

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: P455066

Luminaire Tested: **GALN-SA6B-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28495 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

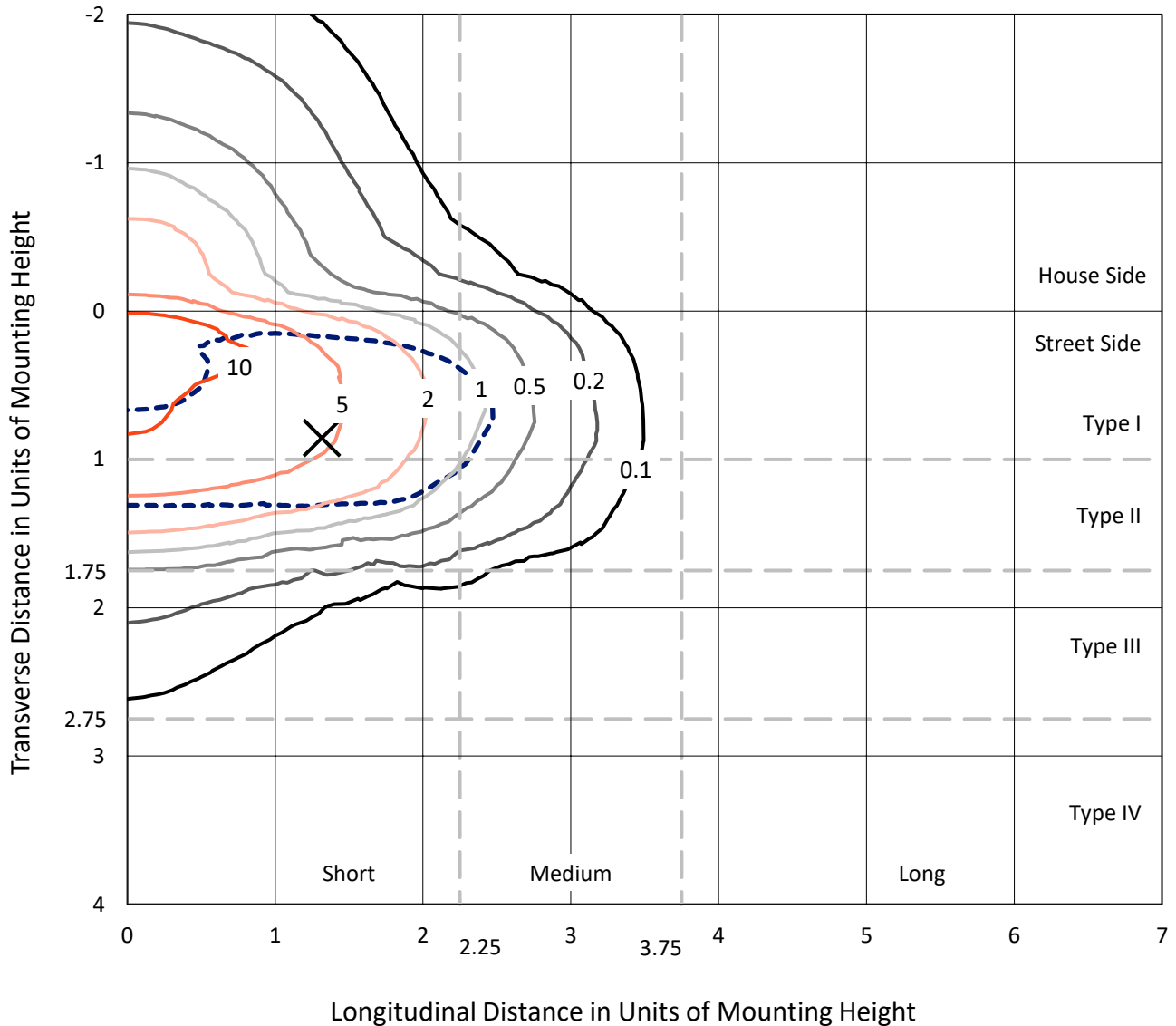
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

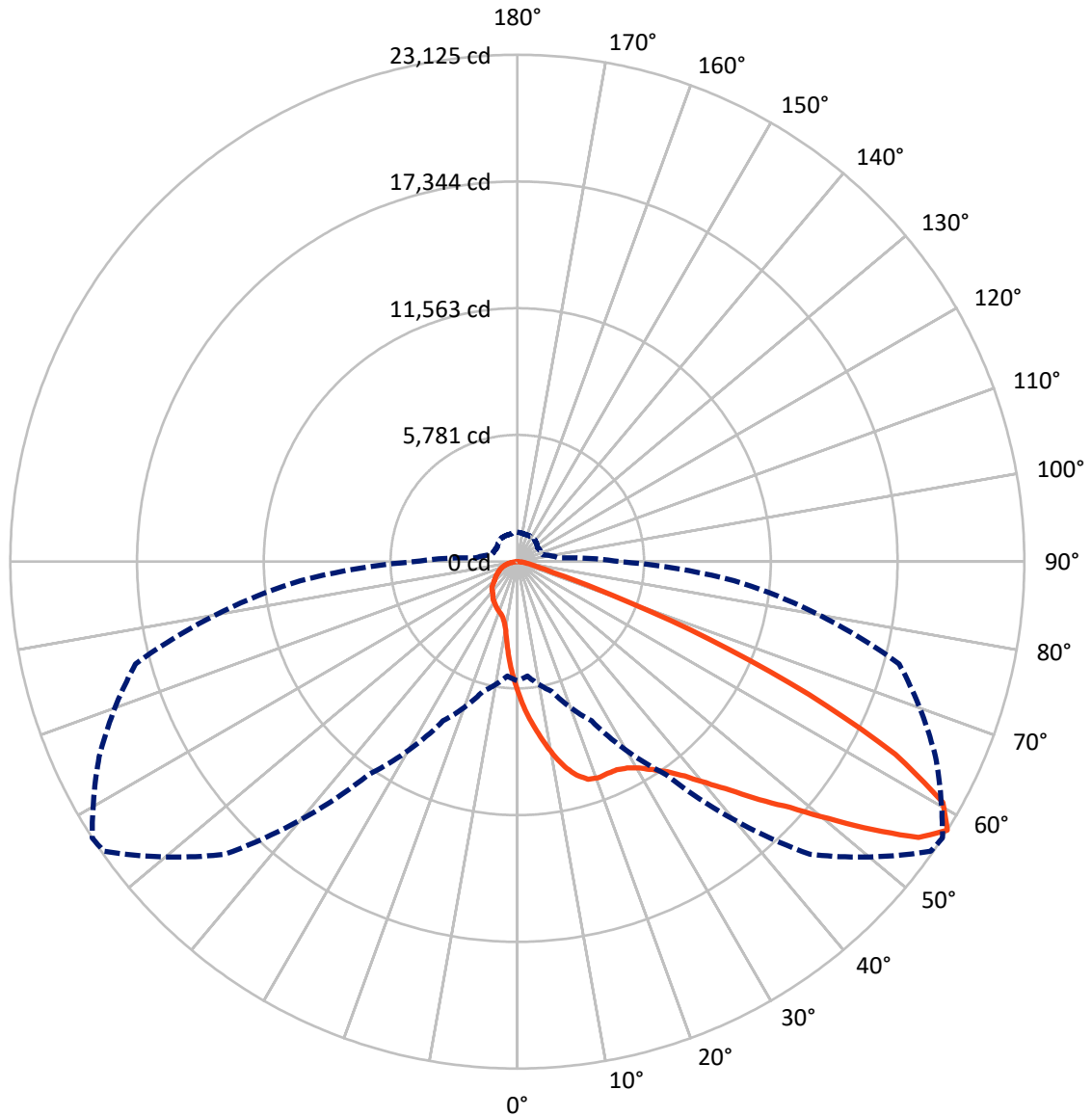
✕ Max cd
 - - - 1/2 Max cd



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 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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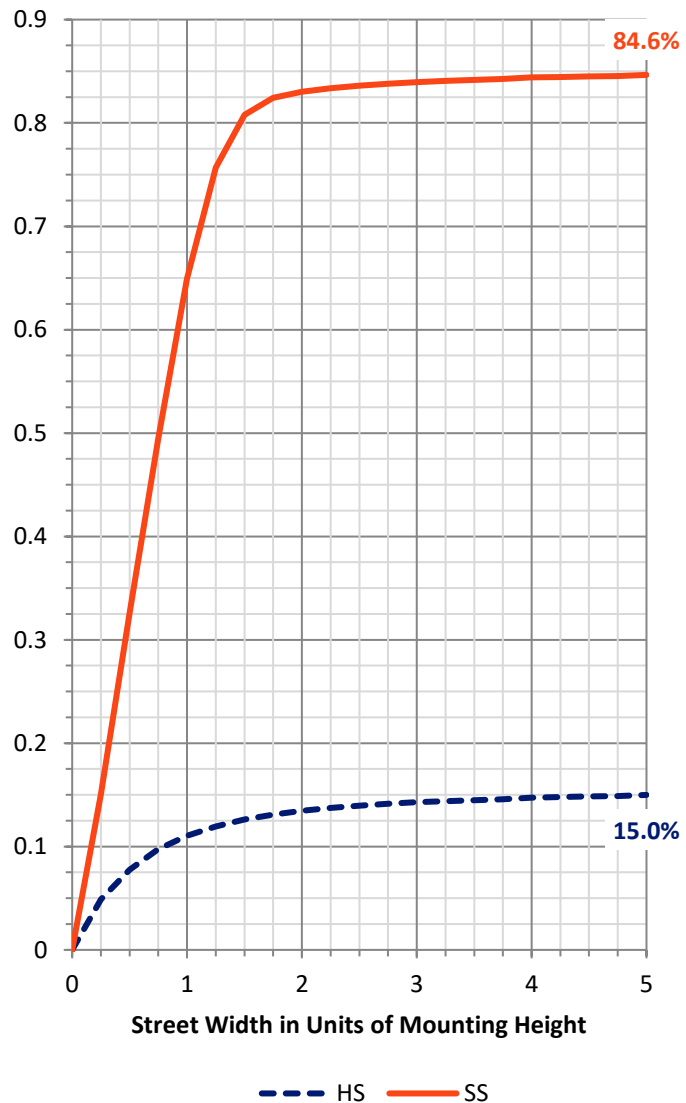
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4333.3	0.0	4333.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	24161.7	0.0	24161.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	28495.0	0.0	28495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.4	2.0
10°-20°	1695.6	6.0
20°-30°	2815.6	9.9
30°-40°	4241.1	14.9
40°-50°	6367.6	22.3
50°-60°	7137.3	25.0
60°-70°	4177.1	14.7
70°-80°	1235.6	4.3
80°-90°	249.7	0.9
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°	28495.0	100.0
0°-180°	28495.0	100.0

Coefficient of Utilization



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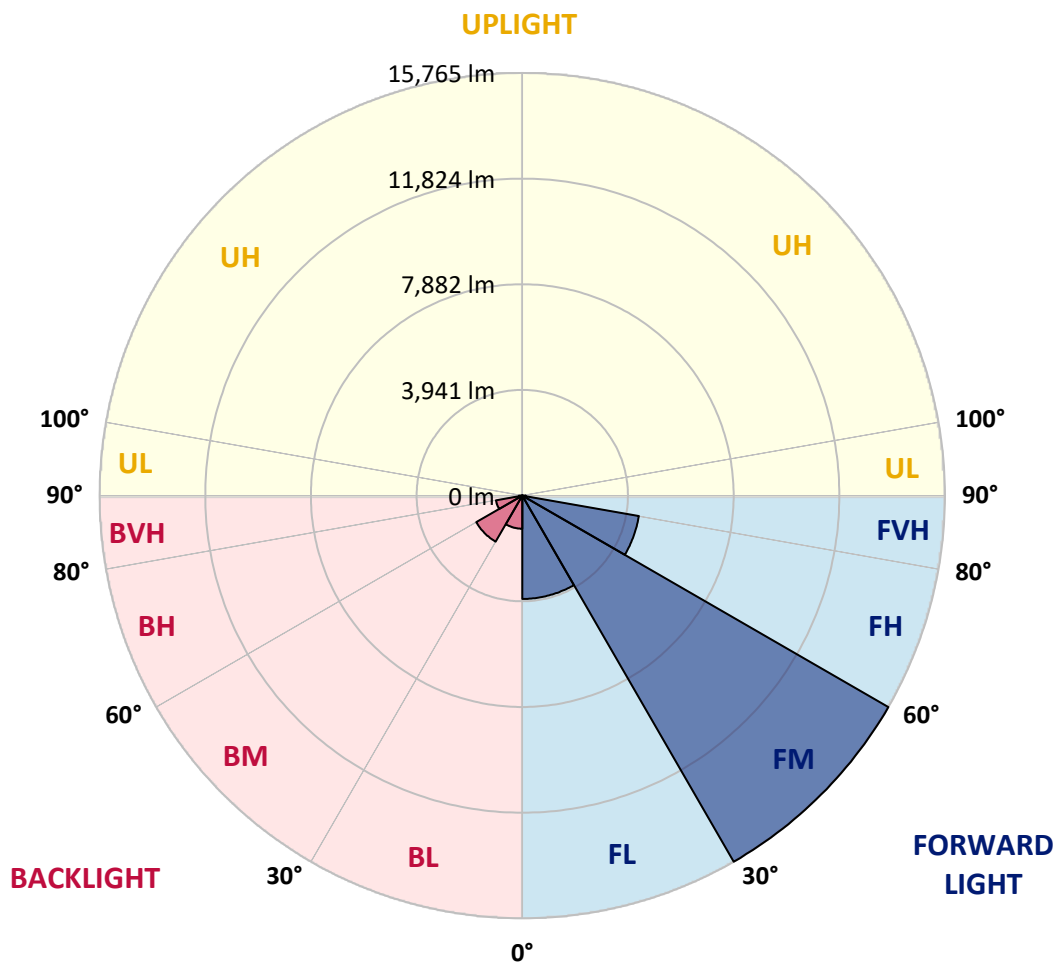
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3851.9	13.5			
FM	(30°-60°)	15764.7	55.3			
FH	(60°-80°)	4415.6	15.5			G2/5000
FVH	(80°-90°)	129.6	0.5			G2/225
BL	(0°-30°)	1234.7	4.3	B3/2500		
BM	(30°-60°)	1981.4	7.0	B2/2500		
BH	(60°-80°)	997.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	120.2	0.4			G2/225
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°	55°	57°	65°	75°	85°
0°	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5
2.5°	7438.6	7357.5	7293.6	7237.4	7164.1	6966.0	6767.9	6764.8	6607.3	6363.9	6114.4
5°	8650.6	8541.4	8555.4	8380.8	8206.1	7919.1	7499.5	7477.6	7142.3	6686.8	6223.6
7.5°	9439.8	9441.4	9397.7	9297.9	9109.2	8783.2	8307.4	8199.8	7733.4	7042.5	6348.3
10°	9399.3	9441.4	9514.7	9600.5	9658.2	9497.6	9063.9	8932.9	8326.2	7473.0	6487.2
12.5°	8859.6	8925.1	9029.6	9244.9	9592.7	9857.9	9709.7	9603.6	9012.5	7901.9	6640.0
15°	8522.7	8561.7	8619.4	8764.5	9138.8	9773.6	10157.4	10101.2	9659.8	8387.0	6811.6
17.5°	8419.7	8458.7	8477.5	8566.4	8833.1	9483.5	10333.6	10433.4	10233.8	8833.1	6984.7
20°	8522.7	8541.4	8541.4	8594.4	8803.5	9313.5	10325.8	10527.0	10704.8	9368.1	7147.0
22.5°	8792.5	8800.3	8789.4	8808.1	8964.1	9360.3	10252.5	10502.1	11085.4	9822.0	7273.3
25°	9230.8	9243.3	9171.6	9127.9	9241.8	9566.2	10293.1	10522.3	11383.3	10255.6	7357.5
27.5°	9728.4	9744.0	9656.7	9555.3	9608.3	9820.4	10452.2	10658.0	11606.4	10683.0	7410.6
30°	10338.3	10344.5	10197.9	10076.2	10041.9	10199.5	10723.6	10915.4	11884.0	11186.8	7490.1
32.5°	10962.2	11009.0	10820.3	10648.7	10591.0	10639.3	11124.4	11310.0	12214.7	11728.1	7618.0
35°	11810.7	11818.5	11592.4	11383.3	11193.1	11255.4	11637.6	11771.7	12671.7	12353.5	7798.9
37.5°	12869.8	12941.6	12629.6	12239.7	12005.7	11915.2	12258.4	12405.0	13312.8	13121.0	8071.9
40°	14045.9	14072.4	13805.7	13562.4	13135.0	12872.9	13110.0	13269.1	14103.6	14036.5	8388.5
42.5°	14785.2	14843.0	14863.2	14838.3	14517.0	14077.1	14167.6	14242.4	15039.5	14896.0	8713.0
45°	15034.8	15120.6	15410.7	16025.3	16059.6	15626.0	15415.4	15487.2	16059.6	15763.2	9023.4
47.5°	14621.5	14768.1	15303.1	16563.4	17507.1	17539.8	16905.0	16747.5	16989.2	16482.3	9248.0
50°	13553.0	13584.2	14403.1	16228.1	18185.6	19369.5	18712.8	18419.6	17872.1	17014.2	9402.4
52.5°	11899.6	11935.5	12621.8	14669.8	17767.6	20648.5	20827.9	20303.8	18769.0	17427.5	9503.8
55°	8833.1	9040.5	9795.5	11774.9	15786.6	20528.4	22509.3	22211.4	19853.0	17755.1	9662.9
57.5°	5431.2	5240.9	6136.2	8011.1	11873.1	18878.1	23028.7	23125.4	21046.2	18029.6	9929.6
60°	2498.8	2536.2	2905.9	4131.9	7237.4	14768.1	21690.4	22301.9	21706.0	18020.3	9996.7
62.5°	1722.0	1687.7	1594.1	1814.0	3300.5	9340.0	18321.3	19357.0	20383.3	17460.3	9730.0
65°	1539.5	1505.2	1324.3	1263.4	1516.1	4071.1	13319.0	14626.1	17162.4	16047.1	9065.5
67.5°	1438.1	1391.3	1204.2	1085.6	1082.5	1620.6	7853.5	9427.4	12729.4	13567.1	7855.1
70°	1332.1	1294.6	1109.0	978.0	921.8	1018.5	3451.8	4518.7	8265.3	9776.8	6119.1
72.5°	1226.0	1182.3	1015.4	875.0	801.7	762.7	1322.7	1720.4	4670.0	5861.7	3751.3
75°	1071.6	1049.7	907.8	792.4	712.8	616.1	839.2	957.7	2233.6	2692.2	1882.7
77.5°	937.4	914.0	806.4	692.5	634.8	500.7	595.8	650.4	942.1	1091.9	850.1
80°	686.3	709.7	680.1	611.4	566.2	393.1	400.9	446.1	560.0	619.2	519.4
82.5°	435.2	478.9	524.1	471.1	428.9	310.4	277.6	294.8	382.1	405.5	230.8
85°	182.5	185.6	304.2	287.0	244.9	184.1	166.9	176.3	204.3	213.7	107.6
87.5°	70.2	68.6	107.6	99.8	76.4	53.0	53.0	59.3	81.1	74.9	34.3
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°	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5
2.5°	6006.8	5896.0	5676.1	5403.1	5203.5	4978.8	4780.8	4638.8	4585.8	4560.8	4514.0
5°	6002.1	5783.7	5328.2	4850.9	4467.2	4074.2	3741.9	3526.7	3508.0	3364.5	3350.4
7.5°	6003.6	5669.8	4944.5	4242.6	3657.7	3255.3	2980.8	2909.0	2823.2	2801.4	2812.3
10°	6008.3	5524.8	4532.7	3640.5	3074.3	2810.7	2707.8	2679.7	2682.8	2692.2	2693.8
12.5°	6014.5	5384.4	4105.4	3183.5	2746.8	2637.6	2626.7	2651.6	2678.2	2698.4	2703.1
15°	6022.3	5223.7	3688.9	2815.4	2583.0	2573.7	2609.5	2651.6	2689.1	2718.7	2723.4
17.5°	6013.0	5036.6	3339.5	2589.3	2492.5	2537.8	2597.1	2650.1	2684.4	2712.5	2715.6
20°	5991.2	4827.5	3002.6	2430.2	2436.4	2509.7	2573.7	2623.6	2661.0	2675.0	2686.0
22.5°	5906.9	4578.0	2709.4	2306.9	2369.3	2470.7	2547.1	2576.8	2534.7	2505.0	2512.8
25°	5763.4	4253.5	2436.4	2207.1	2308.5	2416.1	2494.1	2422.4	2388.0	2375.6	2381.8
27.5°	5584.0	3897.9	2230.5	2102.6	2230.5	2355.3	2333.4	2321.0	2305.4	2285.1	2289.8
30°	5390.6	3550.1	2055.8	2021.5	2146.3	2218.0	2227.4	2247.7	2230.5	2199.3	2211.8
32.5°	5211.3	3222.5	1923.2	1952.9	2087.0	2076.1	2146.3	2169.7	2090.1	1985.6	1990.3
35°	5058.4	2918.4	1823.4	1885.8	1985.6	1990.3	2060.5	1979.4	1893.6	1843.7	1846.8
37.5°	4943.0	2681.3	1757.9	1828.1	1856.1	1915.4	1878.0	1835.9	1825.0	1790.6	1792.2
40°	4874.3	2473.8	1715.8	1782.8	1778.2	1818.7	1698.6	1740.7	1756.3	1745.4	1747.0
42.5°	4805.7	2327.2	1672.1	1720.4	1718.9	1639.3	1612.8	1648.7	1689.3	1693.9	1690.8
45°	4751.1	2213.3	1626.9	1625.3	1656.5	1531.7	1523.9	1545.8	1603.5	1631.5	1630.0
47.5°	4690.3	2118.2	1558.2	1514.6	1523.9	1464.6	1452.2	1461.5	1531.7	1576.9	1589.4
50°	4613.9	2023.0	1472.4	1413.2	1374.2	1402.3	1405.4	1406.9	1477.1	1528.6	1539.5
52.5°	4553.0	1951.3	1374.2	1330.5	1283.7	1346.1	1369.5	1372.6	1414.7	1456.8	1464.6
55°	4588.9	1910.7	1277.5	1246.3	1204.2	1288.4	1333.6	1339.9	1349.2	1380.4	1385.1
57.5°	4696.5	1920.1	1199.5	1158.9	1127.7	1219.8	1296.2	1300.9	1294.6	1332.1	1338.3
60°	4729.3	1915.4	1141.8	1062.2	1043.5	1146.4	1241.6	1251.0	1249.4	1304.0	1314.9
62.5°	4592.0	1856.1	1084.1	981.1	968.6	1071.6	1165.2	1202.6	1210.4	1288.4	1302.4
65°	4269.1	1734.5	1007.6	895.3	895.3	992.0	1091.9	1143.3	1165.2	1269.7	1285.3
67.5°	3843.3	1591.0	929.6	822.0	818.9	915.6	1013.9	1066.9	1101.2	1243.2	1252.5
70°	3189.8	1397.6	832.9	742.5	742.5	829.8	918.7	982.7	1032.6	1193.2	1193.2
72.5°	2185.3	1162.0	715.9	652.0	653.6	734.7	825.1	896.9	956.2	1093.4	1096.5
75°	1382.0	907.8	588.0	555.3	561.5	638.0	731.5	806.4	925.0	1080.9	1085.6
77.5°	734.7	638.0	467.9	460.1	467.9	538.1	642.6	745.6	928.1	937.4	921.8
80°	475.7	452.3	369.7	354.1	357.2	433.6	572.4	708.1	745.6	754.9	720.6
82.5°	258.9	287.0	262.0	246.4	246.4	338.5	488.2	563.1	535.0	444.5	424.3
85°	110.7	134.1	135.7	118.5	113.9	209.0	327.6	307.3	285.4	273.0	269.8
87.5°	31.2	43.7	43.7	32.8	25.0	57.7	65.5	18.7	0.0	1.6	3.1
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)