

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: P648142

Luminaire Tested: **GALN-SA9A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24215.8 lumens
Efficiency: N/A
Efficacy: 88.4 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

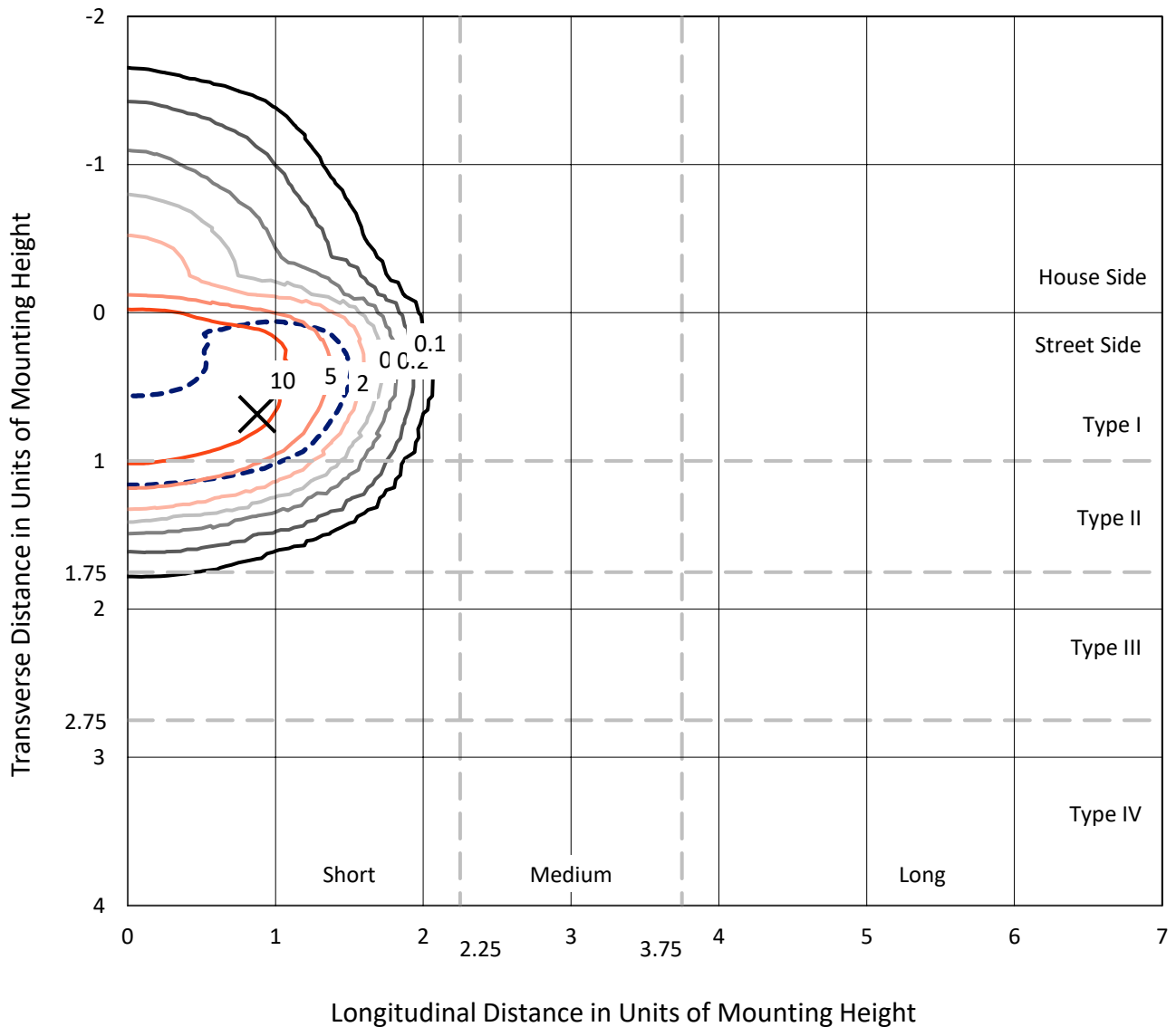
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648142
 CATALOG NUMBER: GALN-SA9A-835-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

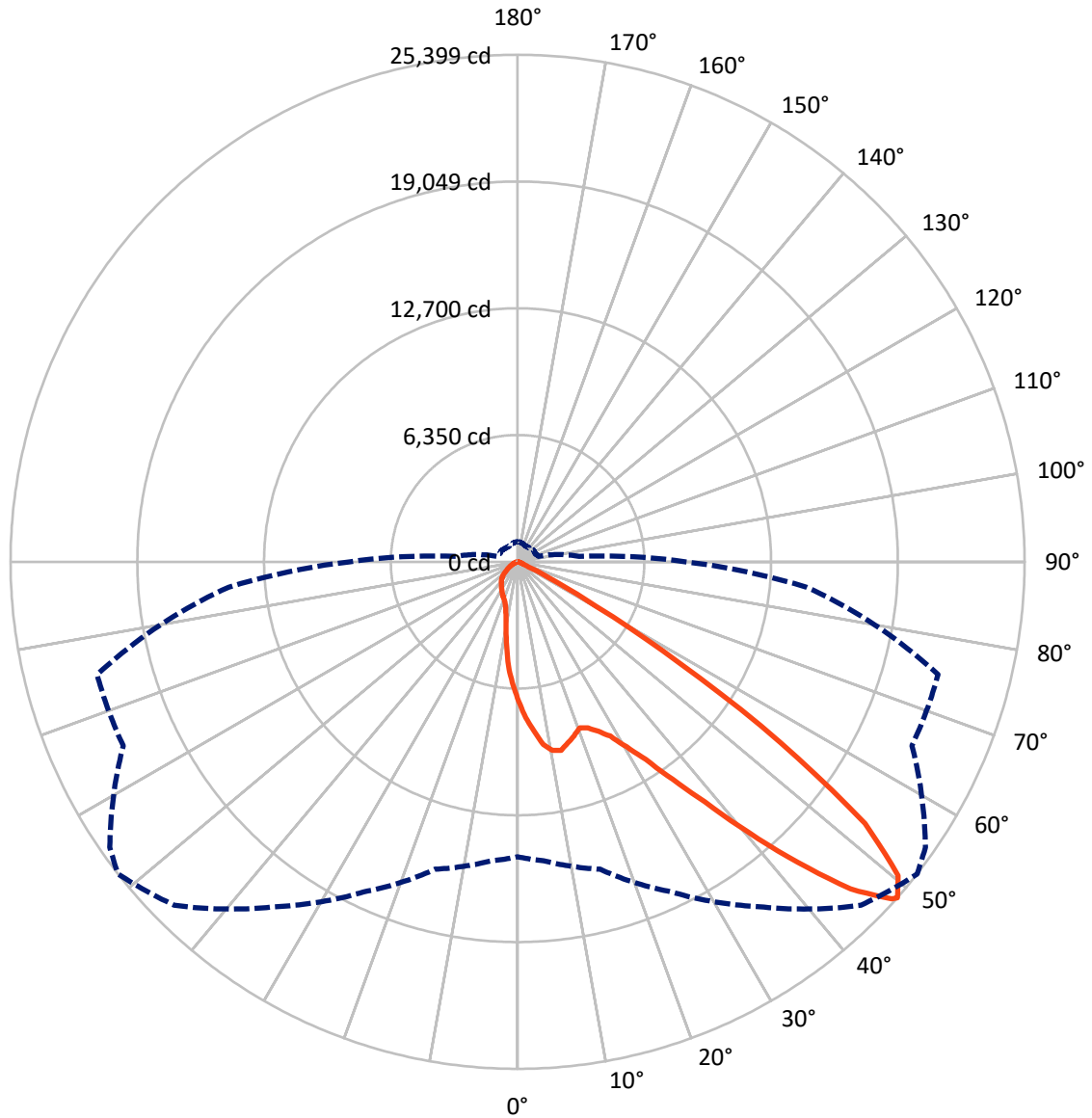
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

REPORT NUMBER: P648142
CATALOG NUMBER: GALN-SA9A-835-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical



REPORT NUMBER: P648142
 CATALOG NUMBER: GALN-SA9A-835-U-AFL-GRSBK

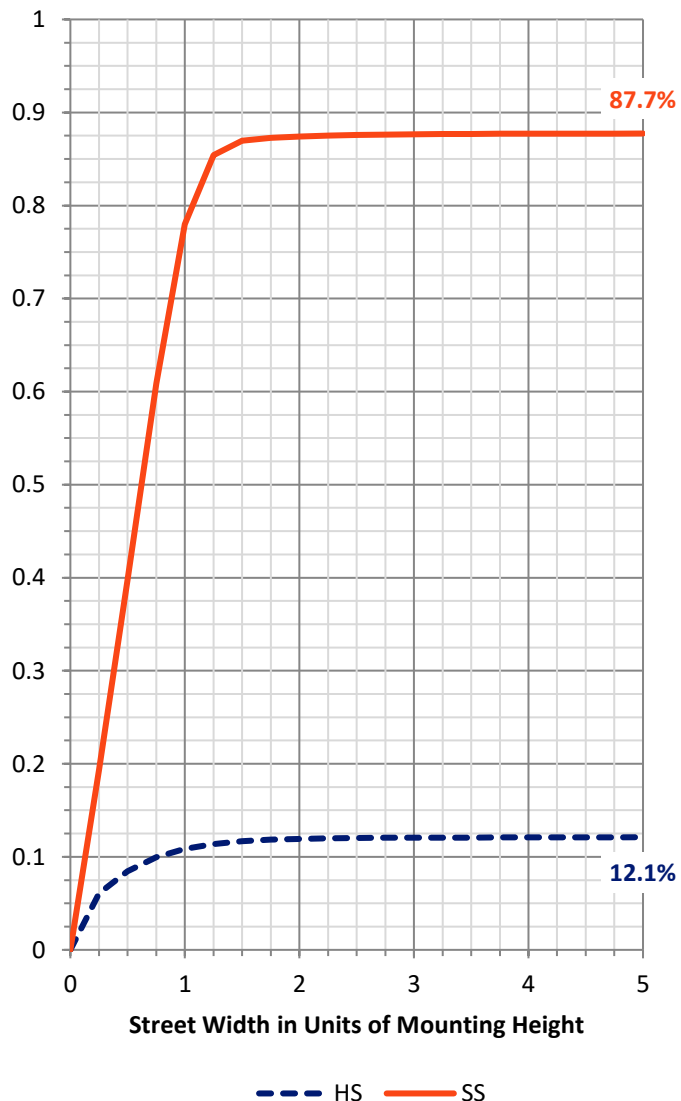
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2948.5	0.0	2948.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21267.4	0.0	21267.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	24215.8	0.0	24215.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.1	2.6
10°-20°	1672.7	6.9
20°-30°	2856.1	11.8
30°-40°	5259.4	21.7
40°-50°	8167.9	33.7
50°-60°	4915.7	20.3
60°-70°	568.5	2.3
70°-80°	110.0	0.5
80°-90°	25.4	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°	24215.8	100.0
0°-180°	24215.8	100.0

Coefficient of Utilization

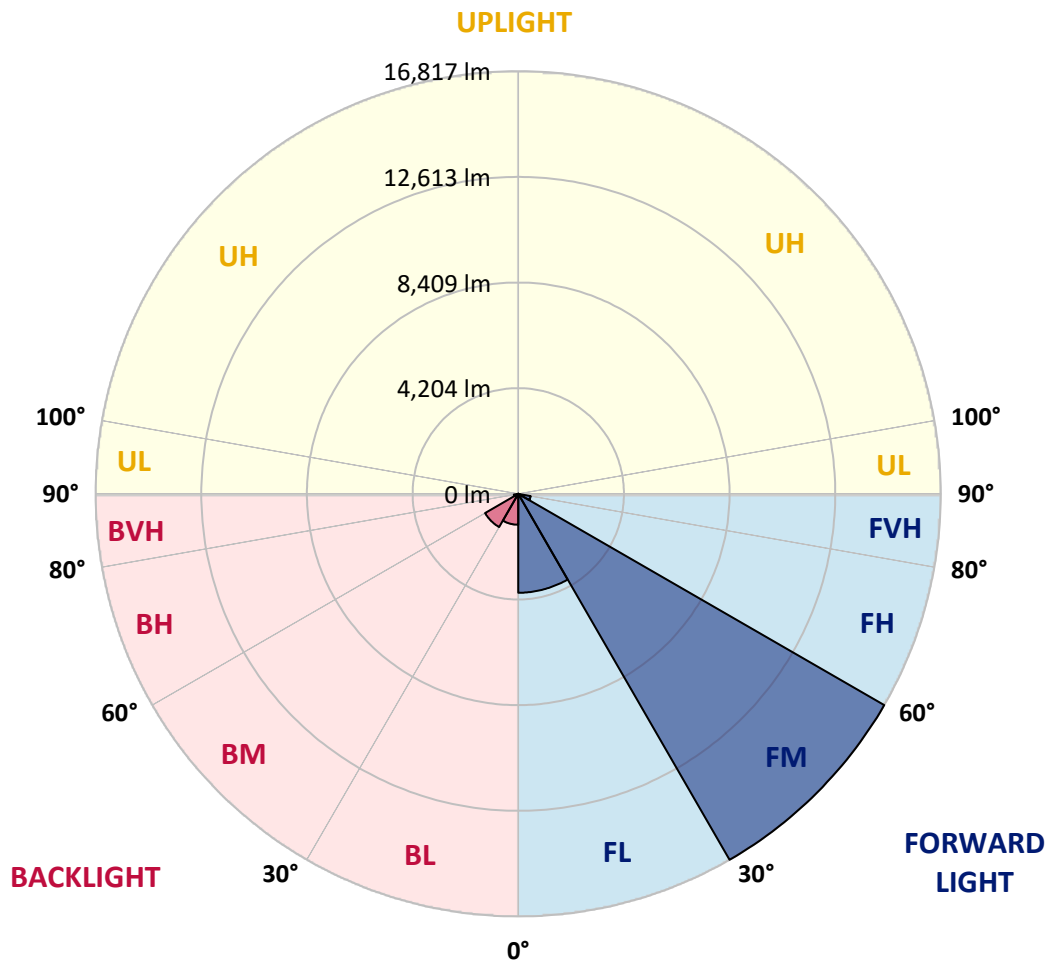


REPORT NUMBER: P648142
 CATALOG NUMBER: GALN-SA9A-835-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3937.2	16.3			
FM (30°-60°)	16817.4	69.4			
FH (60°-80°)	500.6	2.1			G0/660
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1231.7	5.1	B3/2500		
BM (30°-60°)	1525.5	6.3	B2/2500		
BH (60°-80°)	177.9	0.7	B1/500		G1/500
BVH (80°-90°)	13.3	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: P648142

CATALOG NUMBER: GALN-SA9A-835-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1
2.5°	8475.7	8281.6	8299.3	8172.2	8098.0	7978.1	7815.7	7783.9	7607.4	7367.3	7123.7
5°	9238.3	9192.4	9252.4	9068.9	9075.9	8878.2	8497.0	8504.0	8098.0	7706.2	7328.5
7.5°	9287.7	9181.8	9241.8	9404.2	9499.5	9464.2	9248.9	9061.7	8677.0	8101.6	7550.9
10°	8316.9	8518.1	8581.7	8849.9	9231.2	9633.6	9609.0	9619.5	9298.3	8546.4	7741.5
12.5°	7734.5	7600.3	7815.7	7978.1	8553.4	9333.6	9690.1	9767.8	9792.5	8977.0	7932.1
15°	7469.7	7469.7	7505.0	7550.9	7967.4	8687.6	9414.8	9640.7	10173.8	9541.9	8232.2
17.5°	7635.6	7628.5	7677.9	7582.7	7738.0	8292.2	9160.6	9418.3	10600.9	10096.1	8468.7
20°	8140.4	8165.1	8133.3	7858.0	7868.6	8285.2	8878.2	9284.2	10890.4	10576.2	8782.9
22.5°	8842.9	8857.1	8677.0	8376.9	8288.7	8493.4	9040.6	9351.2	11123.4	11151.6	8878.2
25°	9654.9	9598.3	9563.0	9139.4	8871.2	9047.6	9407.7	9587.8	11268.1	11645.8	9150.1
27.5°	10781.0	10668.0	10452.7	10074.9	9877.2	9626.6	9884.3	10180.8	11681.1	12337.7	9446.6
30°	12443.6	12344.8	11924.7	11437.5	10918.6	10671.5	10752.7	10915.1	12426.0	13139.1	9838.4
32.5°	14946.5	14738.2	14131.0	13202.6	12496.5	11815.2	11794.1	11967.1	13093.2	14247.5	10304.4
35°	17703.5	17639.9	16746.8	15790.1	14424.0	13372.0	13389.7	13481.5	14371.0	15701.9	10915.1
37.5°	19535.6	19885.1	19316.7	18289.5	17142.1	15638.4	15257.1	15288.9	16125.5	17424.6	12016.5
40°	20951.1	20654.6	20721.7	20481.6	19698.0	18674.2	17830.6	17664.6	18155.3	19330.9	13110.8
42.5°	20333.4	20347.5	20760.5	21328.8	21523.0	21448.9	20587.6	20273.4	19892.1	20891.1	14152.2
45°	18589.5	18953.1	19489.7	20993.5	22313.8	23552.9	23383.4	22860.9	21092.4	22126.7	14752.3
47.5°	15807.8	15793.7	16672.7	18628.4	21561.9	24463.6	25233.2	24866.0	21943.1	21989.0	14628.7
48°	14780.5	15034.7	15942.0	18243.6	21085.3	24329.5	25399.1	24936.7	21798.4	21805.5	14522.8
50°	10925.7	10879.8	12009.4	14833.5	18833.1	22860.9	24700.1	25060.2	21794.9	20877.1	13781.5
52.5°	5771.7	5969.4	6791.9	9326.5	13315.5	18709.6	21787.8	22349.1	21025.3	19359.0	12715.5
55°	2453.5	2216.9	2848.8	4211.4	7490.9	12500.1	15984.3	17234.0	17777.6	17131.6	11123.4
57.5°	875.5	956.7	1101.4	1585.0	3148.8	6841.3	9531.3	10502.1	12316.5	12570.7	7579.1
60°	561.3	571.9	617.8	727.2	1182.6	2637.0	4522.1	5295.1	6117.7	6315.4	3537.1
62.5°	434.2	437.7	458.9	476.5	561.3	1023.7	1698.0	2012.2	2089.8	1796.8	928.4
65°	363.6	367.1	374.2	374.2	398.9	480.1	593.0	653.1	635.4	628.4	526.0
67.5°	278.9	286.0	300.0	300.0	314.2	293.0	328.3	349.5	395.3	480.1	448.3
70°	218.8	222.4	233.0	240.1	240.1	211.8	236.5	257.7	289.5	356.6	353.0
72.5°	169.4	176.5	183.5	183.5	173.0	144.7	169.4	187.1	208.3	247.1	240.1
75°	130.6	130.6	134.1	109.5	84.7	74.2	102.3	123.6	155.3	162.4	134.1
77.5°	35.3	38.8	35.3	31.8	35.3	52.9	67.1	77.7	98.8	98.8	88.2
80°	0.0	3.5	10.6	21.2	35.3	49.4	60.0	67.1	77.7	84.7	81.2
82.5°	0.0	3.5	10.6	21.2	31.8	38.8	52.9	56.5	63.6	74.2	74.2
85°	0.0	3.5	7.0	14.1	21.2	24.7	24.7	21.2	21.2	17.6	14.1
87.5°	0.0	0.0	3.5	7.0	7.0	10.6	10.6	10.6	10.6	10.6	10.6
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: P648142

CATALOG NUMBER: GALN-SA9A-835-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1	6993.1
2.5°	7028.4	6919.0	6753.1	6491.9	6241.2	6078.8	5923.5	5750.5	5655.2	5648.2	5595.2
5°	7113.2	6866.0	6470.7	6022.4	5542.2	5129.3	4712.7	4440.9	4197.3	4063.1	4038.4
7.5°	7159.0	6837.8	6198.9	5446.9	4628.0	3953.7	3487.7	3145.3	3011.2	2912.4	2908.8
10°	7254.3	6788.4	5792.9	4684.5	3671.3	2990.0	2668.8	2513.4	2439.3	2411.1	2368.7
12.5°	7325.0	6696.6	5376.3	3900.7	2901.7	2478.1	2336.9	2301.6	2305.2	2319.2	2301.6
15°	7423.8	6615.4	4815.1	3201.8	2435.8	2231.0	2231.0	2238.0	2287.5	2294.6	2291.1
17.5°	7416.7	6456.5	4236.1	2637.0	2153.3	2125.1	2135.7	2202.8	2234.5	2245.2	2220.4
20°	7501.5	6308.3	3639.5	2252.2	1994.5	2036.9	2107.4	2125.1	2164.0	2171.0	2142.8
22.5°	7476.8	5937.6	3085.3	1948.7	1874.5	1955.7	2026.2	2047.5	2036.9	2015.7	2012.2
25°	7430.8	5619.9	2577.0	1747.4	1786.3	1874.5	1941.5	1902.7	1881.5	1885.1	1888.6
27.5°	7349.7	5217.5	2156.9	1606.2	1666.2	1796.8	1793.3	1779.1	1800.4	1782.7	1800.4
30°	7335.5	4815.1	1810.9	1479.1	1578.0	1673.3	1680.3	1705.1	1729.7	1698.0	1729.7
32.5°	7356.8	4373.8	1563.8	1401.4	1525.0	1528.6	1606.2	1630.9	1613.3	1542.7	1549.7
35°	7519.1	4034.9	1383.8	1359.1	1440.3	1443.8	1517.9	1486.1	1408.5	1366.2	1390.8
37.5°	7861.6	3752.5	1299.1	1320.3	1327.3	1373.2	1376.7	1313.2	1320.3	1316.7	1330.9
40°	8299.3	3537.1	1239.1	1285.0	1277.9	1309.6	1182.6	1217.9	1249.7	1260.2	1267.3
42.5°	8599.3	3381.9	1200.3	1228.4	1214.4	1157.9	1087.3	1122.6	1147.3	1186.1	1193.2
45°	8733.5	3258.3	1154.4	1129.6	1129.6	1027.3	999.0	1006.1	1062.5	1104.9	1097.8
47.5°	8514.6	3138.3	1073.2	999.0	1023.7	939.0	907.3	907.3	967.2	1020.2	1009.6
48°	8429.9	3088.9	1076.7	970.8	988.5	924.9	893.1	886.0	953.1	1002.6	1002.6
50°	8009.8	2905.2	984.9	893.1	857.8	850.7	829.6	836.6	879.0	924.9	924.9
52.5°	7190.8	2509.9	833.1	766.0	702.5	744.9	755.4	741.3	762.5	804.8	801.3
55°	6001.1	1927.4	667.2	635.4	586.0	631.9	653.1	635.4	614.3	646.0	646.0
57.5°	3844.3	1037.9	533.1	540.1	490.7	536.6	554.2	511.8	473.0	497.8	494.2
60°	1733.2	621.3	437.7	427.1	395.3	448.3	476.5	427.1	374.2	391.8	409.5
62.5°	649.6	441.3	331.8	324.8	317.7	367.1	381.2	342.4	289.5	300.0	303.6
65°	476.5	388.3	264.7	240.1	254.2	289.5	282.4	243.6	208.3	208.3	215.3
67.5°	406.0	338.9	215.3	187.1	187.1	190.7	176.5	155.3	144.7	151.8	158.9
70°	317.7	268.3	169.4	144.7	130.6	116.5	102.3	98.8	88.2	98.8	95.3
72.5°	204.8	180.0	130.6	109.5	98.8	81.2	67.1	63.6	52.9	49.4	49.4
75°	109.5	109.5	102.3	88.2	77.7	63.6	52.9	42.4	28.3	21.2	21.2
77.5°	77.7	84.7	91.8	84.7	70.6	52.9	42.4	28.3	14.1	7.0	7.0
80°	74.2	84.7	91.8	81.2	70.6	52.9	38.8	21.2	10.6	3.5	3.5
82.5°	67.1	77.7	84.7	74.2	63.6	45.9	35.3	21.2	10.6	3.5	3.5
85°	14.1	17.6	21.2	21.2	24.7	31.8	24.7	17.6	7.0	3.5	3.5
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	7.0	7.0	3.5	3.5	3.5
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)