

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: P650892

Luminaire Tested: **GALN-SA5C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650892
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-SA5C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 22088 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

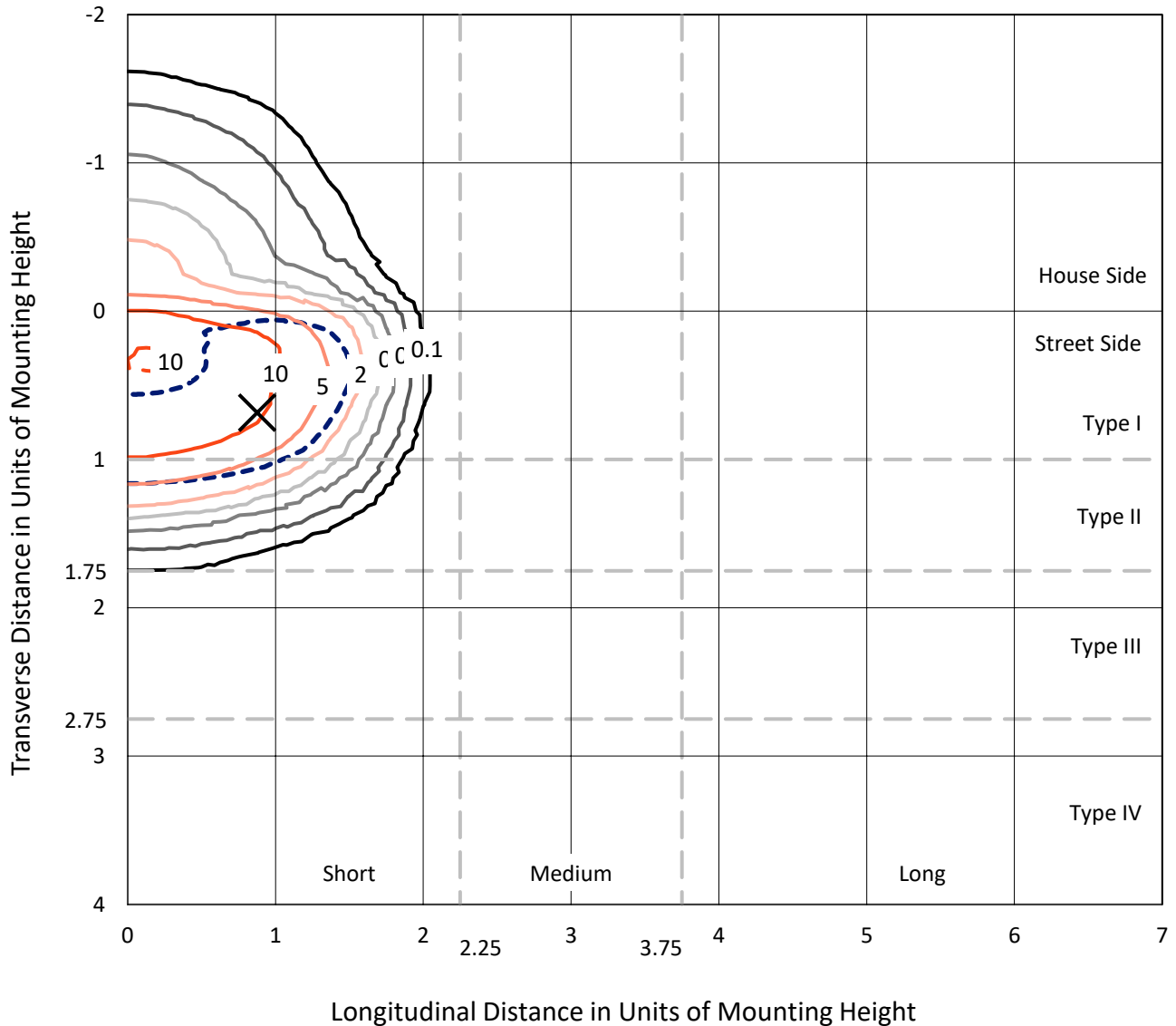
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

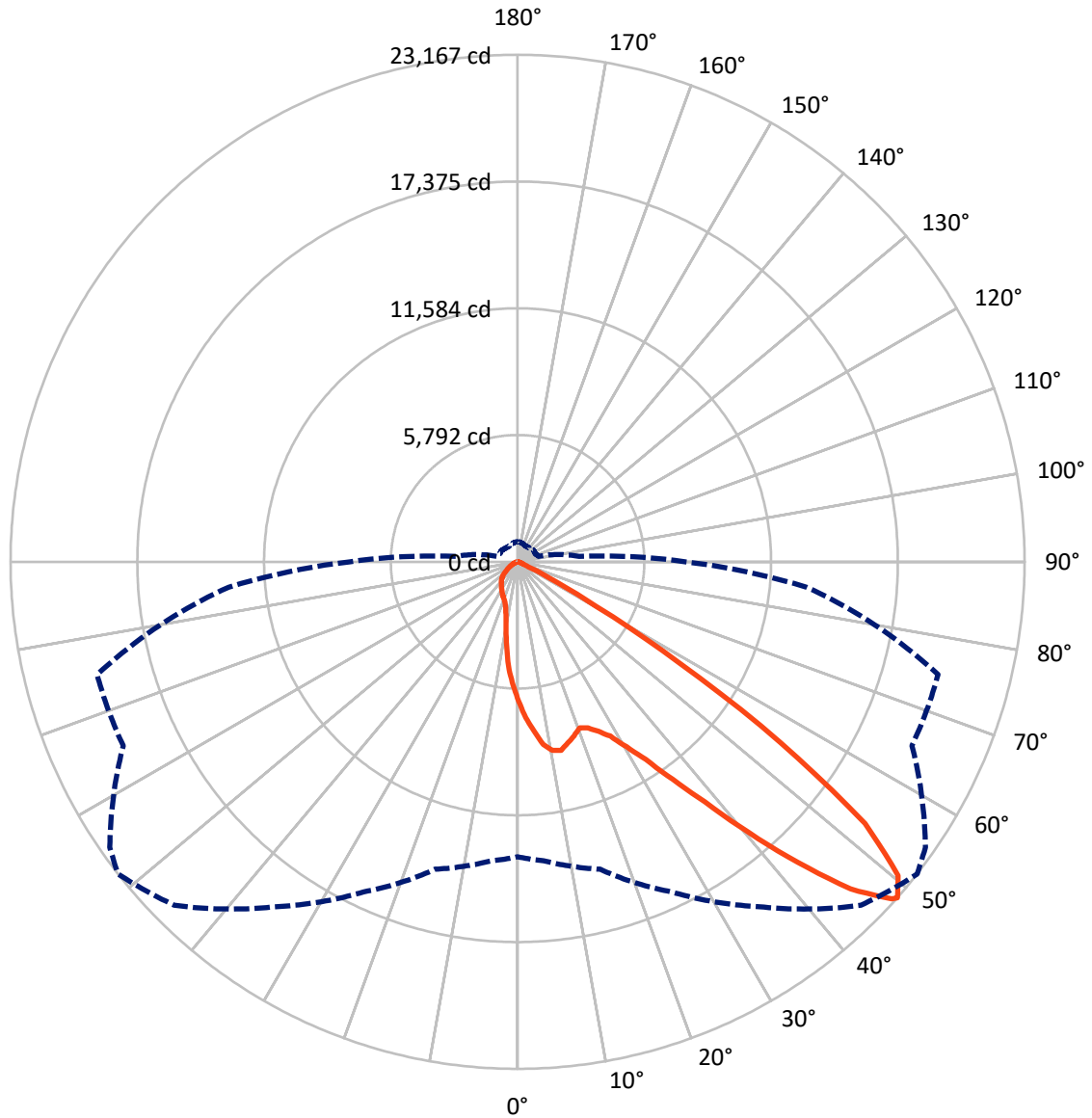
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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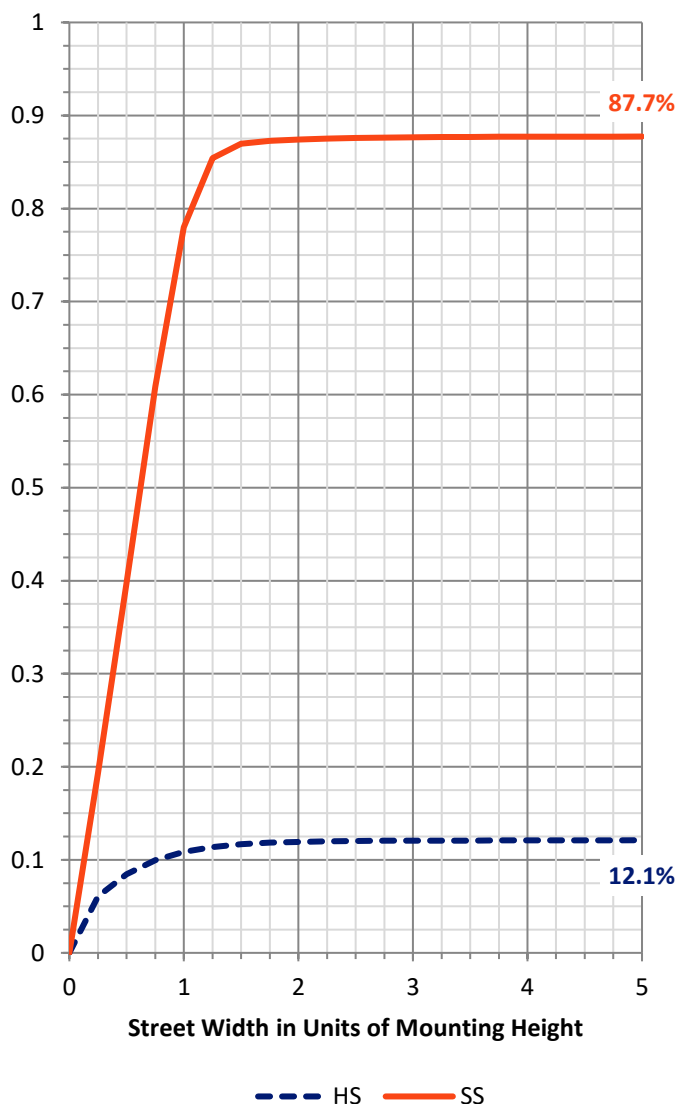
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2689.4	0.0	2689.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19398.6	0.0	19398.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	22088.0	0.0	22088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.8	2.6
10°-20°	1525.8	6.9
20°-30°	2605.1	11.8
30°-40°	4797.3	21.7
40°-50°	7450.2	33.7
50°-60°	4483.7	20.3
60°-70°	518.6	2.3
70°-80°	100.4	0.5
80°-90°	23.2	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°	22088.0	100.0
0°-180°	22088.0	100.0

Coefficient of Utilization



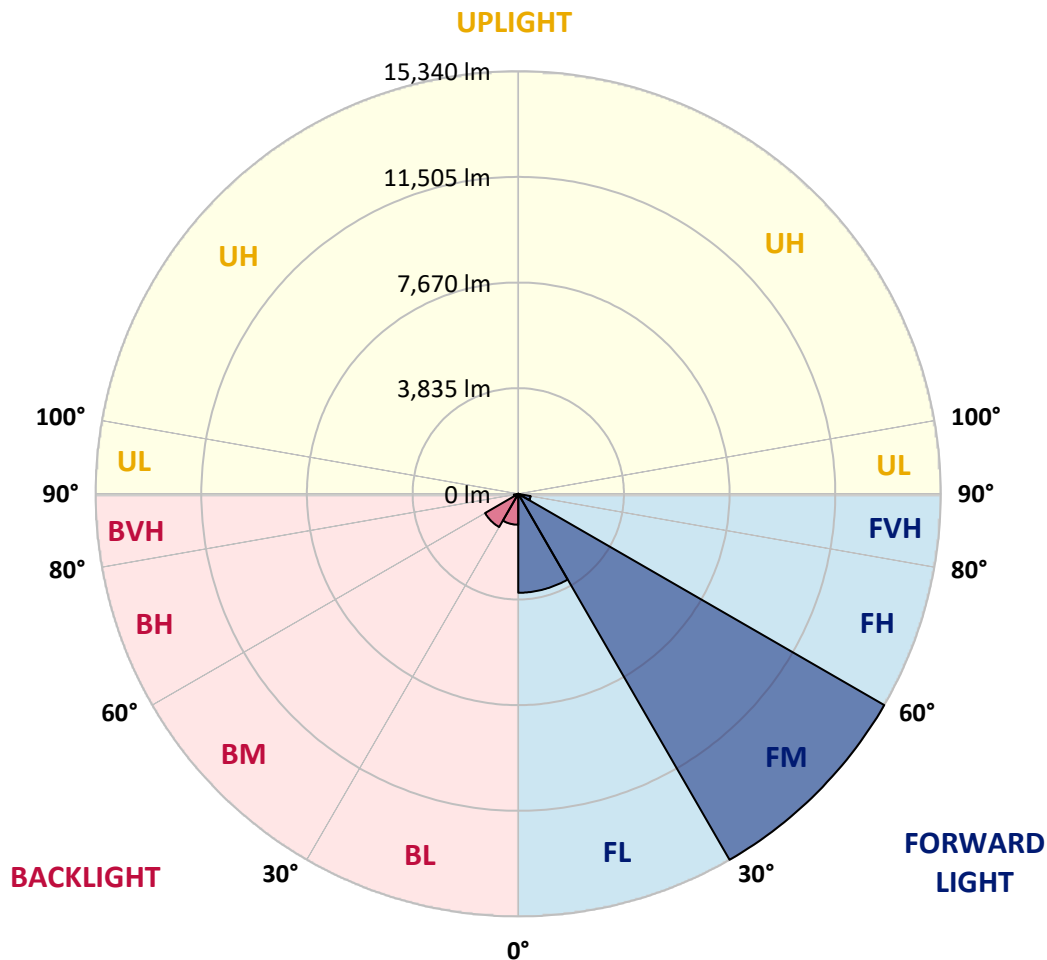
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3591.2	16.3			
FM (30°-60°)	15339.7	69.4			
FH (60°-80°)	456.7	2.1			G0/660
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	1123.5	5.1	B3/2500		
BM (30°-60°)	1391.5	6.3	B2/2500		
BH (60°-80°)	162.3	0.7	B1/500		G1/500
BVH (80°-90°)	12.2	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°	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6
2.5°	7731.1	7553.9	7570.0	7454.1	7386.5	7277.0	7128.9	7099.9	6938.9	6719.9	6497.8
5°	8426.5	8384.7	8439.4	8272.0	8278.4	8098.1	7750.3	7756.8	7386.5	7029.1	6684.5
7.5°	8471.6	8375.0	8429.8	8577.9	8664.8	8632.6	8436.2	8265.5	7914.6	7389.7	6887.4
10°	7586.2	7769.7	7827.6	8072.3	8420.1	8787.2	8764.6	8774.2	8481.2	7795.4	7061.3
12.5°	7054.8	6932.4	7128.9	7277.0	7801.9	8513.4	8838.7	8909.5	8932.0	8188.2	7235.1
15°	6813.4	6813.4	6845.6	6887.4	7267.3	7924.2	8587.5	8793.6	9279.8	8703.4	7508.9
17.5°	6964.7	6958.3	7003.3	6916.4	7058.1	7563.6	8355.7	8590.7	9669.4	9208.9	7724.6
20°	7425.1	7447.6	7418.7	7167.5	7177.2	7557.1	8098.1	8468.4	9933.5	9646.9	8011.1
22.5°	8065.9	8078.7	7914.6	7640.8	7560.3	7747.1	8246.2	8529.6	10146.0	10171.7	8098.1
25°	8806.4	8755.0	8722.8	8336.3	8091.7	8252.6	8581.1	8745.3	10277.9	10622.5	8346.0
27.5°	9833.6	9730.6	9534.2	9189.6	9009.3	8780.7	9015.8	9286.2	10654.7	11253.6	8616.5
30°	11350.2	11260.1	10876.9	10432.5	9959.2	9733.8	9807.8	9956.0	11334.1	11984.5	8973.9
32.5°	13633.1	13443.1	12889.3	12042.4	11398.5	10777.1	10757.7	10915.5	11942.7	12995.6	9398.9
35°	16147.9	16089.9	15275.3	14402.7	13156.6	12197.0	12213.2	12296.8	13108.2	14322.2	9956.0
37.5°	17819.0	18137.8	17619.4	16682.4	15636.0	14264.2	13916.4	13945.5	14708.6	15893.5	10960.6
40°	19110.2	18839.7	18900.9	18682.0	17967.1	17033.4	16263.8	16112.5	16560.0	17632.2	11958.8
42.5°	18546.7	18559.6	18936.3	19454.8	19631.8	19564.2	18778.5	18492.0	18144.2	19055.5	12908.7
45°	16956.1	17287.8	17777.1	19148.8	20353.1	21483.3	21328.7	20852.2	19239.0	20182.4	13456.0
47.5°	14418.8	14405.9	15207.6	16991.5	19667.3	22314.0	23016.0	22681.1	20015.0	20056.8	13343.3
48°	13481.8	13713.6	14541.1	16640.5	19232.6	22191.6	23167.3	22745.5	19883.0	19889.4	13246.8
50°	9965.7	9923.8	10954.2	13530.1	17178.3	20852.2	22529.7	22858.2	19879.7	19042.6	12570.6
52.5°	5264.6	5444.9	6195.1	8507.1	12145.6	17065.6	19873.3	20385.3	19177.8	17658.1	11598.1
55°	2237.8	2022.1	2598.4	3841.4	6832.7	11401.7	14579.7	15719.6	16215.5	15626.3	10146.0
57.5°	798.5	872.6	1004.6	1445.8	2872.2	6240.2	8693.8	9579.2	11234.3	11466.1	6913.2
60°	512.0	521.6	563.5	663.3	1078.7	2405.3	4124.7	4829.9	5580.1	5760.4	3226.3
62.5°	396.0	399.3	418.6	434.7	512.0	933.8	1548.8	1835.3	1906.2	1638.9	846.8
65°	331.7	334.9	341.3	341.3	363.8	437.9	540.9	595.7	579.6	573.1	479.8
67.5°	254.4	260.8	273.7	273.7	286.6	267.3	299.5	318.7	360.6	437.9	408.9
70°	199.7	202.8	212.5	218.9	218.9	193.2	215.7	235.1	264.1	325.2	322.0
72.5°	154.6	161.0	167.4	167.4	157.8	132.0	154.6	170.6	190.0	225.4	218.9
75°	119.2	119.2	122.4	99.8	77.3	67.6	93.4	112.7	141.7	148.1	122.4
77.5°	32.2	35.4	32.2	29.0	32.2	48.3	61.1	70.8	90.2	90.2	80.5
80°	0.0	3.2	9.7	19.3	32.2	45.1	54.7	61.1	70.8	77.3	74.1
82.5°	0.0	3.2	9.7	19.3	29.0	35.4	48.3	51.6	57.9	67.6	67.6
85°	0.0	3.2	6.5	12.9	19.3	22.5	22.5	19.3	19.3	16.1	12.9
87.5°	0.0	0.0	3.2	6.5	6.5	9.7	9.7	9.7	9.7	9.7	9.7
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°	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6
2.5°	6410.9	6311.0	6159.7	5921.4	5692.8	5544.7	5403.0	5245.2	5158.3	5151.9	5103.6
5°	6488.1	6262.8	5902.1	5493.2	5055.3	4678.6	4298.6	4050.7	3828.5	3706.1	3683.6
7.5°	6530.0	6236.9	5654.2	4968.3	4221.3	3606.3	3181.3	2869.0	2746.6	2656.5	2653.2
10°	6616.9	6191.9	5283.9	4272.9	3348.7	2727.3	2434.3	2292.6	2224.9	2199.2	2160.5
12.5°	6681.3	6108.2	4904.0	3558.0	2646.8	2260.4	2131.6	2099.4	2102.6	2115.5	2099.4
15°	6771.5	6034.1	4392.0	2920.5	2221.8	2035.0	2035.0	2041.4	2086.5	2092.9	2089.7
17.5°	6765.0	5889.2	3863.9	2405.3	1964.2	1938.4	1948.0	2009.2	2038.2	2047.8	2025.3
20°	6842.3	5754.0	3319.8	2054.3	1819.3	1857.9	1922.3	1938.4	1973.8	1980.2	1954.5
22.5°	6819.8	5415.9	2814.2	1777.4	1709.8	1783.8	1848.3	1867.5	1857.9	1838.6	1835.3
25°	6778.0	5126.1	2350.5	1593.9	1629.3	1709.8	1771.0	1735.6	1716.2	1719.4	1722.6
27.5°	6703.9	4759.1	1967.4	1465.0	1519.8	1638.9	1635.7	1622.9	1642.1	1626.1	1642.1
30°	6691.0	4392.0	1651.8	1349.1	1439.3	1526.2	1532.6	1555.3	1577.8	1548.8	1577.8
32.5°	6710.3	3989.5	1426.4	1278.3	1391.0	1394.2	1465.0	1487.6	1471.5	1407.1	1413.6
35°	6858.4	3680.4	1262.2	1239.6	1313.7	1316.9	1384.5	1355.6	1284.7	1246.1	1268.6
37.5°	7170.8	3422.8	1185.0	1204.2	1210.7	1252.6	1255.8	1197.8	1204.2	1201.0	1213.9
40°	7570.0	3226.3	1130.2	1172.0	1165.6	1194.6	1078.7	1110.9	1139.9	1149.5	1156.0
42.5°	7843.8	3084.7	1094.7	1120.5	1107.7	1056.1	991.7	1023.9	1046.5	1081.9	1088.3
45°	7966.0	2972.0	1052.9	1030.4	1030.4	937.0	911.2	917.7	969.2	1007.9	1001.4
47.5°	7766.5	2862.5	978.8	911.2	933.8	856.5	827.5	827.5	882.3	930.6	920.9
48°	7689.2	2817.4	982.0	885.5	901.6	843.6	814.7	808.2	869.3	914.4	914.4
50°	7306.0	2650.0	898.4	814.7	782.5	776.0	756.6	763.1	801.7	843.6	843.6
52.5°	6559.0	2289.4	759.9	698.7	640.8	679.4	689.0	676.2	695.5	734.1	730.9
55°	5473.8	1758.1	608.5	579.6	534.5	576.3	595.7	579.6	560.3	589.2	589.2
57.5°	3506.5	946.6	486.2	492.7	447.6	489.5	505.5	466.9	431.4	454.0	450.8
60°	1581.0	566.7	399.3	389.6	360.6	408.9	434.7	389.6	341.3	357.4	373.5
62.5°	592.5	402.5	302.7	296.2	289.8	334.9	347.8	312.3	264.1	273.7	276.9
65°	434.7	354.2	241.5	218.9	231.9	264.1	257.6	222.2	190.0	190.0	196.4
67.5°	370.3	309.2	196.4	170.6	170.6	173.8	161.0	141.7	132.0	138.4	144.9
70°	289.8	244.7	154.6	132.0	119.2	106.2	93.4	90.2	80.5	90.2	87.0
72.5°	186.8	164.2	119.2	99.8	90.2	74.1	61.1	57.9	48.3	45.1	45.1
75°	99.8	99.8	93.4	80.5	70.8	57.9	48.3	38.6	25.7	19.3	19.3
77.5°	70.8	77.3	83.7	77.3	64.4	48.3	38.6	25.7	12.9	6.5	6.5
80°	67.6	77.3	83.7	74.1	64.4	48.3	35.4	19.3	9.7	3.2	3.2
82.5°	61.1	70.8	77.3	67.6	57.9	41.9	32.2	19.3	9.7	3.2	3.2
85°	12.9	16.1	19.3	19.3	22.5	29.0	22.5	16.1	6.5	3.2	3.2
87.5°	9.7	9.7	9.7	9.7	9.7	9.7	6.5	6.5	3.2	3.2	3.2
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)