

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: P648124

Luminaire Tested: **GALN-SA8A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648124
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-SA8A-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 17585.4 lumens
Efficiency: N/A
Efficacy: 72.1 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

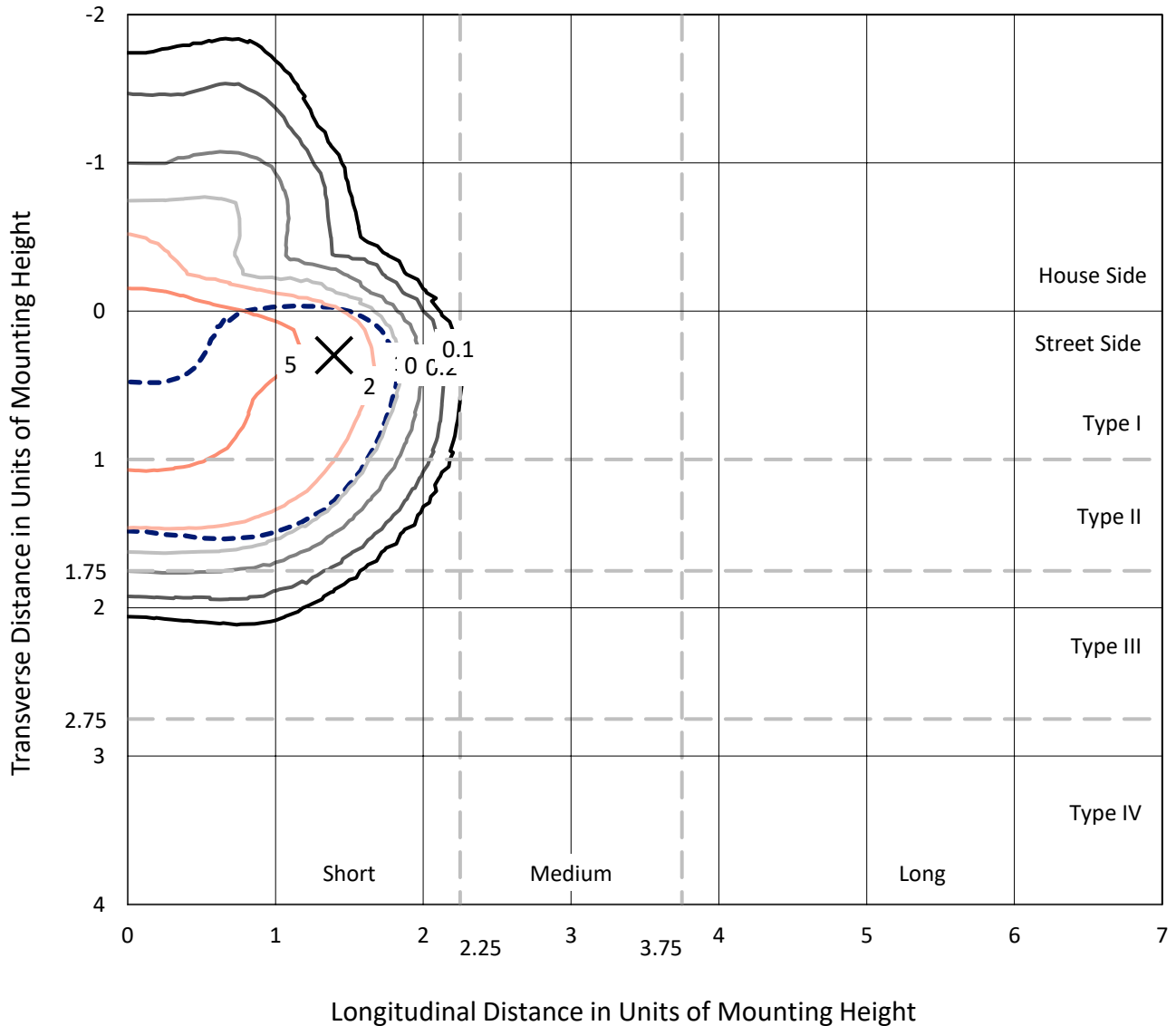
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648124
 CATALOG NUMBER: GALN-SA8A-835-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

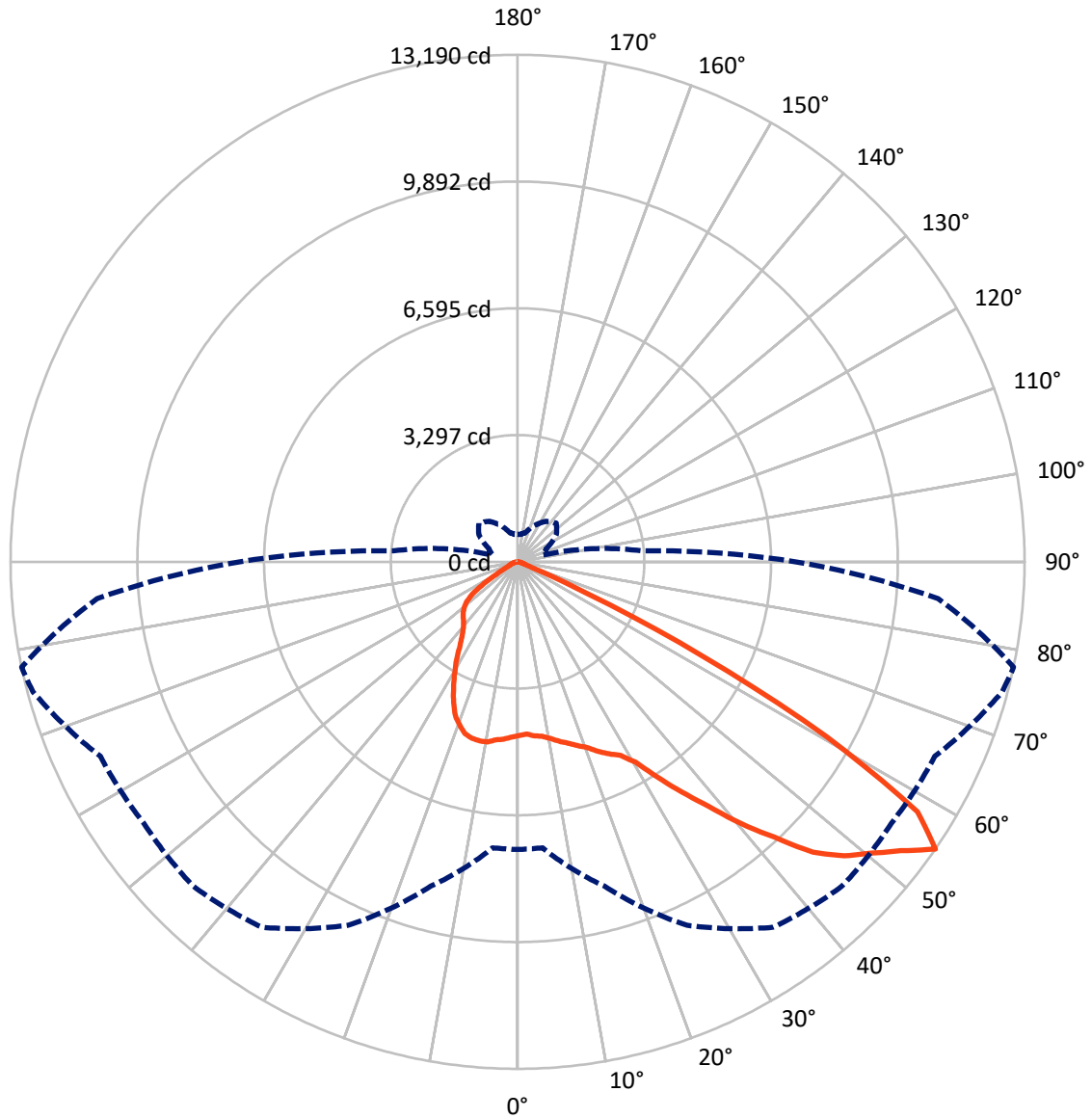
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P648124
CATALOG NUMBER: GALN-SA8A-835-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648124
 CATALOG NUMBER: GALN-SA8A-835-U-T3R-GRSBK

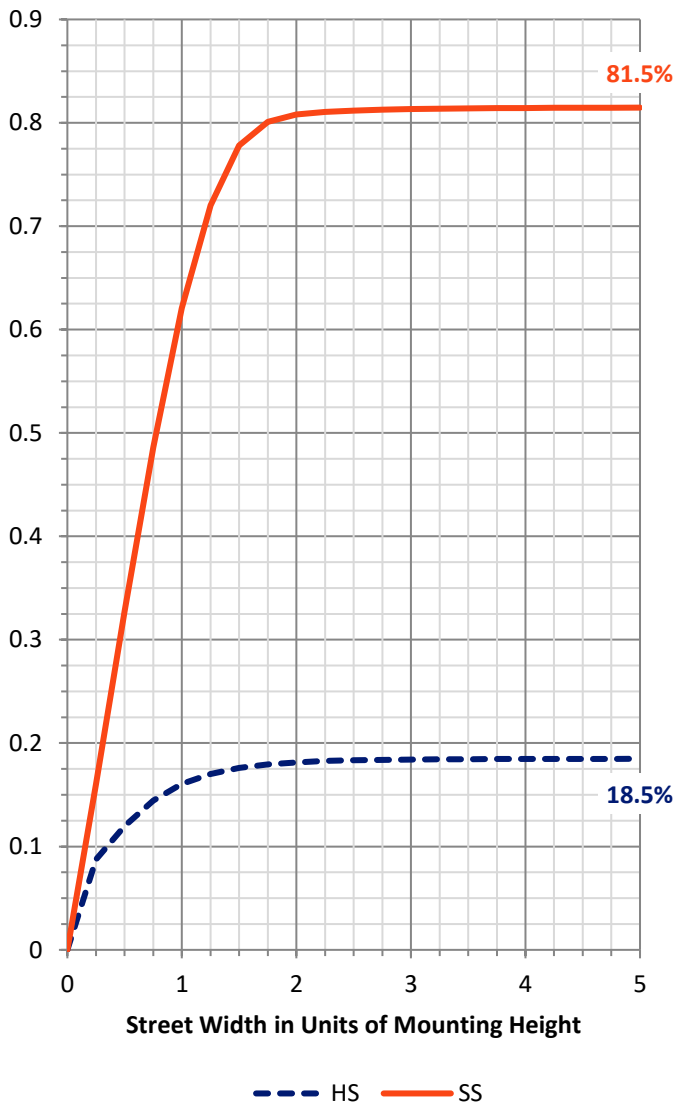
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3266.3	0.0	3266.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14319.1	0.0	14319.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	17585.4	0.0	17585.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	2.3
10°-20°	1066.9	6.1
20°-30°	1870.2	10.6
30°-40°	3083.7	17.5
40°-50°	4487.1	25.5
50°-60°	5084.3	28.9
60°-70°	1453.7	8.3
70°-80°	112.9	0.6
80°-90°	23.5	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°	17585.4	100.0
0°-180°	17585.4	100.0



REPORT NUMBER: P648124

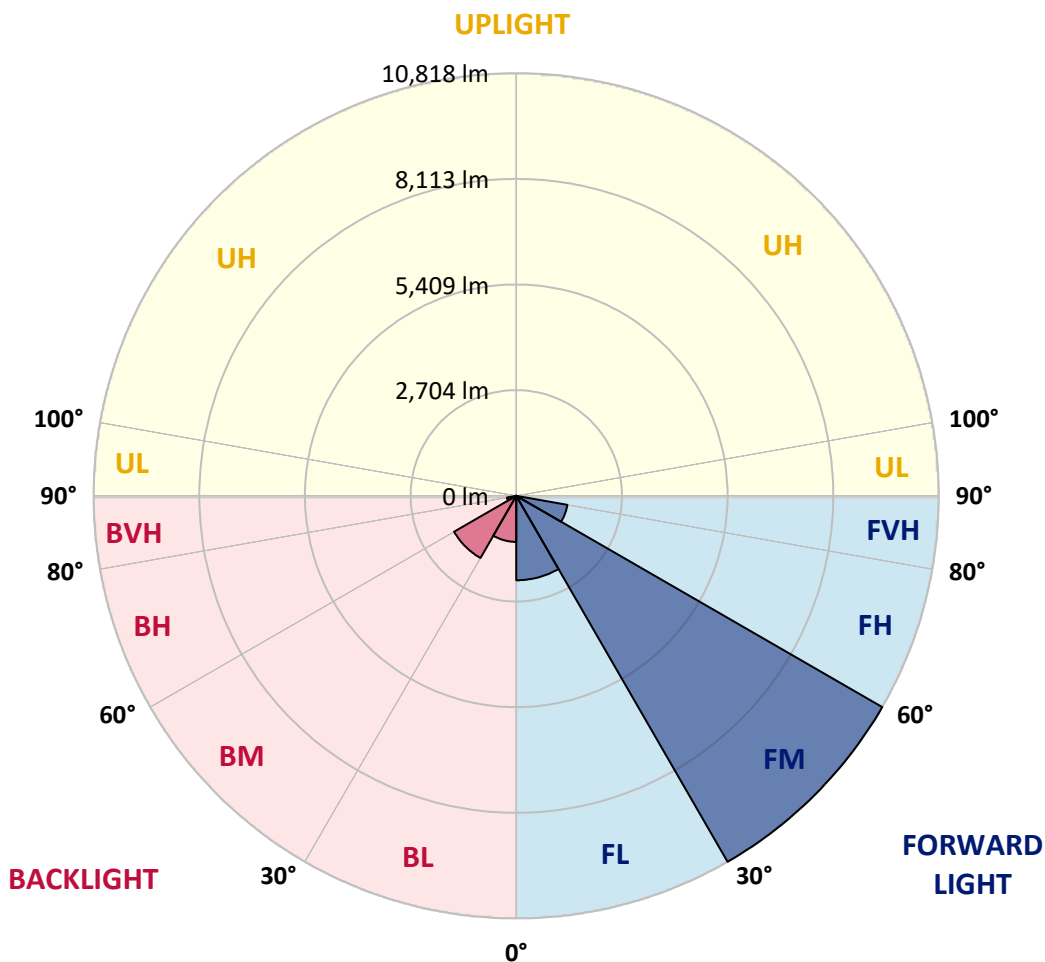
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2161.7	12.3			
FM (30°-60°)	10817.8	61.5			
FH (60°-80°)	1328.2	7.6			G1/1800
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1178.5	6.7	B3/2500		
BM (30°-60°)	1837.3	10.4	B2/2500		
BH (60°-80°)	238.4	1.4	B1/500		G1/500
BVH (80°-90°)	12.0	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: P648124

CATALOG NUMBER: GALN-SA8A-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2
2.5°	4250.8	4291.7	4298.0	4348.3	4345.2	4430.1	4455.2	4458.3	4514.9	4486.7	4558.9
5°	4131.3	4109.3	4099.9	4188.0	4213.1	4288.6	4351.4	4389.2	4505.5	4546.3	4621.8
7.5°	4024.5	4024.5	4030.7	4109.3	4099.9	4197.3	4263.4	4379.7	4549.5	4584.1	4675.3
10°	3920.7	3883.0	3930.1	4011.9	4081.1	4125.1	4263.4	4373.4	4571.5	4672.2	4797.9
12.5°	3867.2	3886.1	3892.4	3952.1	4027.6	4159.6	4235.1	4417.5	4728.7	4788.4	4923.7
15°	4203.7	4166.0	4074.7	4021.3	4084.2	4147.1	4335.7	4521.2	4810.4	4895.4	5046.3
17.5°	4593.5	4562.1	4486.7	4342.0	4200.5	4316.8	4464.6	4634.4	4898.5	5024.3	5247.5
20°	5102.9	5052.5	4977.1	4694.2	4571.5	4445.8	4602.9	4804.2	5043.1	5156.3	5385.9
22.5°	5709.7	5709.7	5539.9	5197.2	4942.5	4823.0	4889.1	5005.4	5203.5	5357.5	5583.9
25°	6341.7	6322.8	6168.7	5813.5	5382.7	5241.2	5316.6	5398.4	5451.9	5536.7	5687.7
27.5°	7064.8	6954.8	6759.8	6366.8	5986.3	5712.8	5794.6	5722.2	5656.2	5700.2	5917.2
30°	7555.2	7624.5	7376.1	6998.8	6640.3	6335.3	6351.1	6288.2	5986.3	6049.2	6178.2
32.5°	8064.6	8108.7	7970.3	7762.8	7404.4	7049.0	6920.2	6866.8	6640.3	6668.7	6542.9
35°	8489.1	8573.9	8451.3	8360.2	8256.4	7970.3	7615.0	7788.0	7423.2	7354.0	7027.0
37.5°	8878.9	8853.8	8998.4	8904.1	8882.1	8680.9	8291.0	8325.6	8080.3	8064.6	7687.3
40°	9228.0	9234.2	9432.3	9476.3	9388.2	9029.9	8463.9	8737.4	8935.5	8954.4	8470.2
42.5°	9517.2	9602.1	9771.8	10127.2	9995.1	9397.7	8643.1	8941.8	9677.6	9793.8	9212.2
45°	9768.7	9941.7	10152.3	10469.9	10394.4	9919.7	9089.6	9363.1	10469.9	10774.9	9910.2
47.5°	9784.4	10010.8	10240.3	10711.9	10806.3	10199.4	9551.7	10029.7	11098.7	11428.8	10419.5
50°	9721.6	9841.1	10300.1	10812.5	11026.4	10655.4	10199.4	10589.3	11708.6	11916.2	10677.4
52.5°	8976.4	9067.6	9988.8	10906.9	11422.5	11171.0	11057.8	11369.1	12331.2	12485.2	10919.5
55°	7483.0	7467.2	8734.3	10432.1	11604.8	11935.0	11865.8	11975.9	13051.1	13189.5	10979.2
57.5°	5118.6	5404.7	6498.8	8687.2	10488.8	11755.8	11828.1	11645.7	12211.7	12265.1	9570.6
60°	2760.5	2880.0	3760.4	5797.7	7986.1	9580.1	9768.7	9438.6	9394.6	9243.6	6832.1
62.5°	1097.3	1157.0	1656.9	2870.6	4351.4	5822.9	6228.5	6093.2	5804.0	5407.9	3537.1
65°	521.9	559.7	823.7	1342.5	1930.5	2427.2	2832.8	2958.6	2182.0	1965.1	1166.4
67.5°	355.2	383.6	600.6	767.2	688.6	720.0	936.9	870.9	512.5	437.0	323.8
70°	270.4	289.2	481.1	521.9	308.1	217.0	242.1	226.4	210.6	213.8	210.6
72.5°	191.8	207.5	352.1	308.1	135.2	100.6	128.9	154.1	154.1	154.1	150.9
75°	116.4	132.0	204.4	119.5	53.5	53.5	81.7	103.7	110.0	113.2	106.9
77.5°	59.7	75.5	69.1	34.6	34.6	40.9	59.7	72.3	78.6	78.6	75.5
80°	12.6	12.6	12.6	18.9	34.6	44.0	59.7	66.0	75.5	75.5	69.1
82.5°	0.0	3.1	9.4	18.9	31.5	40.9	56.6	66.0	75.5	78.6	72.3
85°	0.0	3.1	6.3	12.6	22.0	25.1	22.0	18.9	18.9	18.9	18.9
87.5°	0.0	0.0	3.1	3.1	3.1	6.3	6.3	6.3	6.3	6.3	6.3
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: P648124

CATALOG NUMBER: GALN-SA8A-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2
2.5°	4565.2	4574.7	4558.9	4555.8	4543.2	4580.9	4489.8	4467.8	4524.3	4470.9	4483.5
5°	4624.9	4646.9	4618.7	4571.5	4502.3	4395.4	4304.3	4184.8	4128.2	4087.3	4081.1
7.5°	4669.0	4684.7	4656.4	4505.5	4298.0	4027.6	3826.4	3678.6	3562.3	3527.6	3471.1
10°	4848.2	4851.3	4709.8	4376.6	3971.0	3615.7	3307.6	3081.2	2964.9	2892.6	2861.2
12.5°	4967.7	4961.4	4675.3	4121.9	3581.1	3109.5	2757.4	2483.8	2377.0	2342.3	2320.3
15°	5118.6	5084.0	4593.5	3861.0	3078.1	2568.7	2251.2	2062.5	2053.1	2031.1	2053.1
17.5°	5238.0	5140.6	4474.1	3386.2	2597.1	2116.0	1908.5	1921.0	1946.2	1968.2	1971.4
20°	5433.0	5231.8	4200.5	2971.2	2150.6	1814.1	1811.0	1867.6	1930.5	1955.6	1980.8
22.5°	5580.8	5269.5	3908.1	2527.8	1785.9	1691.5	1745.0	1829.9	1877.0	1902.1	1939.9
25°	5634.2	5165.8	3518.3	2084.5	1609.8	1634.9	1716.6	1773.3	1833.0	1861.3	1845.6
27.5°	5687.7	5112.3	3052.9	1716.6	1515.4	1597.2	1666.4	1723.0	1741.9	1779.5	1804.7
30°	5816.6	4926.8	2634.8	1484.0	1468.3	1572.0	1622.4	1641.2	1691.5	1713.5	1713.5
32.5°	5920.3	4854.5	2191.5	1374.0	1462.0	1584.6	1590.9	1590.9	1597.2	1581.5	1575.2
35°	6134.1	4606.1	1795.3	1307.9	1458.9	1587.8	1603.5	1550.0	1405.4	1348.8	1333.1
37.5°	6398.2	4445.8	1502.9	1292.3	1480.9	1625.5	1650.6	1449.4	1260.8	1169.6	1153.9
40°	6718.9	4332.6	1311.1	1285.9	1531.2	1713.5	1638.1	1370.8	1125.6	993.5	987.3
42.5°	7093.1	4228.8	1182.2	1282.8	1594.0	1804.7	1625.5	1304.8	987.3	899.2	911.8
45°	7391.8	4172.2	1094.2	1260.8	1616.0	1858.1	1634.9	1188.4	930.7	874.1	880.3
47.5°	7624.5	4052.7	1021.8	1223.0	1612.9	1877.0	1550.0	1141.3	902.3	918.1	933.8
50°	7630.7	3892.4	930.7	1141.3	1565.8	1842.5	1452.5	1097.3	896.1	962.1	993.5
52.5°	7545.8	3666.0	833.2	1024.9	1455.8	1723.0	1364.5	1078.4	867.8	861.5	899.2
55°	7244.0	3241.5	669.7	830.1	1229.3	1421.1	1285.9	1043.8	782.8	710.6	716.8
57.5°	5854.3	2323.5	493.6	594.2	870.9	1040.7	1160.2	1028.2	704.3	603.7	606.8
60°	3625.1	1317.4	361.6	405.6	537.6	632.0	940.1	955.8	628.8	509.3	503.1
62.5°	1861.3	650.8	279.8	286.1	330.1	371.0	644.6	801.7	569.1	484.2	484.2
65°	622.6	320.7	245.2	220.1	220.1	229.5	389.9	556.5	481.1	405.6	405.6
67.5°	267.2	239.0	213.8	191.8	176.1	166.6	220.1	323.8	358.5	308.1	295.6
70°	207.5	201.2	185.5	160.4	138.4	125.7	128.9	166.6	204.4	198.1	191.8
72.5°	154.1	154.1	147.8	125.7	106.9	91.1	84.9	88.0	97.5	100.6	103.7
75°	106.9	110.0	110.0	97.5	78.6	66.0	56.6	47.1	37.7	31.5	28.3
77.5°	72.3	75.5	81.7	72.3	59.7	44.0	34.6	25.1	15.7	6.3	6.3
80°	62.9	72.3	78.6	72.3	62.9	47.1	34.6	18.9	9.4	0.0	0.0
82.5°	66.0	72.3	81.7	69.1	59.7	44.0	34.6	22.0	9.4	3.1	0.0
85°	15.7	15.7	18.9	22.0	28.3	31.5	25.1	15.7	9.4	3.1	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	3.1	3.1	3.1	3.1	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)