3	998.2	974.3	920.3	854.4	827.4	830.4
67.5°	1067.2	1025.3	920.3	893.3	875.4	872.3	827.4	776.4	746.4	722.5	719.5
70°	935.3	902.3	824.4	788.4	770.5	728.5	683.5	650.5	608.5	596.6	608.5
72.5°	740.5	737.4	707.5	668.5	629.5	596.6	557.6	512.6	473.6	464.6	443.6
75°	512.6	518.7	524.6	518.7	485.6	443.6	398.7	362.8	314.8	287.8	281.8
77.5°	335.8	344.8	353.8	341.8	320.8	281.8	251.8	206.9	170.9	149.9	146.9
80°	245.8	257.8	263.8	254.8	230.8	200.8	167.9	131.9	104.9	86.9	86.9
82.5°	188.9	200.8	206.9	191.8	167.9	143.9	119.9	92.9	72.0	56.9	53.9
85°	65.9	63.0	74.9	77.9	92.9	86.9	72.0	53.9	42.0	30.0	27.0
87.5°	18.0	18.0	21.0	21.0	18.0	15.0	15.0	15.0	12.0	9.0	9.0
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)