

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: P647427

Luminaire Tested: **GALN-SA5D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647427
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-SA5D-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 22628.7 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

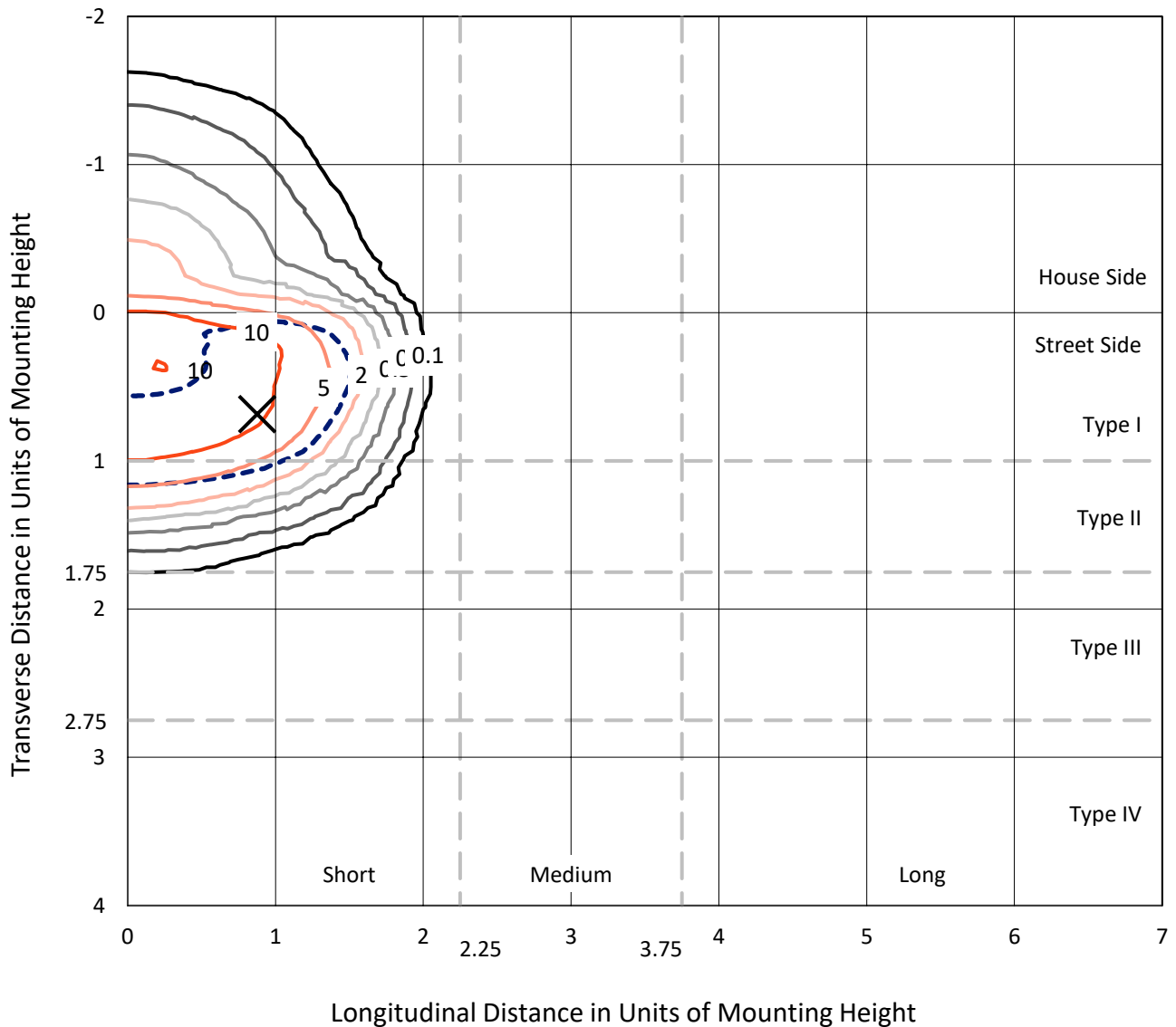
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

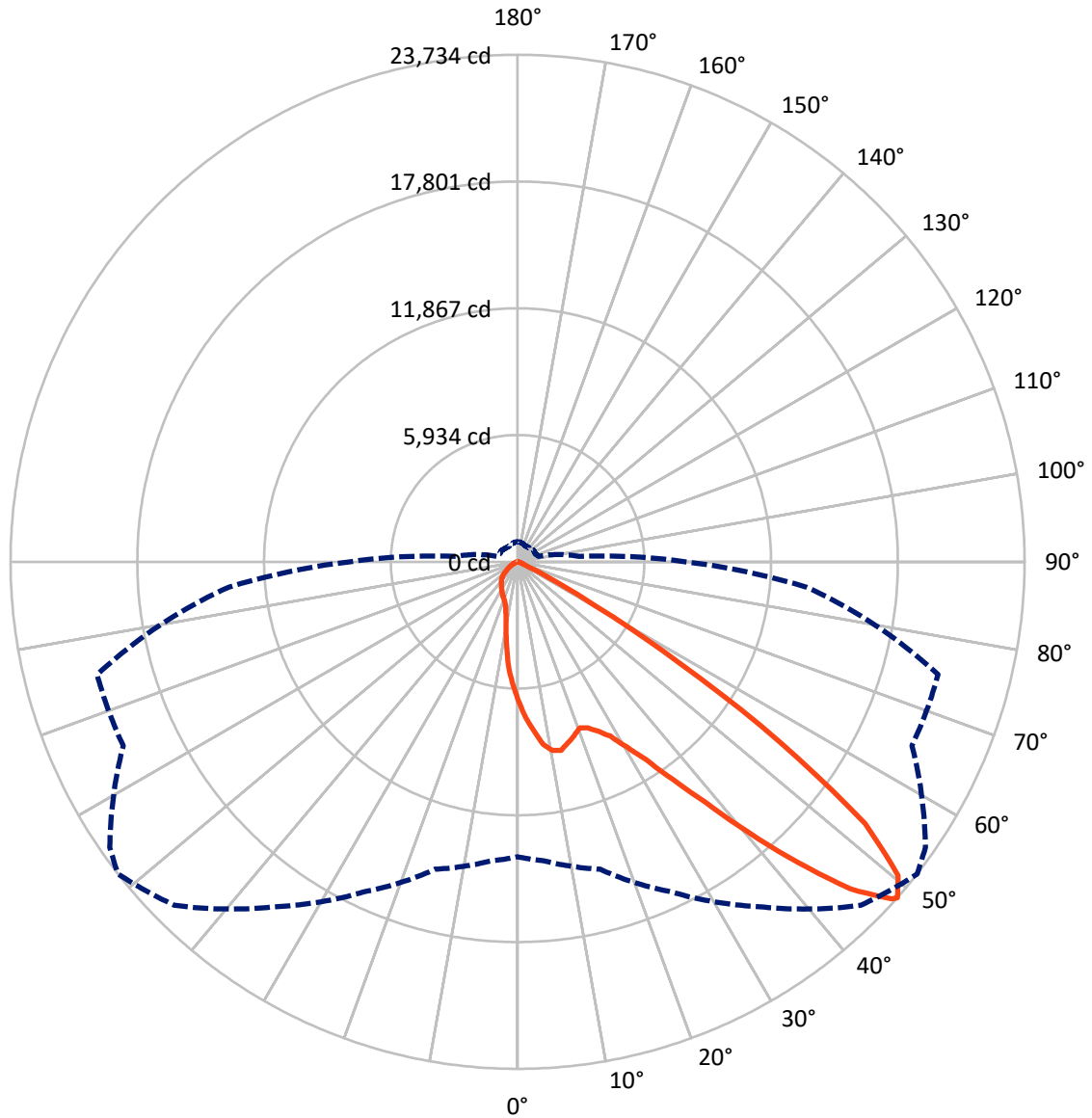
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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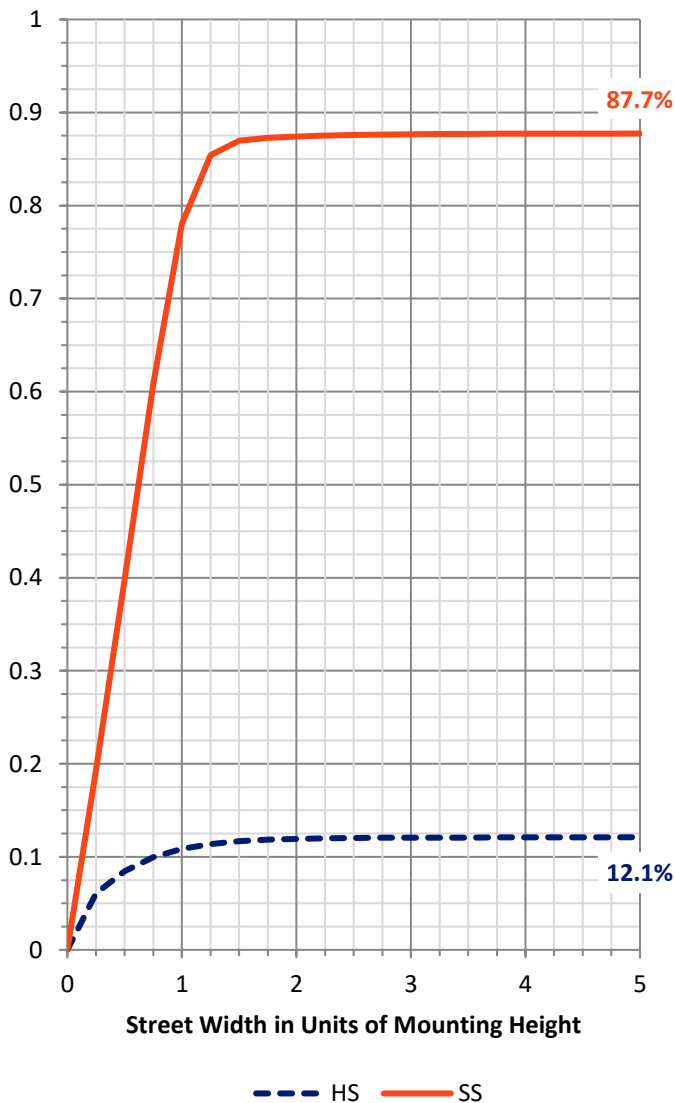
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.2	0.0	2755.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19873.5	0.0	19873.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	22628.7	0.0	22628.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.1	2.6
10°-20°	1563.1	6.9
20°-30°	2668.9	11.8
30°-40°	4914.7	21.7
40°-50°	7632.5	33.7
50°-60°	4593.5	20.3
60°-70°	531.3	2.3
70°-80°	102.9	0.5
80°-90°	23.8	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°	22628.7	100.0
0°-180°	22628.7	100.0

Coefficient of Utilization



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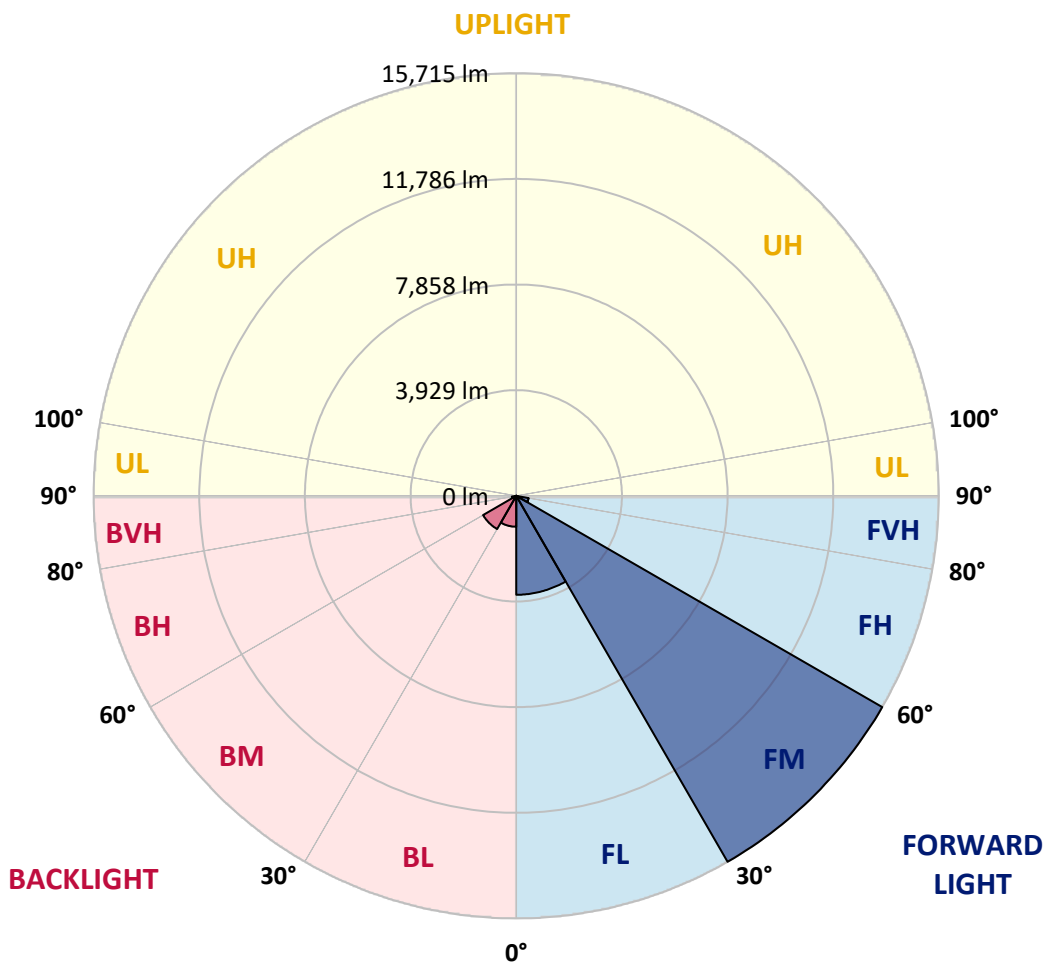
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3679.1	16.3			
FM (30°-60°)	15715.2	69.4			
FH (60°-80°)	467.8	2.1			G0/660
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	1150.9	5.1	B3/2500		
BM (30°-60°)	1425.5	6.3	B2/2500		
BH (60°-80°)	166.3	0.7	B1/500		G1/500
BVH (80°-90°)	12.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8
2.5°	7920.3	7738.9	7755.3	7636.6	7567.3	7455.2	7303.4	7273.7	7108.8	6884.4	6656.8
5°	8632.8	8589.9	8646.0	8474.5	8481.1	8296.4	7940.1	7946.7	7567.3	7201.2	6848.2
7.5°	8679.0	8580.0	8636.1	8787.8	8876.9	8843.9	8642.7	8467.8	8108.3	7570.6	7056.0
10°	7771.8	7959.8	8019.3	8269.9	8626.2	9002.2	8979.1	8989.1	8688.9	7986.2	7234.1
12.5°	7227.6	7102.2	7303.4	7455.2	7992.9	8721.8	9055.0	9127.6	9150.7	8388.7	7412.3
15°	6980.1	6980.1	7013.1	7056.0	7445.2	8118.2	8797.7	9008.8	9507.0	8916.5	7692.7
17.5°	7135.2	7128.6	7174.8	7085.7	7230.8	7748.7	8560.2	8801.0	9906.1	9434.4	7913.7
20°	7606.8	7629.9	7600.3	7343.0	7352.8	7742.1	8296.4	8675.6	10176.6	9883.0	8207.2
22.5°	8263.3	8276.5	8108.3	7827.9	7745.4	7936.7	8448.0	8738.4	10394.3	10420.7	8296.4
25°	9022.0	8969.3	8936.3	8540.4	8289.7	8454.7	8791.1	8959.4	10529.5	10882.5	8550.3
27.5°	10074.3	9968.8	9767.5	9414.6	9229.8	8995.7	9236.4	9513.5	10915.5	11529.0	8827.4
30°	11628.0	11535.7	11143.1	10687.9	10203.0	9972.1	10047.9	10199.7	11611.6	12277.9	9193.6
32.5°	13966.8	13772.2	13204.8	12337.3	11677.5	11040.8	11021.0	11182.7	12235.0	13313.7	9629.0
35°	16543.1	16483.8	15649.2	14755.2	13478.6	12495.6	12512.1	12597.8	13429.2	14672.8	10199.7
37.5°	18255.2	18581.8	18050.7	17090.8	16018.7	14613.4	14257.1	14286.9	15068.6	16282.6	11228.9
40°	19578.0	19300.9	19363.6	19139.3	18406.9	17450.3	16661.9	16506.9	16965.4	18063.9	12251.5
42.5°	19000.7	19013.9	19399.8	19931.0	20112.4	20043.1	19238.2	18944.6	18588.3	19521.9	13224.6
45°	17371.2	17710.9	18212.3	19617.6	20851.3	22009.2	21850.8	21362.6	19709.9	20676.4	13785.4
47.5°	14771.8	14758.5	15579.9	17407.4	20148.7	22860.2	23579.3	23236.3	20505.0	20547.8	13669.9
48°	13811.8	14049.3	14897.1	17047.9	19703.3	22734.9	23734.4	23302.2	20369.7	20376.2	13571.0
50°	10209.6	10166.7	11222.3	13861.3	17598.8	21362.6	23081.3	23417.7	20366.4	19508.7	12878.2
52.5°	5393.5	5578.2	6346.8	8715.3	12442.8	17483.3	20359.8	20884.3	19647.3	18090.3	11882.0
55°	2292.6	2071.6	2662.0	3935.4	6999.9	11680.8	14936.7	16104.4	16612.4	16008.7	10394.3
57.5°	818.1	894.0	1029.2	1481.1	2942.4	6393.0	8906.5	9813.7	11509.3	11746.8	7082.4
60°	524.5	534.4	577.3	679.6	1105.0	2464.2	4225.7	4948.1	5716.7	5901.5	3305.4
62.5°	405.8	409.0	428.8	445.3	524.5	956.7	1586.7	1880.3	1952.9	1679.1	867.6
65°	339.7	343.0	349.7	349.7	372.8	448.7	554.2	610.3	593.7	587.2	491.5
67.5°	260.6	267.2	280.4	280.4	293.6	273.8	306.8	326.6	369.4	448.7	418.9
70°	204.5	207.8	217.8	224.3	224.3	197.9	221.0	240.8	270.5	333.2	329.9
72.5°	158.3	164.9	171.6	171.6	161.6	135.2	158.3	174.8	194.7	230.9	224.3
75°	122.1	122.1	125.4	102.3	79.2	69.3	95.7	115.5	145.2	151.7	125.4
77.5°	33.0	36.3	33.0	29.7	33.0	49.5	62.6	72.6	92.4	92.4	82.4
80°	0.0	3.3	9.9	19.8	33.0	46.2	56.1	62.6	72.6	79.2	75.9
82.5°	0.0	3.3	9.9	19.8	29.7	36.3	49.5	52.8	59.4	69.3	69.3
85°	0.0	3.3	6.6	13.2	19.8	23.1	23.1	19.8	19.8	16.5	13.2
87.5°	0.0	0.0	3.3	6.6	6.6	9.9	9.9	9.9	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8	6534.8
2.5°	6567.8	6465.5	6310.5	6066.4	5832.2	5680.4	5535.3	5373.7	5284.5	5278.0	5228.5
5°	6647.0	6416.1	6046.6	5627.7	5179.0	4793.1	4403.8	4149.8	3922.2	3796.8	3773.7
7.5°	6689.8	6389.7	5792.6	5090.0	4324.7	3694.6	3259.2	2939.1	2813.8	2721.5	2718.2
10°	6778.9	6343.5	5413.2	4377.4	3430.7	2794.1	2493.9	2348.7	2279.4	2253.0	2213.5
12.5°	6844.9	6257.7	5024.0	3645.1	2711.5	2315.7	2183.8	2150.7	2154.1	2167.3	2150.7
15°	6937.2	6181.9	4499.5	2991.9	2276.1	2084.8	2084.8	2091.4	2137.6	2144.2	2140.9
17.5°	6930.6	6033.4	3958.5	2464.2	2012.2	1985.8	1995.7	2058.4	2088.1	2098.0	2074.9
20°	7009.8	5894.8	3401.0	2104.6	1863.8	1903.4	1969.3	1985.8	2022.1	2028.8	2002.4
22.5°	6986.7	5548.5	2883.1	1820.9	1751.6	1827.5	1893.5	1913.3	1903.4	1883.6	1880.3
25°	6943.8	5251.6	2408.0	1632.9	1669.1	1751.6	1814.3	1778.0	1758.2	1761.5	1764.8
27.5°	6867.9	4875.5	2015.5	1500.9	1557.0	1679.1	1675.8	1662.5	1682.4	1665.8	1682.4
30°	6854.8	4499.5	1692.2	1382.2	1474.5	1563.6	1570.2	1593.3	1616.3	1586.7	1616.3
32.5°	6874.6	4087.1	1461.3	1309.6	1425.1	1428.3	1500.9	1524.0	1507.5	1441.6	1448.2
35°	7026.3	3770.5	1293.1	1270.0	1345.9	1349.2	1418.5	1388.7	1316.2	1276.6	1299.7
37.5°	7346.3	3506.6	1214.0	1233.7	1240.4	1283.2	1286.5	1227.1	1233.7	1230.4	1243.6
40°	7755.3	3305.4	1157.8	1200.7	1194.2	1223.8	1105.0	1138.1	1167.8	1177.6	1184.2
42.5°	8035.7	3160.2	1121.6	1148.0	1134.8	1081.9	1016.0	1049.0	1072.1	1108.3	1115.0
45°	8161.1	3044.7	1078.7	1055.6	1055.6	960.0	933.6	940.1	992.9	1032.5	1025.9
47.5°	7956.5	2932.6	1002.8	933.6	956.7	877.4	847.8	847.8	903.8	953.3	943.4
48°	7877.4	2886.4	1006.1	907.2	923.6	864.3	834.6	827.9	890.7	936.9	936.9
50°	7484.9	2714.9	920.3	834.6	801.6	795.0	775.2	781.8	821.4	864.3	864.3
52.5°	6719.5	2345.4	778.5	715.8	656.5	696.0	706.0	692.7	712.5	752.1	748.8
55°	5607.8	1801.1	623.4	593.7	547.6	590.5	610.3	593.7	574.0	603.7	603.7
57.5°	3592.3	969.8	498.1	504.7	458.5	501.4	517.9	478.3	442.0	465.1	461.8
60°	1619.7	580.6	409.0	399.2	369.4	418.9	445.3	399.2	349.7	366.1	382.7
62.5°	607.0	412.3	310.1	303.5	296.9	343.0	356.3	320.0	270.5	280.4	283.7
65°	445.3	362.8	247.4	224.3	237.5	270.5	263.9	227.6	194.7	194.7	201.2
67.5°	379.4	316.6	201.2	174.8	174.8	178.1	164.9	145.2	135.2	141.9	148.5
70°	296.9	250.7	158.3	135.2	122.1	108.8	95.7	92.4	82.4	92.4	89.0
72.5°	191.4	168.3	122.1	102.3	92.4	75.9	62.6	59.4	49.5	46.2	46.2
75°	102.3	102.3	95.7	82.4	72.6	59.4	49.5	39.6	26.4	19.8	19.8
77.5°	72.6	79.2	85.7	79.2	66.0	49.5	39.6	26.4	13.2	6.6	6.6
80°	69.3	79.2	85.7	75.9	66.0	49.5	36.3	19.8	9.9	3.3	3.3
82.5°	62.6	72.6	79.2	69.3	59.4	42.9	33.0	19.8	9.9	3.3	3.3
85°	13.2	16.5	19.8	19.8	23.1	29.7	23.1	16.5	6.6	3.3	3.3
87.5°	9.9	9.9	9.9	9.9	9.9	9.9	6.6	6.6	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

(END OF REPORT)