

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: P652579

Luminaire Tested: **GALN-SA8B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652579
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-SA8B-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 23500.9 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

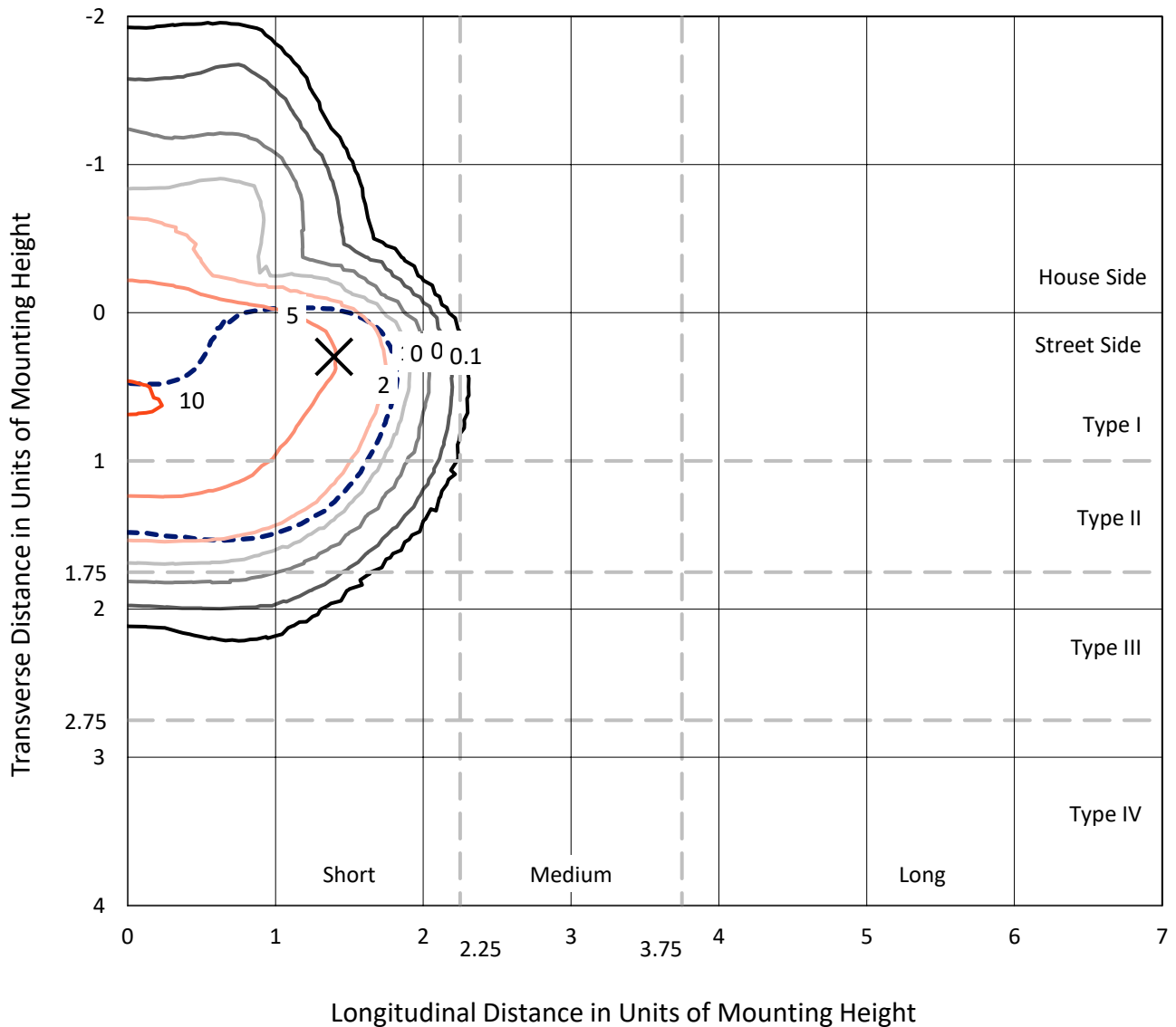
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652579
 CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

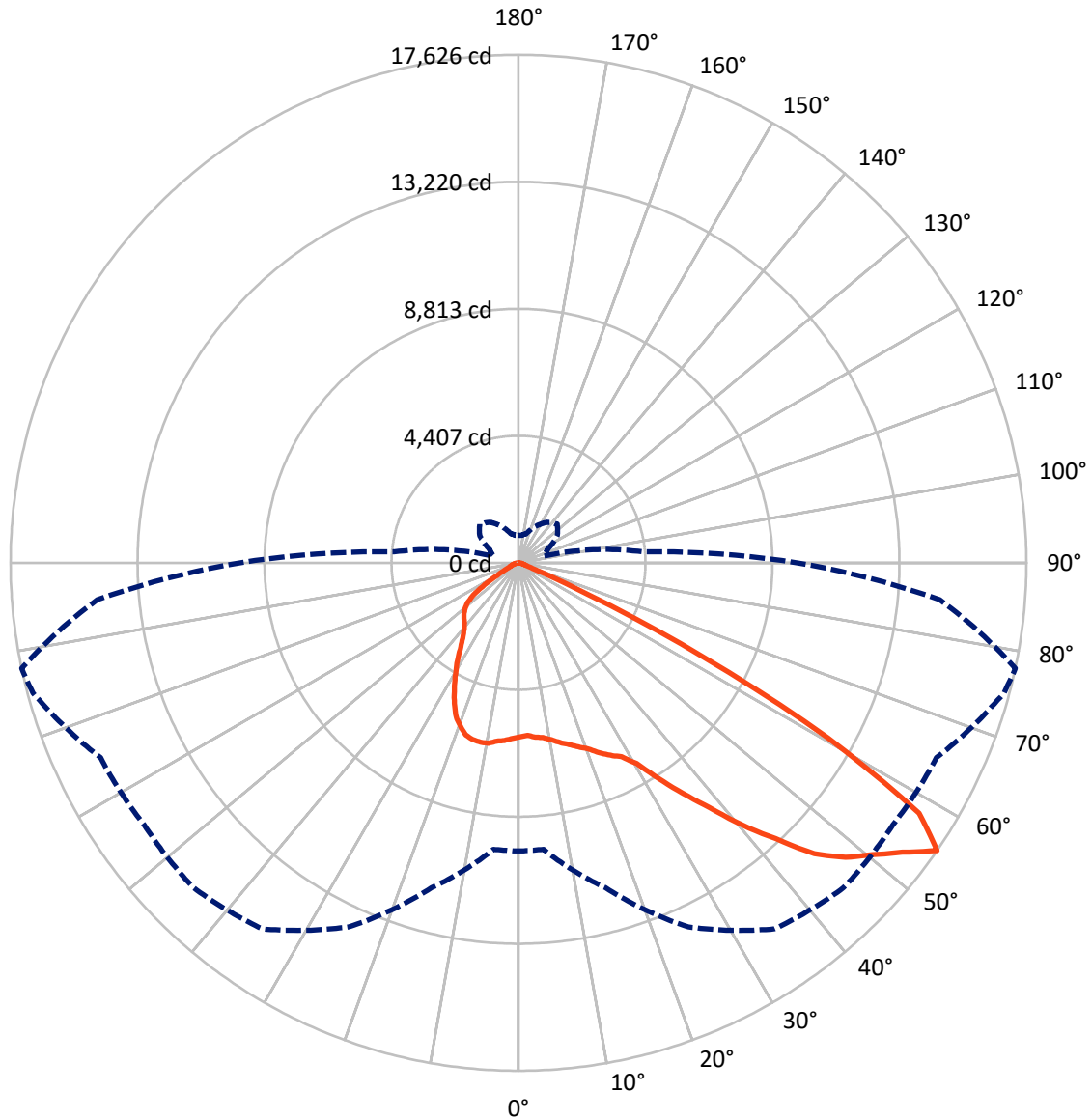
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

REPORT NUMBER: P652579
CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652579
 CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSBK

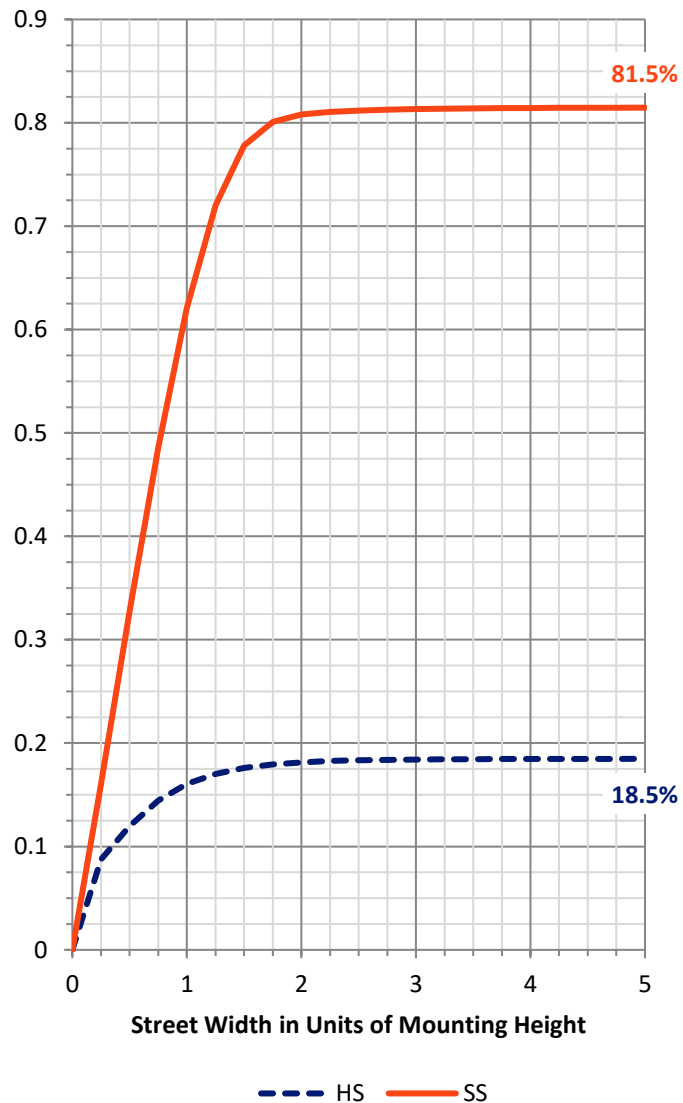
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.0	0.0	4365.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19135.9	0.0	19135.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	23500.9	0.0	23500.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.8	2.3
10°-20°	1425.8	6.1
20°-30°	2499.3	10.6
30°-40°	4120.9	17.5
40°-50°	5996.5	25.5
50°-60°	6794.7	28.9
60°-70°	1942.7	8.3
70°-80°	150.8	0.6
80°-90°	31.4	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°	23500.9	100.0
0°-180°	23500.9	100.0

Coefficient of Utilization



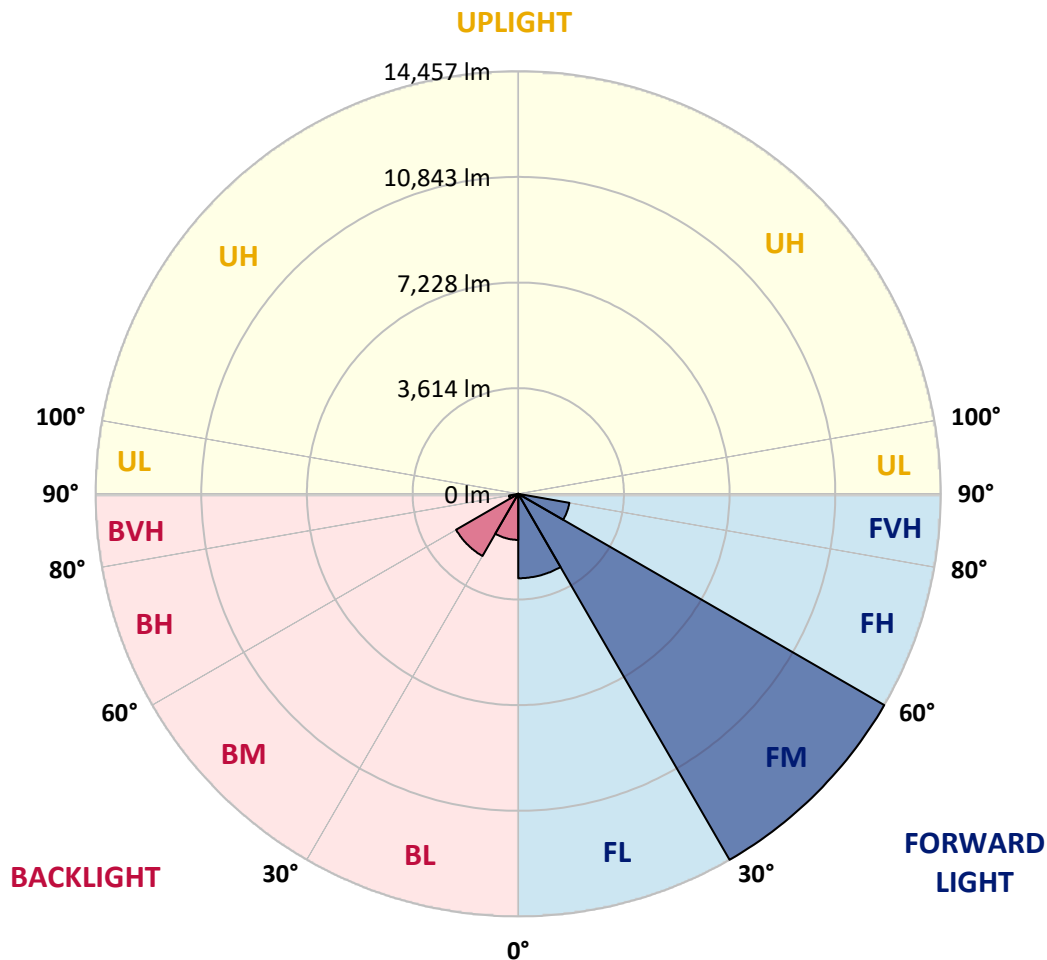
REPORT NUMBER: P652579
 CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2888.9	12.3			
FM (30°-60°)	14456.7	61.5			
FH (60°-80°)	1774.9	7.6			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1574.9	6.7	B3/2500		
BM (30°-60°)	2455.4	10.4	B2/2500		
BH (60°-80°)	318.6	1.4	B1/500		G1/500
BVH (80°-90°)	16.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P652579

CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1
2.5°	5680.8	5735.4	5743.8	5811.0	5806.8	5920.2	5953.9	5958.1	6033.7	5995.9	6092.5
5°	5521.1	5491.6	5479.0	5596.7	5630.3	5731.2	5815.2	5865.6	6021.1	6075.7	6176.6
7.5°	5378.2	5378.2	5386.6	5491.6	5479.0	5609.3	5697.5	5853.0	6079.9	6126.1	6248.0
10°	5239.6	5189.1	5252.1	5361.4	5453.9	5512.7	5697.5	5844.6	6109.4	6243.8	6411.9
12.5°	5168.1	5193.3	5201.8	5281.6	5382.4	5558.9	5659.8	5903.4	6319.4	6399.3	6579.9
15°	5617.7	5567.3	5445.5	5374.0	5458.1	5542.1	5794.2	6042.1	6428.7	6542.1	6743.8
17.5°	6138.7	6096.7	5995.9	5802.6	5613.5	5769.0	5966.5	6193.4	6546.3	6714.4	7012.7
20°	6819.4	6752.2	6651.4	6273.2	6109.4	5941.2	6151.3	6420.3	6739.6	6890.8	7197.6
22.5°	7630.4	7630.4	7403.5	6945.5	6605.1	6445.4	6533.7	6689.1	6953.9	7159.8	7462.3
25°	8474.9	8449.7	8243.8	7769.0	7193.4	7004.3	7105.1	7214.4	7285.8	7399.3	7601.0
27.5°	9441.3	9294.2	9033.8	8508.5	8000.1	7634.5	7743.8	7647.1	7558.9	7617.8	7907.7
30°	10096.8	10189.2	9857.3	9353.1	8874.1	8466.5	8487.5	8403.4	8000.1	8084.1	8256.4
32.5°	10777.4	10836.3	10651.4	10374.1	9895.1	9420.3	9248.1	9176.6	8874.1	8911.9	8743.8
35°	11344.7	11458.1	11294.3	11172.4	11033.8	10651.4	10176.6	10407.7	9920.3	9827.8	9390.9
37.5°	11865.7	11832.1	12025.4	11899.3	11869.9	11601.0	11080.0	11126.2	10798.4	10777.4	10273.2
40°	12332.1	12340.5	12605.2	12664.0	12546.4	12067.4	11311.1	11676.6	11941.4	11966.5	11319.4
42.5°	12718.7	12832.1	13059.0	13533.8	13357.4	12559.0	11550.5	11949.8	12933.0	13088.4	12311.1
45°	13054.8	13285.9	13567.4	13991.8	13891.0	13256.5	12147.2	12512.7	13991.8	14399.3	13243.9
47.5°	13075.8	13378.3	13685.1	14315.3	14441.4	13630.4	12764.9	13403.5	14832.1	15273.3	13924.5
50°	12991.8	13151.5	13764.9	14449.8	14735.5	14239.6	13630.4	14151.4	15647.2	15924.6	14269.1
52.5°	11995.9	12117.8	13348.9	14575.8	15264.9	14928.8	14777.5	15193.5	16479.2	16685.1	14592.6
55°	10000.2	9979.1	11672.4	13941.3	15508.6	15949.8	15857.4	16004.4	17441.4	17626.3	14672.4
57.5°	6840.4	7222.8	8685.0	11609.4	14017.0	15710.3	15806.9	15563.2	16319.5	16391.0	12790.1
60°	3689.1	3848.8	5025.3	7748.0	10672.4	12802.7	13054.8	12613.6	12554.8	12353.1	9130.4
62.5°	1466.4	1546.3	2214.4	3836.2	5815.2	7781.6	8323.6	8143.0	7756.4	7227.0	4726.9
65°	697.5	747.9	1100.9	1794.1	2579.9	3243.7	3785.8	3953.8	2916.0	2626.1	1558.9
67.5°	474.8	512.6	802.6	1025.3	920.2	962.2	1252.1	1163.9	684.9	584.1	432.8
70°	361.4	386.5	642.9	697.5	411.8	289.9	323.5	302.5	281.5	285.7	281.5
72.5°	256.3	277.3	470.6	411.8	180.6	134.5	172.2	205.9	205.9	205.9	201.7
75°	155.5	176.4	273.1	159.7	71.4	71.4	109.2	138.7	147.1	151.3	142.9
77.5°	79.8	100.8	92.4	46.3	46.3	54.6	79.8	96.6	105.0	105.0	100.8
80°	16.8	16.8	16.8	25.2	46.3	58.8	79.8	88.2	100.8	100.8	92.4
82.5°	0.0	4.2	12.6	25.2	42.0	54.6	75.6	88.2	100.8	105.0	96.6
85°	0.0	4.2	8.4	16.8	29.4	33.6	29.4	25.2	25.2	25.2	25.2
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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: P652579

CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1	6042.1
2.5°	6101.0	6113.6	6092.5	6088.3	6071.5	6121.9	6000.1	5970.7	6046.3	5974.9	5991.7
5°	6180.8	6210.2	6172.4	6109.4	6016.9	5874.0	5752.2	5592.5	5516.9	5462.3	5453.9
7.5°	6239.5	6260.6	6222.8	6021.1	5743.8	5382.4	5113.5	4916.1	4760.6	4714.3	4638.7
10°	6479.1	6483.3	6294.2	5848.8	5306.8	4832.0	4420.2	4117.7	3962.2	3865.6	3823.6
12.5°	6638.8	6630.4	6248.0	5508.5	4785.8	4155.5	3684.9	3319.3	3176.5	3130.3	3100.9
15°	6840.4	6794.2	6138.7	5159.7	4113.5	3432.8	3008.4	2756.4	2743.8	2714.3	2743.8
17.5°	7000.1	6869.9	5979.1	4525.3	3470.6	2827.8	2550.4	2567.2	2600.9	2630.3	2634.5
20°	7260.6	6991.7	5613.5	3970.6	2873.9	2424.4	2420.2	2495.8	2579.9	2613.5	2647.1
22.5°	7458.1	7042.1	5222.8	3378.2	2386.6	2260.5	2331.9	2445.4	2508.5	2542.1	2592.5
25°	7529.5	6903.4	4701.8	2785.7	2151.3	2184.9	2294.2	2369.8	2449.6	2487.4	2466.4
27.5°	7601.0	6832.0	4079.9	2294.2	2025.2	2134.5	2226.9	2302.6	2327.7	2378.2	2411.8
30°	7773.2	6584.1	3521.0	1983.2	1962.2	2100.9	2168.1	2193.3	2260.5	2290.0	2290.0
32.5°	7911.9	6487.5	2928.6	1836.2	1953.8	2117.6	2126.0	2126.0	2134.5	2113.4	2105.1
35°	8197.6	6155.5	2399.2	1747.9	1949.6	2121.8	2142.9	2071.5	1878.2	1802.5	1781.6
37.5°	8550.5	5941.2	2008.4	1726.9	1979.0	2172.3	2205.9	1937.0	1684.9	1563.1	1542.1
40°	8979.1	5790.0	1752.1	1718.5	2046.2	2290.0	2189.1	1832.0	1504.2	1327.8	1319.4
42.5°	9479.1	5651.4	1579.8	1714.3	2130.3	2411.8	2172.3	1743.7	1319.4	1201.7	1218.5
45°	9878.3	5575.7	1462.2	1684.9	2159.7	2483.2	2184.9	1588.2	1243.8	1168.1	1176.5
47.5°	10189.2	5416.0	1365.5	1634.5	2155.5	2508.5	2071.5	1525.2	1205.9	1226.9	1247.9
50°	10197.6	5201.8	1243.8	1525.2	2092.5	2462.2	1941.2	1466.4	1197.5	1285.7	1327.8
52.5°	10084.2	4899.2	1113.5	1369.7	1945.4	2302.6	1823.5	1441.2	1159.7	1151.2	1201.7
55°	9680.8	4332.0	895.0	1109.3	1642.9	1899.1	1718.5	1395.0	1046.2	949.6	958.0
57.5°	7823.7	3105.1	659.7	794.2	1163.9	1390.8	1550.5	1373.9	941.2	806.8	811.0
60°	4844.6	1760.5	483.2	542.0	718.5	844.5	1256.3	1277.3	840.3	680.7	672.3
62.5°	2487.4	869.8	374.0	382.3	441.2	495.8	861.4	1071.4	760.5	647.1	647.1
65°	831.9	428.6	327.7	294.1	294.1	306.7	521.0	743.7	642.9	542.0	542.0
67.5°	357.2	319.3	285.7	256.3	235.3	222.7	294.1	432.8	479.0	411.8	394.9
70°	277.3	269.0	247.9	214.3	184.9	168.0	172.2	222.7	273.1	264.7	256.3
72.5°	205.9	205.9	197.5	168.0	142.9	121.9	113.5	117.7	130.3	134.5	138.7
75°	142.9	147.1	147.1	130.3	105.0	88.2	75.6	63.0	50.5	42.0	37.8
77.5°	96.6	100.8	109.2	96.6	79.8	58.8	46.3	33.6	21.0	8.4	8.4
80°	84.0	96.6	105.0	96.6	84.0	63.0	46.3	25.2	12.6	0.0	0.0
82.5°	88.2	96.6	109.2	92.4	79.8	58.8	46.3	29.4	12.6	4.2	0.0
85°	21.0	21.0	25.2	29.4	37.8	42.0	33.6	21.0	12.6	4.2	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)