

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: P652378

Luminaire Tested: **GALN-SA5B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652378
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-SA5B-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 21624.7 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

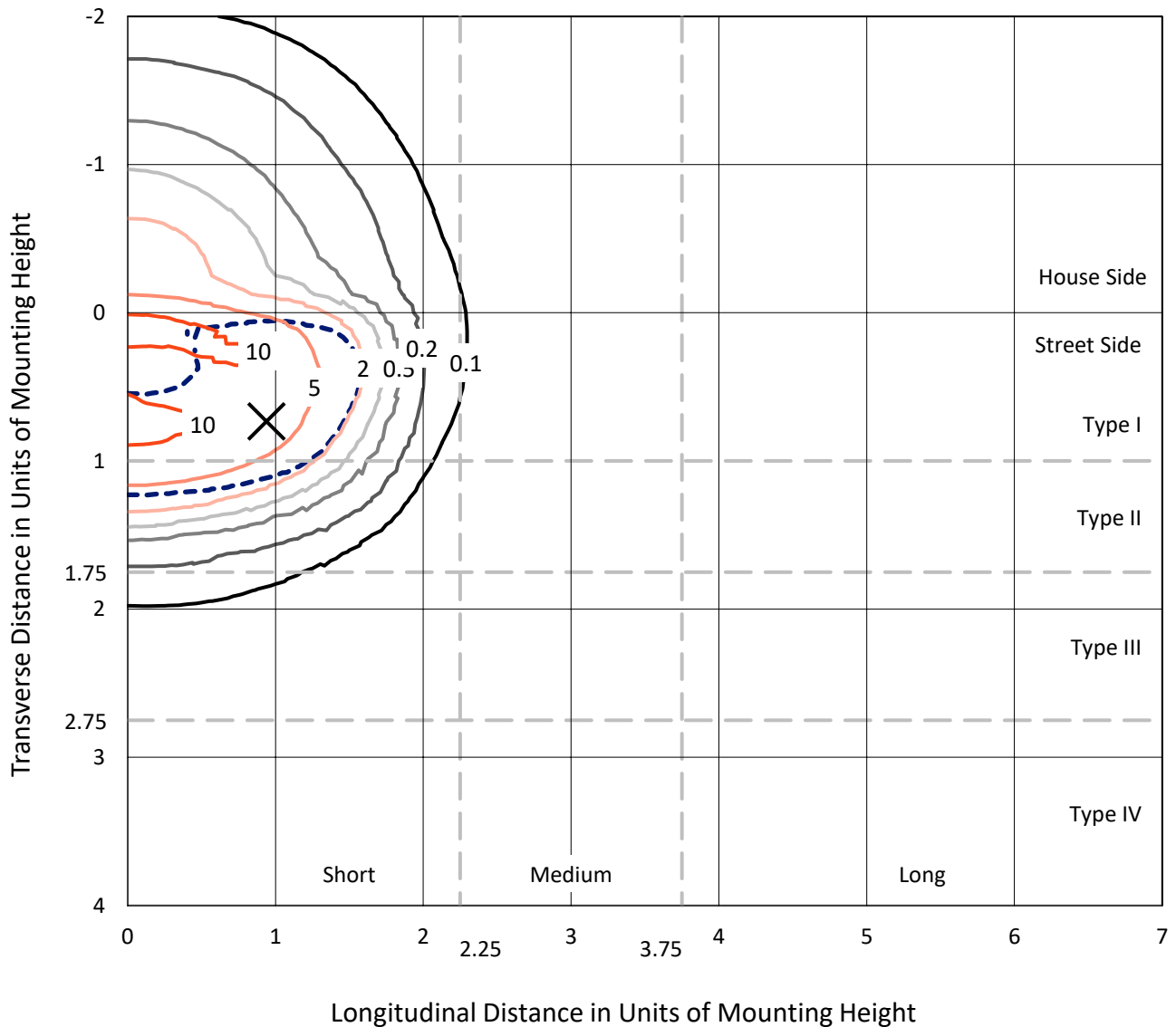
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

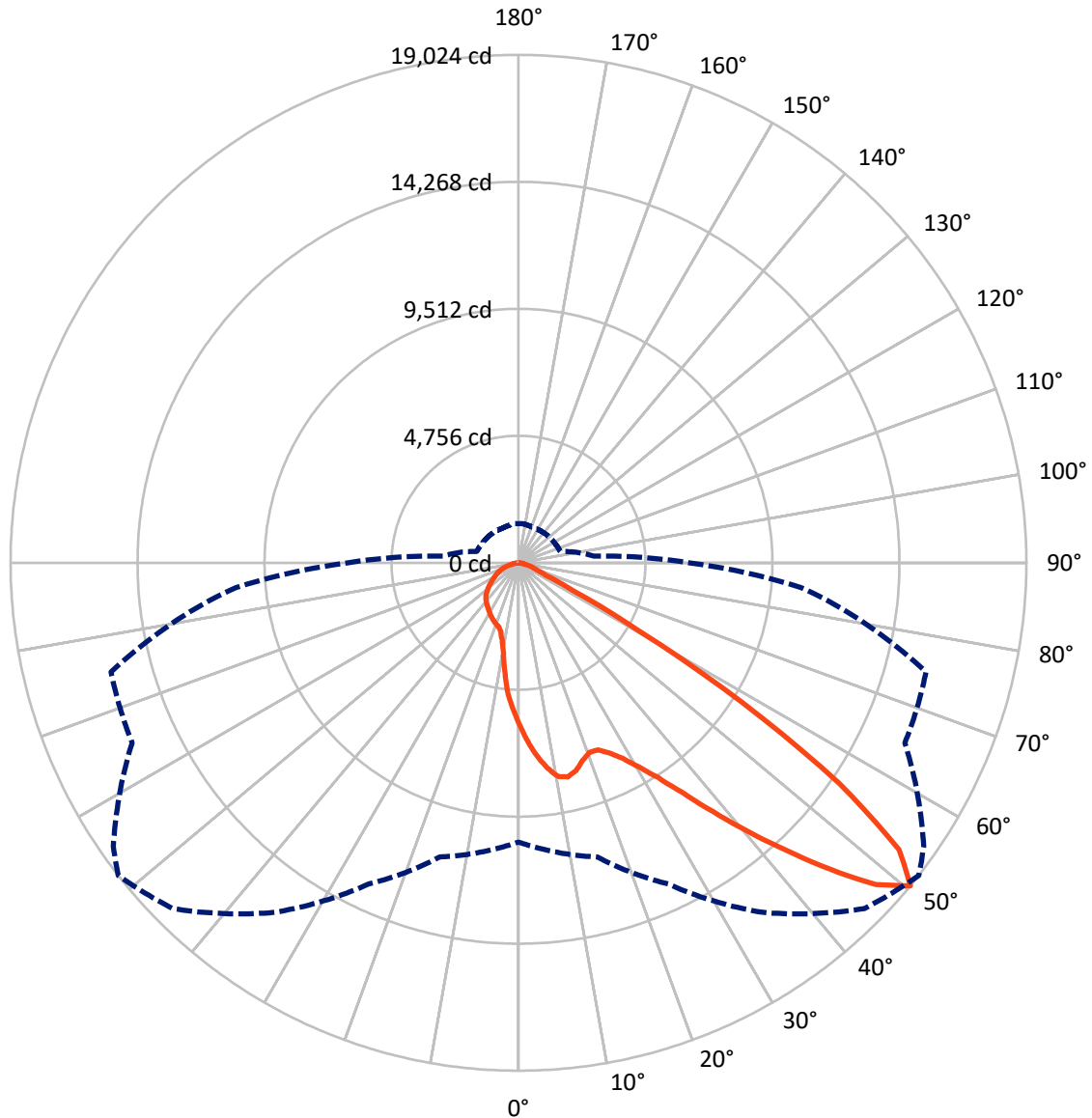
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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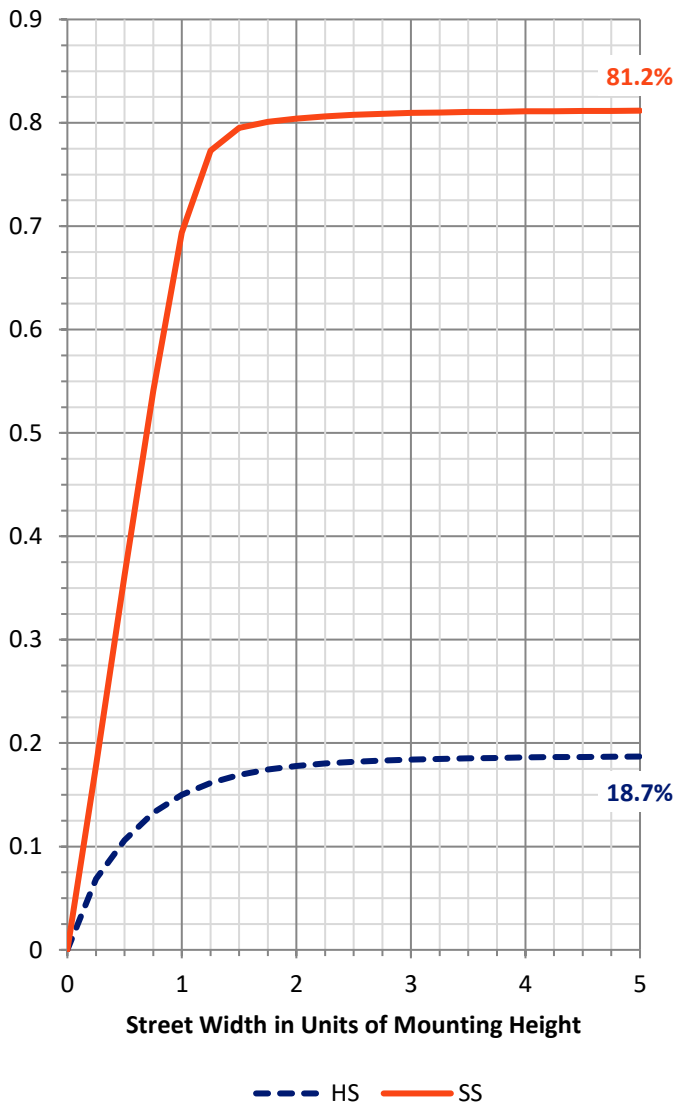
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4064.9	0.0	4064.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17559.7	0.0	17559.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	21624.7	0.0	21624.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.8	2.6
10°-20°	1505.8	7.0
20°-30°	2536.5	11.7
30°-40°	4256.5	19.7
40°-50°	6511.4	30.1
50°-60°	4747.4	22.0
60°-70°	1056.5	4.9
70°-80°	381.1	1.8
80°-90°	67.5	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°	21624.7	100.0
0°-180°	21624.7	100.0

Coefficient of Utilization



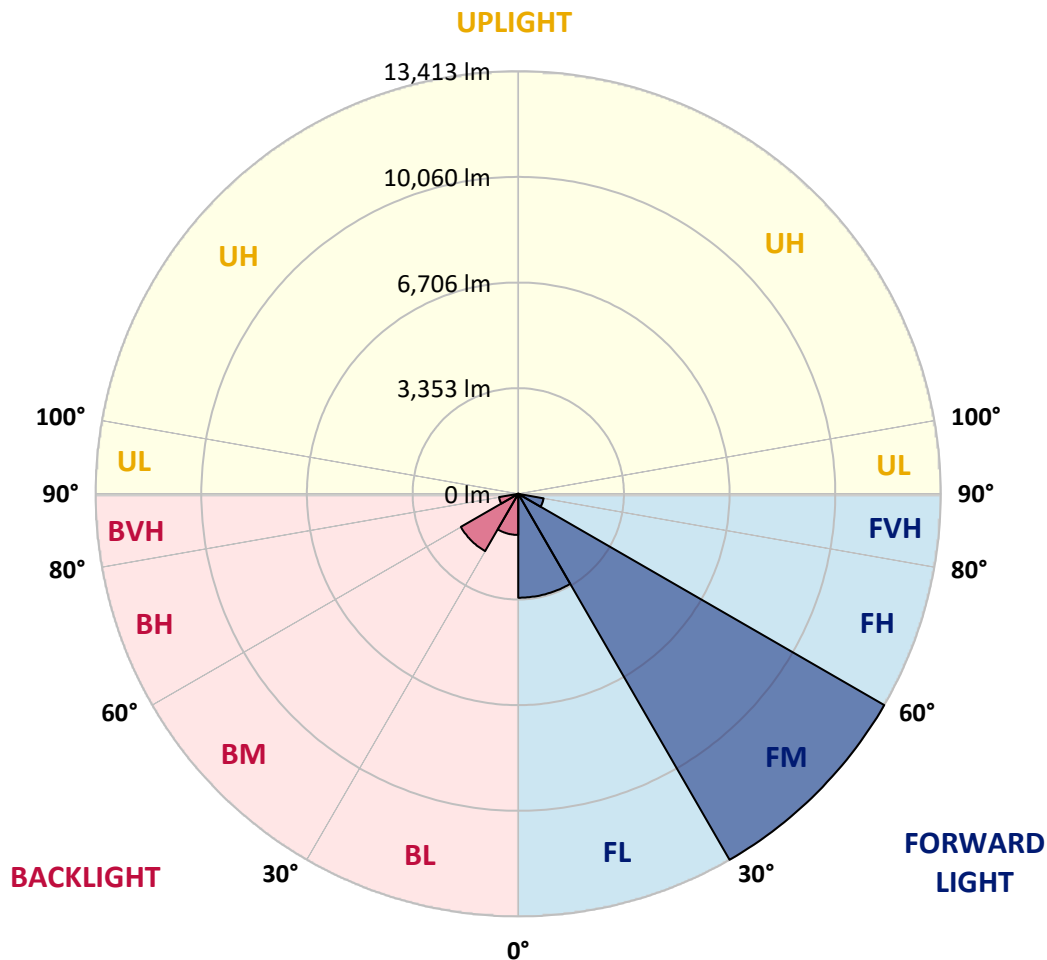
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3298.5	15.3			
FM (30°-60°)	13412.7	62.0			
FH (60°-80°)	818.3	3.8			G1/1800
FVH (80°-90°)	30.2	0.1			G1/100
BL (0°-30°)	1305.7	6.0	B3/2500		
BM (30°-60°)	2102.7	9.7	B2/2500		
BH (60°-80°)	619.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	37.2	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°	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7
2.5°	7177.2	7039.0	7054.6	6955.7	6848.8	6817.5	6708.1	6603.8	6525.7	6358.8	6205.1
5°	7844.3	7802.6	7740.1	7661.8	7581.1	7383.1	7270.9	7140.7	6854.0	6596.0	6340.6
7.5°	7940.7	7932.9	7966.8	7966.8	7995.5	7919.9	7760.9	7669.7	7364.8	6945.2	6470.9
10°	7263.1	7286.6	7450.8	7664.5	7961.6	8167.5	8141.4	8117.9	7784.4	7211.1	6624.6
12.5°	6723.7	6671.6	6768.0	6950.4	7396.1	7893.8	8230.0	8232.6	8146.6	7635.9	6736.7
15°	6418.8	6455.3	6481.3	6567.3	6903.5	7479.4	8071.1	8245.7	8623.5	7935.5	6913.9
17.5°	6614.2	6491.8	6486.5	6507.4	6679.4	7112.0	7776.6	8076.2	8884.2	8321.2	7132.9
20°	6869.6	6867.0	6794.0	6768.0	6765.4	7151.1	7583.7	7990.3	9022.2	8821.6	7354.4
22.5°	7317.9	7317.9	7198.0	7140.7	7018.1	7333.5	7609.8	7886.0	9251.6	9165.6	7461.2
25°	8068.5	7945.9	7740.1	7599.4	7529.0	7641.1	7886.0	8133.6	9452.3	9530.5	7682.7
27.5°	8761.6	8568.8	8467.2	8224.8	8131.0	8065.9	8289.9	8540.1	9686.8	10098.6	7802.6
30°	9548.7	9514.8	9332.4	9019.6	8787.7	8667.9	8873.7	9121.3	10116.8	10679.7	8078.8
32.5°	10956.0	10648.5	10400.9	10017.7	9639.9	9384.5	9587.7	9752.0	10830.9	11287.0	8381.2
35°	12475.3	12376.3	11948.8	11258.3	10679.7	10450.4	10570.3	10692.7	11662.2	12214.7	8889.4
37.5°	13968.6	13833.1	13481.2	12900.1	12196.4	11730.0	11816.0	11959.3	12595.2	13465.6	9509.6
40°	15042.3	14875.5	14698.3	14612.3	13913.8	13275.4	13225.9	13262.3	13856.6	14638.4	10197.6
42.5°	15120.5	15326.4	15381.1	15727.7	15563.5	15039.7	14734.8	14742.6	15060.5	15798.1	10893.4
45°	14956.3	14766.0	15170.0	16116.0	16658.1	16903.0	16389.7	16324.5	15805.9	16470.4	11240.0
47.5°	13233.7	13285.8	13968.6	15464.5	17030.8	18125.3	18005.4	17789.1	16204.6	16447.0	11185.3
50°	10460.8	10776.2	11409.4	13272.7	15988.3	18318.2	19024.4	18524.0	15967.5	15800.7	10627.6
52.5°	6966.1	7096.4	7513.3	9918.8	12855.8	16374.0	17851.7	17966.4	15748.6	14953.7	9921.4
55°	3101.3	3090.8	3677.2	5180.9	8065.9	12459.7	14586.2	15284.7	14906.8	14091.1	9233.3
57.5°	1313.5	1357.8	1597.6	2238.7	3966.5	7518.5	9882.3	10494.7	11464.2	11571.0	7083.3
60°	888.7	893.9	959.1	1120.6	1660.0	3531.3	5183.5	5918.5	6611.6	6564.8	3758.0
62.5°	698.5	716.7	766.2	831.3	985.1	1602.8	2319.4	2728.5	2772.9	2332.4	1425.5
65°	596.8	599.4	648.9	703.7	771.4	933.0	1118.0	1138.9	1151.9	1110.2	1047.6
67.5°	492.6	497.8	536.9	599.4	662.0	714.1	766.2	792.2	852.2	969.4	953.9
70°	390.9	398.7	432.6	484.8	542.0	573.3	638.5	662.0	716.7	807.9	844.4
72.5°	297.1	299.7	328.3	364.8	417.0	448.3	503.0	529.1	565.5	643.7	677.6
75°	213.7	221.5	242.4	260.6	268.4	289.3	341.4	370.0	422.2	456.1	458.7
77.5°	112.0	117.2	122.4	122.4	148.5	187.6	221.5	237.2	273.7	299.7	286.7
80°	44.3	46.9	60.0	80.8	104.3	135.5	158.9	166.8	198.1	213.7	221.5
82.5°	26.1	28.7	39.1	57.4	75.6	96.5	114.6	122.4	143.3	161.6	166.8
85°	13.0	15.6	23.5	36.5	49.5	60.0	57.4	54.7	54.7	52.1	54.7
87.5°	5.2	5.2	7.8	7.8	7.8	10.4	13.0	13.0	13.0	15.6	15.6
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°	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7	6095.7
2.5°	6103.5	5999.2	5902.8	5725.5	5532.7	5478.0	5253.9	5173.1	5115.7	5048.0	5027.2
5°	6134.8	5996.6	5686.5	5329.4	5045.4	4680.5	4440.7	4182.8	3995.1	3948.2	3935.2
7.5°	6199.9	5962.7	5428.5	4889.0	4307.9	3812.7	3434.8	3231.5	3051.7	3041.3	3023.1
10°	6272.9	5861.1	5147.0	4300.0	3557.3	3098.7	2871.9	2783.3	2739.0	2728.5	2723.3
12.5°	6332.8	5840.2	4831.7	3726.7	3025.7	2749.4	2681.7	2673.9	2692.0	2697.3	2707.7
15°	6358.8	5756.8	4451.2	3213.3	2694.6	2593.1	2621.7	2653.0	2666.1	2699.9	2673.9
17.5°	6408.3	5650.0	3982.1	2806.8	2509.6	2527.9	2577.4	2613.9	2634.8	2658.2	2624.3
20°	6434.4	5553.5	3541.7	2564.4	2444.5	2478.3	2546.1	2574.8	2600.9	2611.3	2572.2
22.5°	6410.9	5355.5	3153.3	2368.9	2382.0	2426.3	2486.2	2517.4	2501.8	2460.2	2436.7
25°	6348.5	5076.6	2749.4	2243.9	2293.3	2371.5	2418.5	2395.0	2366.3	2342.9	2335.0
27.5°	6345.8	4735.3	2457.6	2129.2	2217.8	2324.6	2309.0	2288.1	2301.1	2282.9	2262.0
30°	6358.8	4404.3	2217.8	2064.0	2163.1	2215.2	2233.4	2212.6	2228.2	2194.3	2204.8
32.5°	6291.1	4081.1	2061.4	1988.5	2097.9	2095.3	2155.2	2170.9	2134.4	2064.0	2074.4
35°	6319.8	3820.5	1928.5	1954.6	2025.0	2025.0	2071.8	2053.6	1957.2	1915.5	1925.9
37.5°	6517.8	3565.1	1863.3	1907.6	1954.6	1975.4	1959.8	1881.6	1858.1	1858.1	1863.3
40°	6705.5	3346.2	1824.3	1897.2	1889.4	1902.4	1787.8	1795.6	1795.6	1798.2	1785.2
42.5°	6872.2	3197.7	1793.0	1834.6	1847.7	1780.0	1709.6	1701.8	1720.0	1717.4	1707.0
45°	6932.2	3075.2	1748.7	1764.3	1774.8	1662.7	1628.8	1613.2	1634.0	1641.8	1652.2
47.5°	6702.9	2973.5	1699.2	1667.9	1647.0	1574.1	1529.8	1501.1	1527.2	1571.5	1581.9
50°	6408.3	2840.6	1620.9	1561.1	1516.7	1485.5	1454.2	1425.5	1443.7	1475.0	1467.2
52.5°	5973.1	2632.2	1522.0	1459.4	1383.9	1391.7	1363.0	1347.4	1357.8	1357.8	1350.0
55°	5352.9	2163.1	1355.2	1310.9	1248.3	1269.2	1274.4	1253.5	1232.7	1250.9	1235.3
57.5°	3653.7	1527.2	1209.2	1209.2	1146.7	1175.4	1172.8	1123.2	1073.7	1078.9	1068.5
60°	2113.5	1217.0	1115.4	1105.0	1039.8	1063.3	1068.5	1034.6	959.1	964.3	953.9
62.5°	1201.4	1039.8	974.6	959.1	946.0	966.9	966.9	922.6	857.4	862.6	852.2
65°	1021.6	964.3	870.4	867.8	862.6	867.8	847.0	800.0	742.8	719.3	721.9
67.5°	927.8	891.3	800.0	776.6	760.9	758.3	719.3	675.0	648.9	628.1	625.5
70°	813.1	784.4	716.7	685.4	669.8	633.3	594.2	565.5	529.1	518.6	529.1
72.5°	643.7	641.1	615.0	581.1	547.2	518.6	484.8	445.6	411.8	403.9	385.7
75°	445.6	450.9	456.1	450.9	422.2	385.7	346.6	315.4	273.7	250.2	245.0
77.5°	291.9	299.7	307.6	297.1	278.9	245.0	218.9	179.8	148.5	130.3	127.7
80°	213.7	224.1	229.3	221.5	200.7	174.6	145.9	114.6	91.2	75.6	75.6
82.5°	164.2	174.6	179.8	166.8	145.9	125.1	104.3	80.8	62.6	49.5	46.9
85°	57.4	54.7	65.2	67.8	80.8	75.6	62.6	46.9	36.5	26.1	23.5
87.5°	15.6	15.6	18.2	18.2	15.6	13.0	13.0	13.0	10.4	7.8	7.8
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)