

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: P648033

Luminaire Tested: **GALN-SA7A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22505 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

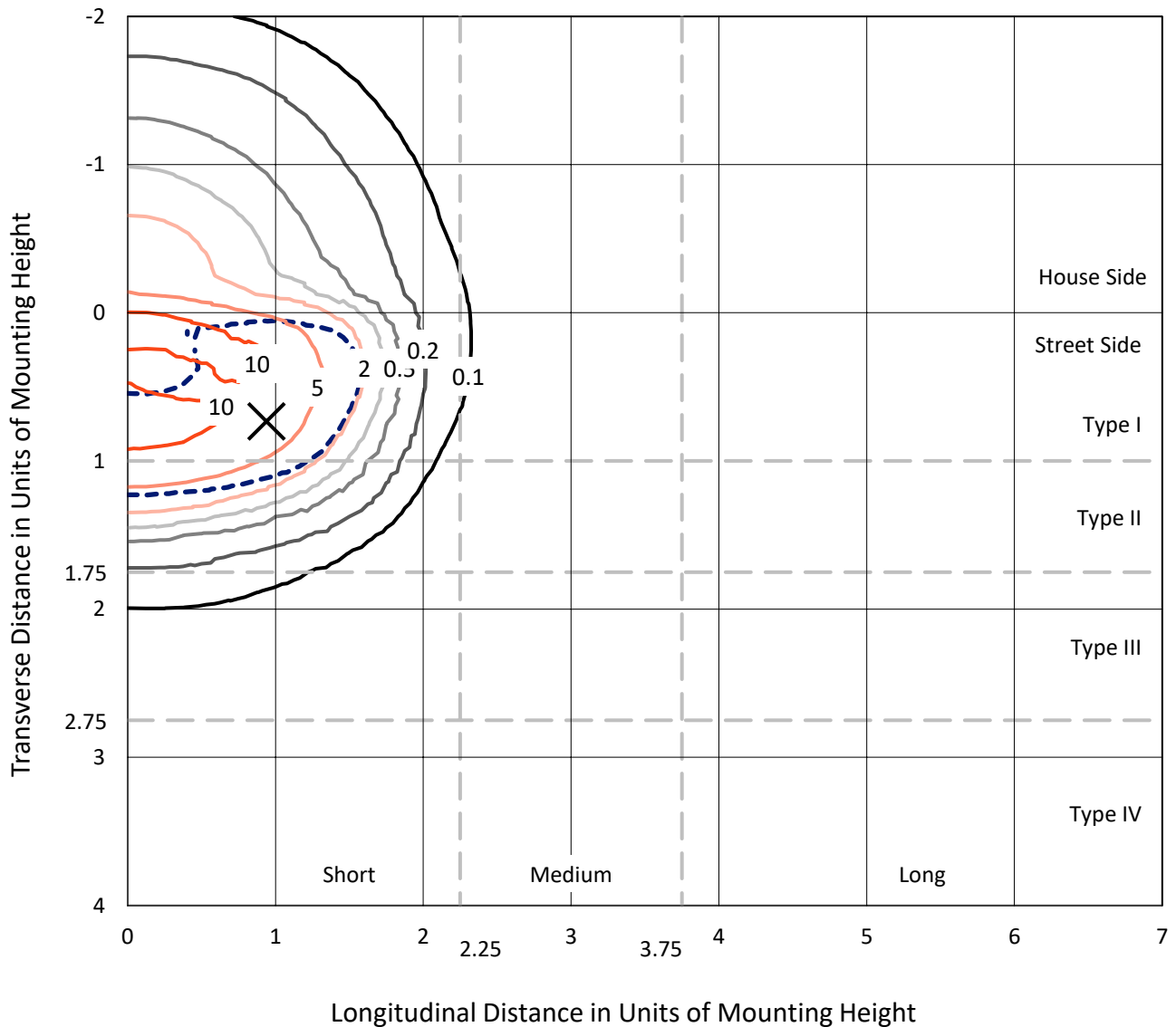
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

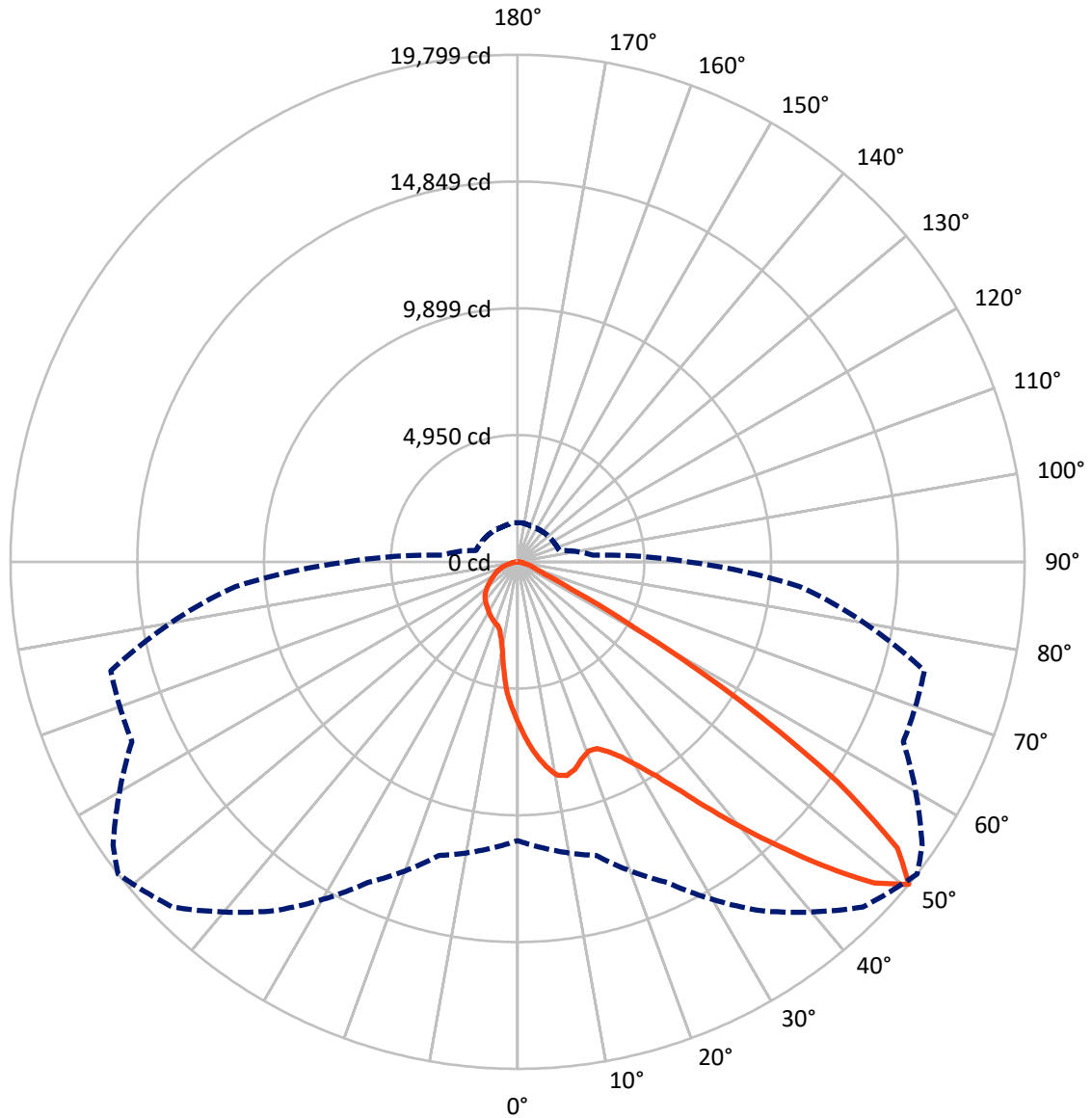
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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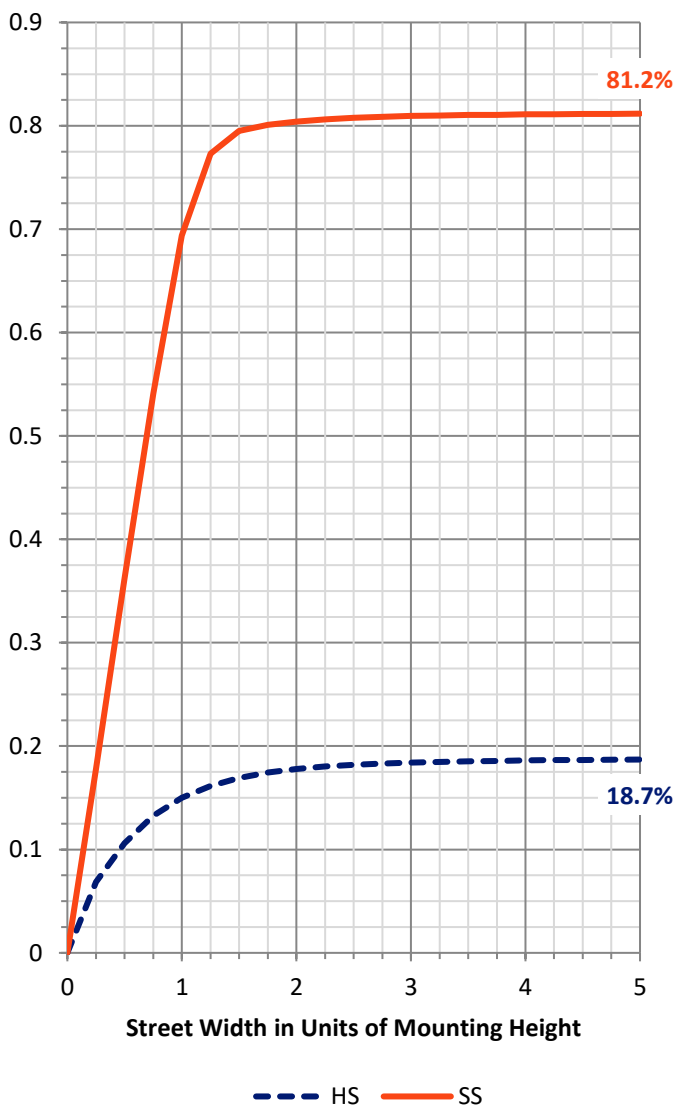
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4230.4	0.0	4230.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18274.6	0.0	18274.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	22505.0	0.0	22505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.7	2.6
10°-20°	1567.2	7.0
20°-30°	2639.8	11.7
30°-40°	4429.8	19.7
40°-50°	6776.5	30.1
50°-60°	4940.6	22.0
60°-70°	1099.5	4.9
70°-80°	396.6	1.8
80°-90°	70.2	0.3
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°	22505.0	100.0
0°-180°	22505.0	100.0

Coefficient of Utilization



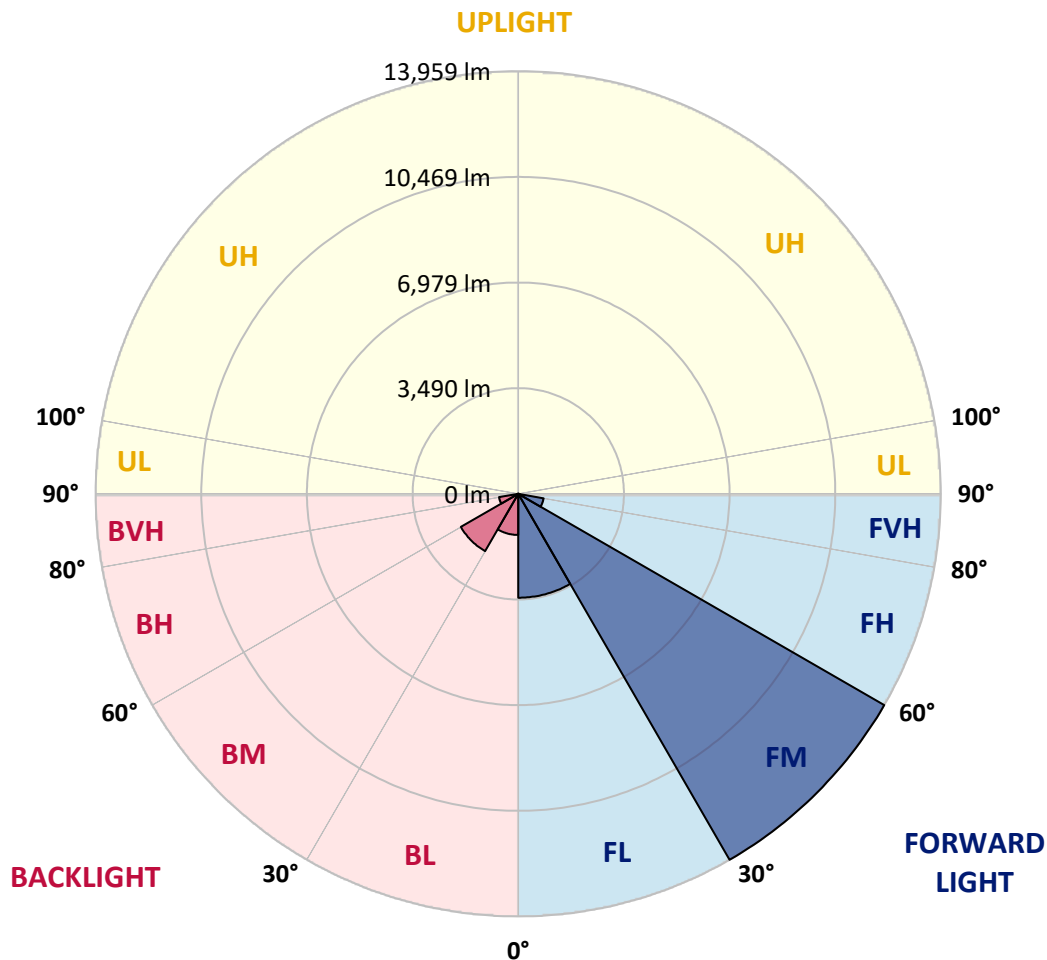
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3432.8	15.3			
FM (30°-60°)	13958.7	62.0			
FH (60°-80°)	851.6	3.8			G1/1800
FVH (80°-90°)	31.5	0.1			G1/100
BL (0°-30°)	1358.9	6.0	B3/2500		
BM (30°-60°)	2188.3	9.7	B2/2500		
BH (60°-80°)	644.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	38.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8
2.5°	7469.4	7325.6	7341.9	7238.8	7127.6	7095.1	6981.1	6872.6	6791.3	6617.7	6457.7
5°	8163.6	8120.3	8055.2	7973.8	7889.7	7683.6	7567.0	7431.4	7133.1	6864.5	6598.7
7.5°	8264.0	8255.9	8291.1	8291.1	8320.9	8242.3	8076.9	7981.9	7664.6	7228.0	6734.3
10°	7558.8	7583.3	7754.1	7976.5	8285.7	8499.9	8472.8	8448.4	8101.3	7504.6	6894.4
12.5°	6997.4	6943.2	7043.6	7233.4	7697.1	8215.2	8565.1	8567.7	8478.2	7946.7	7011.0
15°	6680.1	6718.1	6745.2	6834.7	7184.6	7784.0	8399.6	8581.4	8974.6	8258.6	7195.4
17.5°	6883.5	6756.0	6750.6	6772.3	6951.3	7401.5	8093.2	8405.0	9245.8	8660.0	7423.2
20°	7149.3	7146.6	7070.6	7043.6	7040.8	7442.2	7892.4	8315.5	9389.6	9180.8	7653.7
22.5°	7615.8	7615.8	7491.0	7431.4	7303.9	7632.1	7919.6	8207.0	9628.2	9538.7	7764.9
25°	8396.9	8269.4	8055.2	7908.7	7835.5	7952.1	8207.0	8464.7	9837.1	9918.4	7995.5
27.5°	9118.3	8917.7	8811.9	8559.6	8462.0	8394.2	8627.4	8887.8	10081.1	10509.7	8120.3
30°	9937.4	9902.1	9712.3	9386.8	9145.4	9020.7	9234.9	9492.6	10528.7	11114.5	8407.8
32.5°	11402.0	11082.0	10824.3	10425.6	10032.3	9766.5	9978.1	10148.9	11271.8	11746.4	8722.4
35°	12983.2	12880.1	12435.4	11716.6	11114.5	10875.8	11000.6	11128.1	12137.0	12712.0	9251.2
37.5°	14537.3	14396.2	14030.1	13425.2	12693.0	12207.5	12297.0	12446.2	13108.0	14013.8	9896.7
40°	15654.7	15481.1	15296.7	15207.2	14480.3	13815.8	13764.3	13802.3	14420.7	15234.3	10612.8
42.5°	15736.0	15950.3	16007.3	16368.0	16197.1	15652.0	15334.7	15342.8	15673.7	16441.2	11336.9
45°	15565.2	15367.2	15787.6	16772.1	17336.2	17591.2	17056.9	16989.1	16449.3	17141.0	11697.6
47.5°	13772.4	13826.7	14537.3	16094.1	17724.1	18863.2	18738.4	18513.3	16864.3	17116.5	11640.6
50°	10886.7	11214.8	11873.9	13813.1	16639.2	19063.9	19798.9	19278.2	16617.5	16443.9	11060.3
52.5°	7249.6	7385.3	7819.2	10322.5	13379.2	17040.6	18578.4	18697.7	16389.7	15562.4	10325.3
55°	3227.5	3216.6	3826.9	5391.8	8394.2	12966.9	15180.0	15907.0	15513.7	14664.7	9609.2
57.5°	1367.0	1413.1	1662.5	2329.7	4127.9	7824.6	10284.5	10921.9	11930.9	12042.1	7371.7
60°	924.9	930.3	998.1	1166.2	1727.7	3675.0	5394.6	6159.4	6880.8	6832.0	3910.9
62.5°	726.9	745.9	797.4	865.2	1025.2	1668.0	2413.8	2839.6	2885.7	2427.4	1483.6
65°	621.1	623.8	675.3	732.3	802.8	971.0	1163.5	1185.2	1198.8	1155.4	1090.3
67.5°	512.6	518.0	558.7	623.8	688.9	743.1	797.4	824.5	886.9	1008.9	992.7
70°	406.8	415.0	450.2	504.5	564.2	596.6	664.5	688.9	745.9	840.8	878.8
72.5°	309.2	311.9	341.7	379.7	433.9	466.5	523.4	550.6	588.6	669.9	705.2
75°	222.4	230.5	252.2	271.2	279.4	301.1	355.3	385.2	439.3	474.7	477.3
77.5°	116.6	122.1	127.5	127.5	154.6	195.3	230.5	246.8	284.8	311.9	298.3
80°	46.1	48.8	62.4	84.1	108.5	141.0	165.4	173.6	206.2	222.4	230.5
82.5°	27.1	29.8	40.7	59.7	78.7	100.4	119.3	127.5	149.2	168.2	173.6
85°	13.5	16.3	24.4	38.0	51.5	62.4	59.7	56.9	56.9	54.3	56.9
87.5°	5.4	5.4	8.1	8.1	8.1	10.9	13.5	13.5	13.5	16.3	16.3
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°	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8	6343.8
2.5°	6351.9	6243.4	6143.1	5958.6	5757.9	5701.0	5467.8	5383.7	5324.0	5253.5	5231.8
5°	6384.5	6240.7	5918.0	5546.4	5250.8	4871.0	4621.6	4353.0	4157.7	4108.9	4095.4
7.5°	6452.2	6205.4	5649.5	5088.0	4483.2	3967.9	3574.6	3363.1	3175.9	3165.1	3146.1
10°	6528.2	6099.6	5356.6	4475.1	3702.1	3224.8	2988.8	2896.6	2850.5	2839.6	2834.2
12.5°	6590.6	6078.0	5028.3	3878.4	3148.8	2861.3	2790.8	2782.7	2801.7	2807.1	2817.9
15°	6617.7	5991.2	4632.4	3344.1	2804.4	2698.6	2728.4	2761.0	2774.6	2809.8	2782.7
17.5°	6669.3	5880.0	4144.2	2921.0	2611.9	2630.8	2682.3	2720.3	2742.0	2766.4	2731.2
20°	6696.4	5779.6	3685.8	2668.8	2544.0	2579.3	2649.8	2679.7	2706.8	2717.6	2676.9
22.5°	6671.9	5573.6	3281.7	2465.4	2478.9	2525.0	2587.4	2620.0	2603.7	2560.3	2535.9
25°	6606.9	5283.3	2861.3	2335.2	2386.7	2468.1	2516.9	2492.5	2462.7	2438.3	2430.1
27.5°	6604.1	4928.0	2557.6	2215.8	2308.0	2419.2	2403.0	2381.3	2394.9	2375.9	2354.2
30°	6617.7	4583.6	2308.0	2148.1	2251.1	2305.4	2324.3	2302.6	2318.9	2283.6	2294.5
32.5°	6547.2	4247.3	2145.3	2069.4	2183.3	2180.6	2243.0	2259.3	2221.3	2148.1	2158.9
35°	6577.0	3976.1	2007.0	2034.2	2107.4	2107.4	2156.1	2137.2	2036.8	1993.4	2004.3
37.5°	6783.1	3710.2	1939.2	1985.3	2034.2	2055.8	2039.6	1958.2	1933.8	1933.8	1939.2
40°	6978.4	3482.5	1898.5	1974.5	1966.3	1979.9	1860.6	1868.7	1868.7	1871.4	1857.8
42.5°	7152.0	3327.8	1866.0	1909.3	1923.0	1852.4	1779.2	1771.1	1790.0	1787.4	1776.5
45°	7214.4	3200.4	1819.8	1836.1	1847.0	1730.4	1695.1	1678.8	1700.5	1708.7	1719.5
47.5°	6975.7	3094.6	1768.3	1735.8	1714.1	1638.2	1592.1	1562.2	1589.3	1635.5	1646.3
50°	6669.3	2956.3	1687.0	1624.6	1578.4	1546.0	1513.4	1483.6	1502.6	1535.1	1526.9
52.5°	6216.3	2739.3	1583.9	1518.8	1440.2	1448.3	1418.5	1402.2	1413.1	1413.1	1404.9
55°	5570.8	2251.1	1410.3	1364.2	1299.2	1320.8	1326.2	1304.6	1282.9	1301.8	1285.6
57.5°	3802.5	1589.3	1258.4	1258.4	1193.4	1223.2	1220.5	1168.9	1117.4	1122.8	1112.0
60°	2199.6	1266.6	1160.8	1150.0	1082.2	1106.5	1112.0	1076.7	998.1	1003.5	992.7
62.5°	1250.3	1082.2	1014.4	998.1	984.5	1006.2	1006.2	960.1	892.3	897.7	886.9
65°	1063.2	1003.5	905.9	903.2	897.7	903.2	881.4	832.6	773.0	748.5	751.3
67.5°	965.5	927.5	832.6	808.2	791.9	789.3	748.5	702.4	675.3	653.6	650.9
70°	846.2	816.4	745.9	713.3	697.0	659.1	618.4	588.6	550.6	539.7	550.6
72.5°	669.9	667.2	640.1	604.8	569.6	539.7	504.5	463.8	428.5	420.4	401.4
75°	463.8	469.2	474.7	469.2	439.3	401.4	360.7	328.2	284.8	260.3	254.9
77.5°	303.7	311.9	320.0	309.2	290.2	254.9	227.9	187.1	154.6	135.6	132.9
80°	222.4	233.3	238.7	230.5	208.8	181.7	151.9	119.3	94.9	78.7	78.7
82.5°	170.9	181.7	187.1	173.6	151.9	130.2	108.5	84.1	65.1	51.5	48.8
85°	59.7	56.9	67.8	70.5	84.1	78.7	65.1	48.8	38.0	27.1	24.4
87.5°	16.3	16.3	18.9	18.9	16.3	13.5	13.5	13.5	10.9	8.1	8.1
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)