

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: P652410

Luminaire Tested: **GALN-SA5B-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24101.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

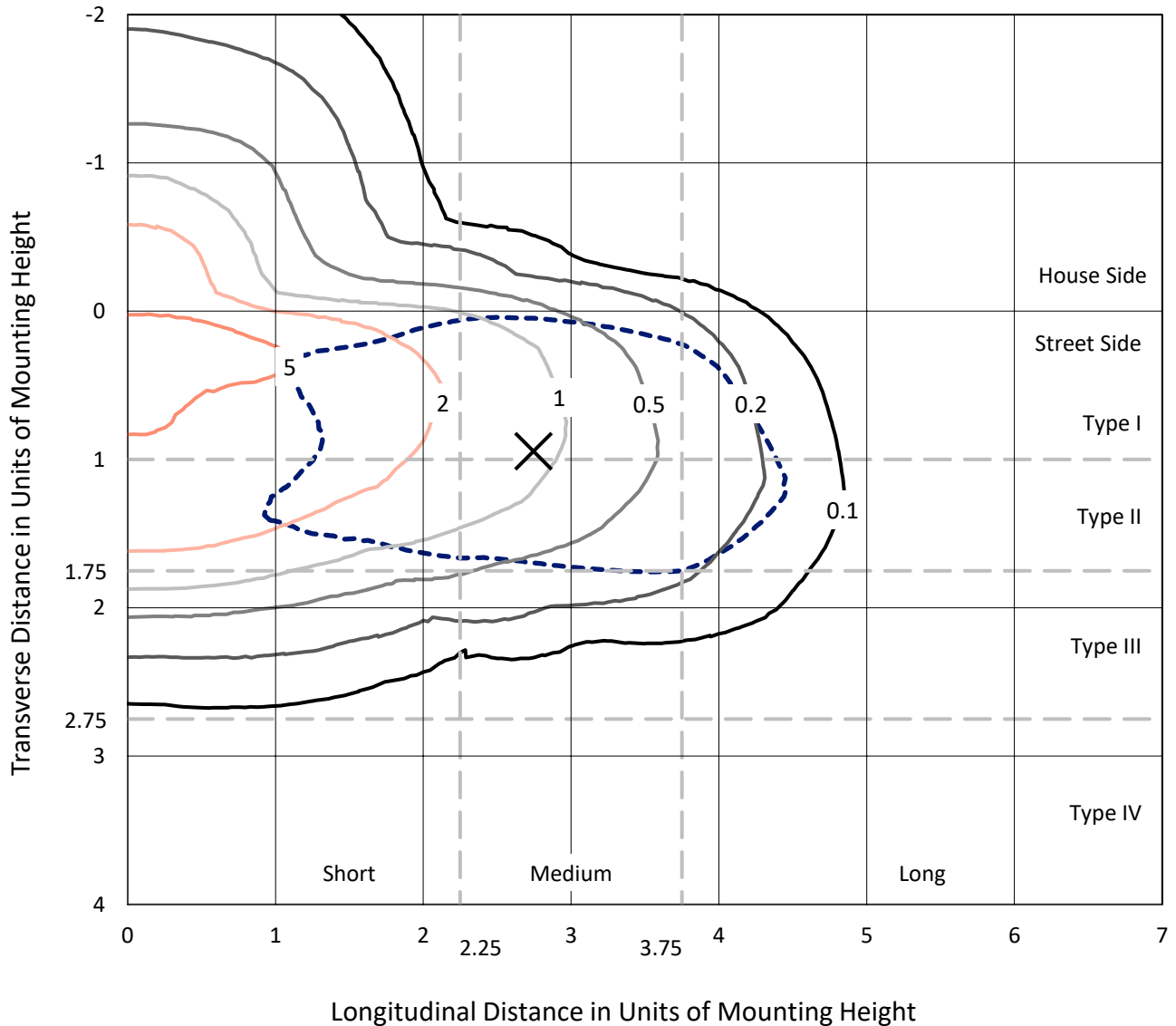
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

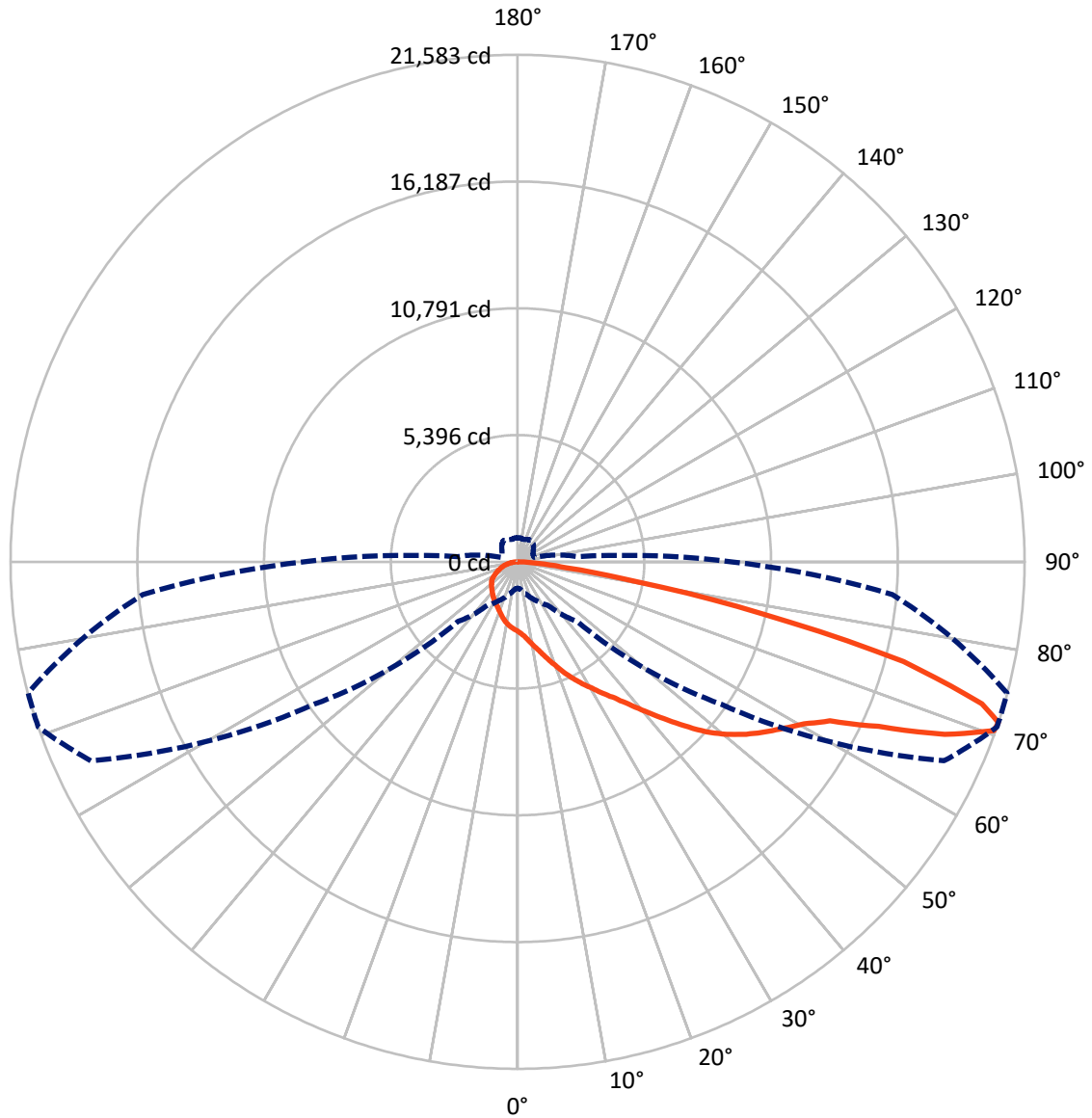
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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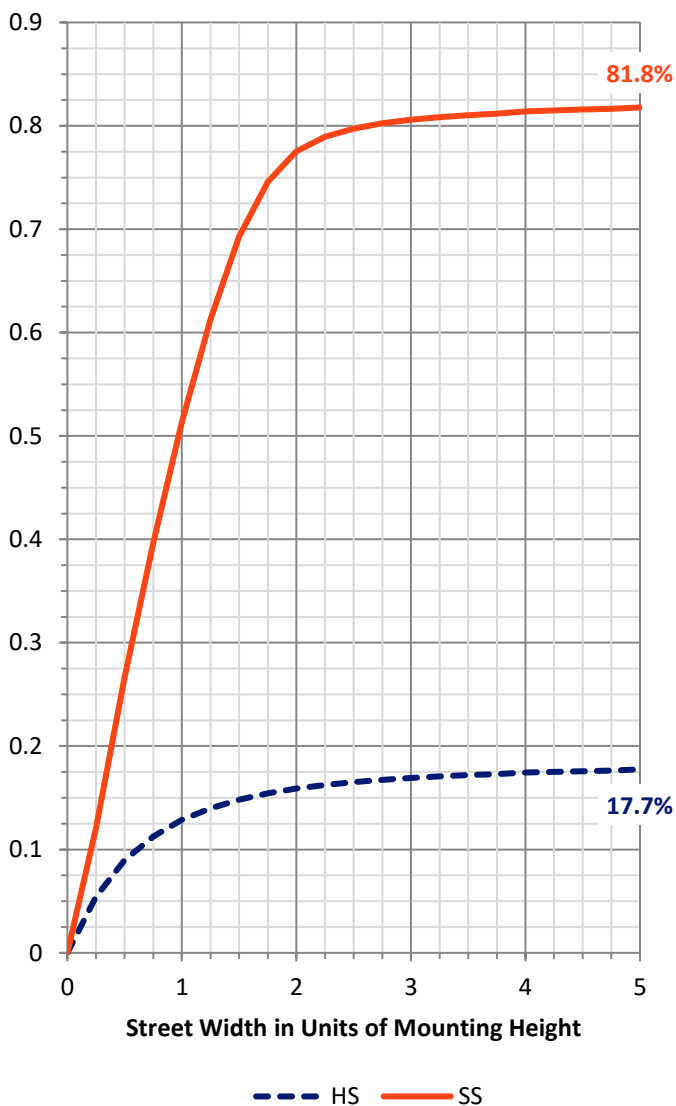
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4334.6	0.0	4334.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	19766.8	0.0	19766.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	24101.4	0.0	24101.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.2
10°-20°	964.9	4.0
20°-30°	1686.3	7.0
30°-40°	2508.1	10.4
40°-50°	3695.4	15.3
50°-60°	5173.7	21.5
60°-70°	5786.6	24.0
70°-80°	3534.7	14.7
80°-90°	454.7	1.9
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°	24101.4	100.0
0°-180°	24101.4	100.0

Coefficient of Utilization

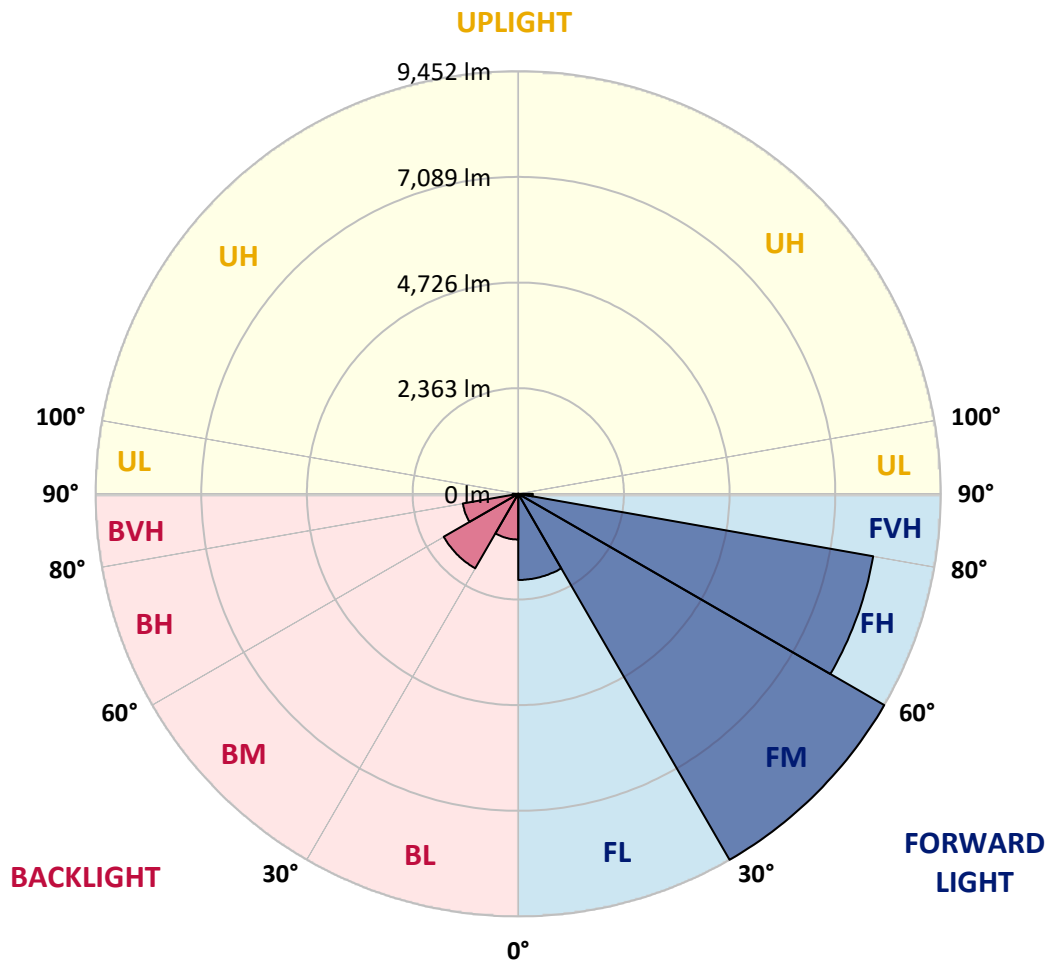


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1925.7	8.0			
FM (30°-60°)	9452.1	39.2			
FH (60°-80°)	8061.8	33.4			G4/12000
FVH (80°-90°)	327.2	1.4			G3/500
BL (0°-30°)	1022.5	4.2	B3/2500		
BM (30°-60°)	1925.2	8.0	B2/2500		
BH (60°-80°)	1259.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	127.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0
2.5°	3283.9	3268.0	3269.3	3246.8	3217.6	3185.8	3140.8	3101.0	3069.2	3050.7	2996.4
5°	3638.8	3622.9	3603.1	3554.1	3532.9	3454.7	3355.3	3265.3	3196.4	3158.0	3049.4
7.5°	3926.3	3922.3	3917.0	3889.2	3834.9	3726.3	3641.5	3485.2	3383.2	3310.3	3124.9
10°	4103.8	4110.4	4114.4	4119.7	4097.2	4040.2	3923.7	3726.3	3596.5	3503.7	3222.9
12.5°	4193.9	4200.5	4223.0	4272.0	4302.5	4295.9	4200.5	4007.1	3828.2	3706.4	3327.6
15°	4249.5	4260.1	4299.9	4364.8	4466.7	4531.6	4485.3	4306.5	4110.4	3966.1	3452.1
17.5°	4310.5	4322.4	4366.1	4458.8	4592.6	4733.0	4783.4	4629.7	4416.4	4244.2	3591.2
20°	4344.9	4360.8	4423.1	4544.9	4701.2	4905.2	5072.2	4991.3	4758.2	4567.5	3751.4
22.5°	4400.5	4413.7	4466.7	4596.6	4783.4	5039.0	5360.9	5343.7	5138.3	4892.0	3927.6
25°	4551.6	4572.8	4599.3	4677.4	4857.5	5175.4	5600.6	5719.9	5506.6	5231.1	4089.2
27.5°	4836.3	4853.6	4852.2	4862.8	4964.8	5293.3	5808.6	6092.1	5872.2	5574.1	4245.5
30°	5160.9	5167.5	5172.8	5148.9	5171.5	5413.9	5999.4	6460.4	6240.5	5926.5	4381.9
32.5°	5555.6	5568.8	5523.9	5462.9	5444.4	5592.7	6157.0	6828.7	6676.3	6284.2	4517.1
35°	6021.9	6056.4	5965.0	5857.6	5782.1	5849.7	6369.0	7204.8	7122.7	6741.2	4695.9
37.5°	6554.4	6596.8	6512.0	6301.4	6194.1	6212.6	6645.8	7669.8	7687.0	7261.8	4962.2
40°	6990.2	7045.9	7048.5	6750.5	6587.6	6608.7	6996.9	8170.5	8367.9	7905.6	5276.1
42.5°	7277.7	7332.0	7388.9	7214.1	7043.2	7163.8	7406.2	8713.6	9133.5	8687.1	5714.6
45°	7593.0	7642.0	7673.8	7594.3	7498.9	7811.5	7900.3	9291.2	9949.5	9560.1	6194.1
47.5°	7958.6	8012.9	8043.3	7967.8	7932.1	8379.8	8432.8	9830.3	10821.1	10407.9	6724.0
50°	8446.1	8487.1	8471.2	8423.5	8415.6	8815.6	8944.1	10335.0	11540.5	11320.5	7273.7
52.5°	9052.8	9101.7	9119.0	9051.4	9020.9	9127.0	9356.1	10794.7	12194.8	12104.8	7860.6
55°	9419.7	9497.8	9760.1	9866.1	9938.9	9529.6	9799.8	11302.0	12781.7	12931.4	8491.1
57.5°	8949.4	9050.1	9636.9	10166.8	10851.6	10536.4	10429.1	11831.9	13368.5	13732.8	9246.1
60°	7802.3	7824.7	8581.1	9557.5	10935.1	11830.5	11741.8	12674.4	14004.3	14540.8	10240.9
62.5°	5412.6	5460.3	6354.4	7912.2	9904.5	12296.8	13975.1	14128.8	14915.7	15750.2	11699.4
65°	2791.0	2728.8	3543.5	4972.7	7467.2	11189.4	15784.6	16803.3	16892.1	17641.8	13752.6
67.5°	1718.1	1745.9	2127.4	2903.6	4415.1	8132.1	15595.3	20071.3	19603.6	19964.0	15658.8
70°	1290.2	1324.7	1587.0	1987.0	2691.7	4649.6	12541.9	20863.4	21516.5	21423.7	16239.0
71°	1122.0	1157.7	1430.6	1808.2	2261.2	3588.5	10566.8	20034.2	21582.7	21566.8	16020.5
72.5°	956.4	978.9	1192.2	1531.3	1906.2	2515.5	7938.7	17967.7	20662.1	21190.6	15240.3
75°	751.1	768.3	863.7	1168.3	1500.8	1544.6	4260.1	13470.5	16970.2	17977.0	12687.6
77.5°	612.0	623.9	673.0	867.7	1157.7	1094.1	2234.7	8767.9	10631.8	11645.1	7473.7
80°	486.2	499.4	528.6	588.1	867.7	780.2	1066.4	4442.9	5135.7	5125.1	2983.1
82.5°	377.5	381.5	416.0	431.9	593.4	553.7	577.5	1881.0	2083.7	2152.5	1077.0
85°	238.4	250.4	368.3	331.2	355.0	324.5	284.8	747.1	920.6	907.4	430.5
87.5°	72.8	76.9	124.6	140.4	157.6	141.7	104.6	219.9	268.9	291.4	107.3
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°	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0
2.5°	2975.2	2960.7	2908.9	2866.5	2826.9	2783.1	2746.0	2735.4	2726.2	2722.1	2720.9
5°	3003.0	2959.3	2857.3	2773.9	2707.6	2646.7	2608.3	2591.0	2573.8	2573.8	2579.1
7.5°	3042.7	2963.3	2805.7	2681.1	2597.7	2540.7	2512.9	2510.2	2514.2	2518.2	2519.5
10°	3086.5	2960.7	2730.1	2575.1	2501.0	2474.5	2475.8	2498.3	2519.5	2535.4	2538.1
12.5°	3128.9	2944.8	2641.4	2475.8	2428.1	2433.4	2470.5	2520.8	2561.9	2584.4	2585.7
15°	3176.5	2919.5	2534.1	2381.7	2365.8	2406.9	2475.8	2552.6	2614.9	2652.0	2656.0
17.5°	3216.2	2877.1	2421.5	2290.4	2310.2	2385.7	2481.1	2580.4	2656.0	2702.3	2710.3
20°	3261.3	2822.8	2304.9	2202.9	2259.9	2361.9	2470.5	2577.7	2656.0	2701.0	2711.6
22.5°	3297.1	2746.0	2193.7	2131.3	2214.9	2332.8	2434.7	2520.8	2584.4	2608.3	2624.2
25°	3311.7	2649.3	2089.0	2073.1	2179.0	2285.1	2354.0	2402.9	2422.8	2420.1	2426.8
27.5°	3303.7	2538.1	1998.9	2026.7	2134.0	2210.8	2245.3	2241.3	2205.5	2172.5	2188.4
30°	3270.6	2405.6	1923.4	1979.0	2075.8	2118.1	2112.8	2061.2	1993.6	1931.4	1935.3
32.5°	3210.9	2262.5	1853.2	1924.7	1993.6	2012.2	1976.4	1908.8	1812.1	1731.4	1719.4
35°	3160.6	2126.0	1790.9	1862.5	1911.5	1902.2	1867.8	1780.3	1692.9	1621.4	1609.4
37.5°	3152.7	2009.5	1731.4	1792.3	1820.1	1806.8	1764.4	1690.2	1658.5	1604.1	1597.6
40°	3195.0	1927.4	1670.4	1718.1	1731.4	1720.8	1674.3	1632.0	1661.1	1647.9	1647.9
42.5°	3310.3	1883.7	1616.1	1643.9	1654.5	1662.5	1629.4	1593.5	1629.4	1568.4	1548.5
45°	3493.1	1885.0	1567.0	1571.1	1602.9	1630.7	1608.2	1555.2	1536.6	1414.7	1390.9
47.5°	3762.0	1930.0	1527.3	1502.2	1559.1	1605.5	1573.7	1496.9	1414.7	1333.9	1319.4
50°	4076.0	2010.8	1491.6	1430.6	1500.8	1573.7	1549.9	1459.8	1375.0	1326.0	1316.8
52.5°	4424.3	2112.8	1447.9	1351.2	1429.3	1559.1	1555.2	1454.5	1337.9	1304.8	1296.8
55°	4854.9	2213.5	1393.5	1258.4	1365.7	1547.2	1540.5	1410.8	1330.0	1306.2	1303.5
57.5°	5355.6	2359.3	1315.4	1164.4	1292.9	1498.2	1483.6	1384.3	1303.5	1286.2	1284.9
60°	6162.3	2585.7	1204.1	1078.2	1218.7	1412.1	1430.6	1339.2	1261.1	1257.1	1255.8
62.5°	7223.3	2903.6	1088.8	989.5	1132.6	1300.9	1353.8	1278.3	1216.0	1235.9	1238.5
65°	8688.5	3171.2	969.7	914.0	1037.2	1193.5	1280.9	1221.3	1165.7	1204.1	1204.1
67.5°	9643.5	3176.5	861.0	835.9	940.5	1103.5	1204.1	1153.8	1100.8	1165.7	1168.3
70°	9444.9	2783.1	770.9	753.7	846.5	1006.8	1119.4	1079.6	1018.7	1077.0	1055.8
71°	9124.3	2564.5	735.2	721.9	809.4	960.3	1079.6	1046.5	985.6	1024.0	1012.1
72.5°	8612.9	2226.7	676.9	679.5	753.7	902.1	1024.0	989.5	928.5	949.7	945.8
75°	7280.4	1944.6	578.9	590.8	647.7	802.7	912.7	886.2	823.9	823.9	820.0
77.5°	4551.6	1359.1	480.9	487.4	549.8	687.5	784.2	761.7	702.1	682.2	676.9
80°	1698.2	702.1	376.2	384.2	422.6	541.8	649.1	627.9	566.9	544.5	523.3
82.5°	642.4	352.4	276.9	270.2	311.3	413.3	508.6	483.5	435.8	381.5	365.6
85°	242.4	174.8	169.5	164.2	182.8	245.1	315.3	310.0	259.6	221.2	217.2
87.5°	63.6	56.9	66.3	49.0	51.6	46.3	47.7	19.8	9.3	4.0	2.7
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)