

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: P652050

Luminaire Tested: **GALN-SA8A-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652050
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-SA8A-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31360.9 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

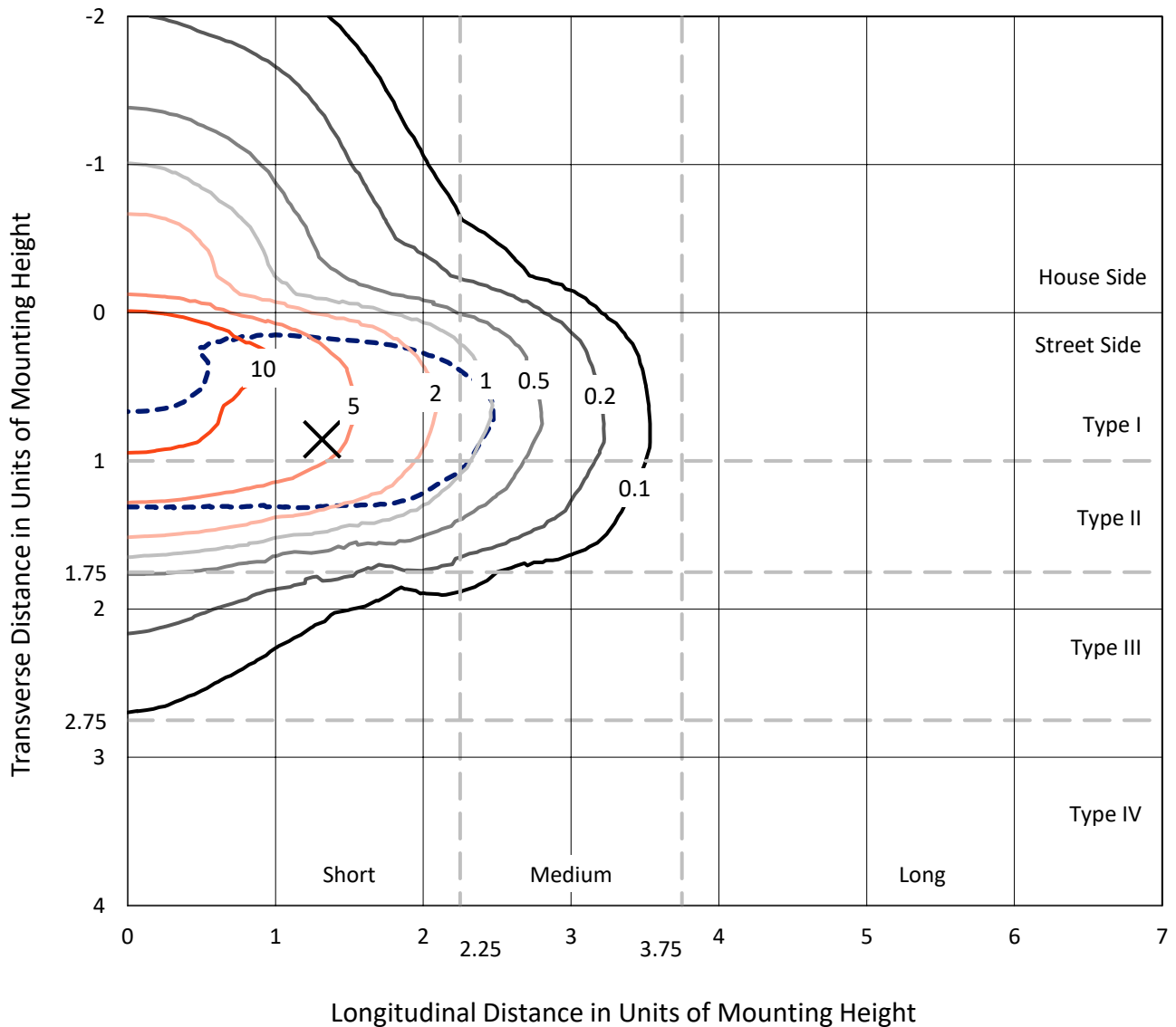
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

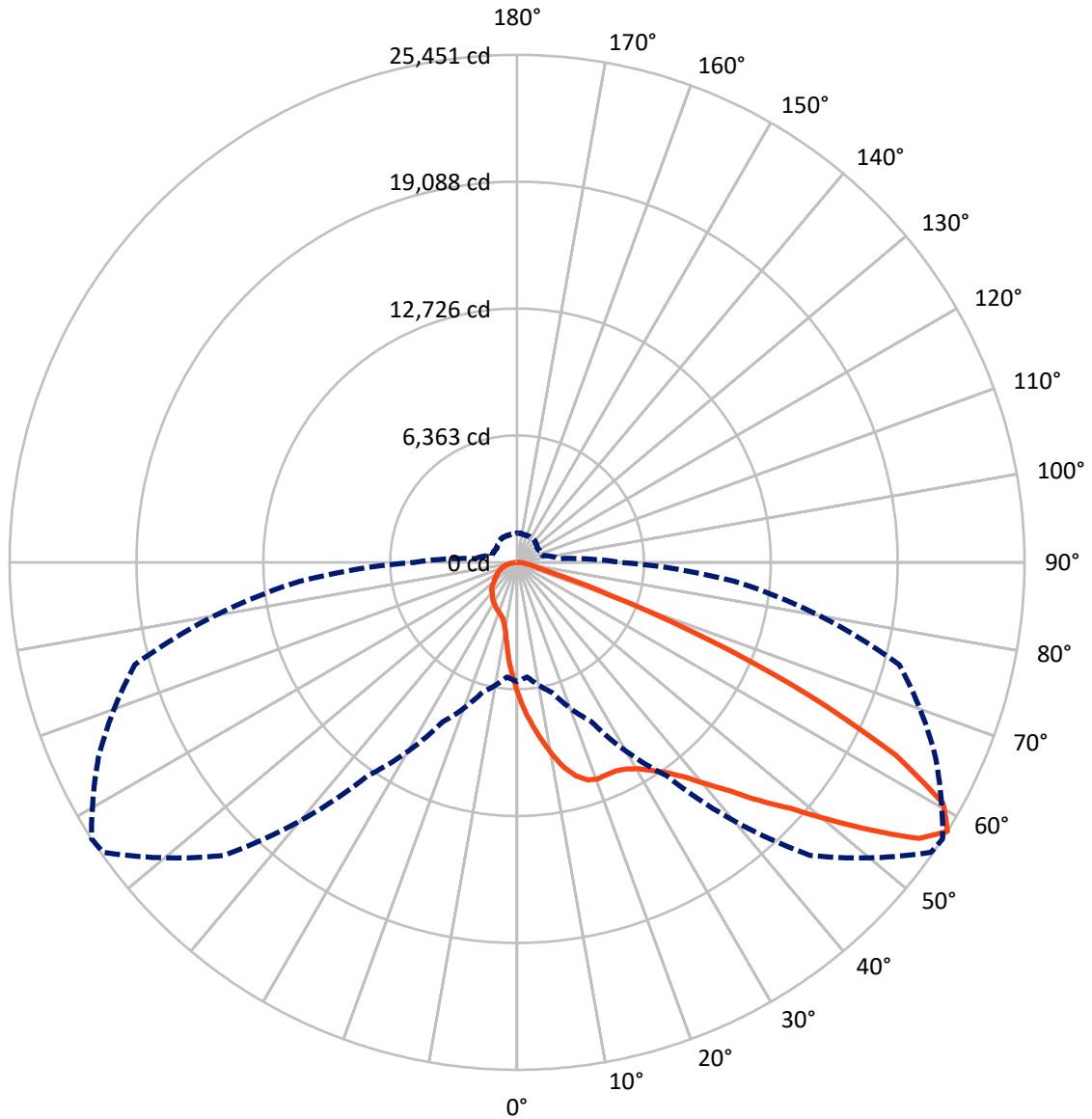
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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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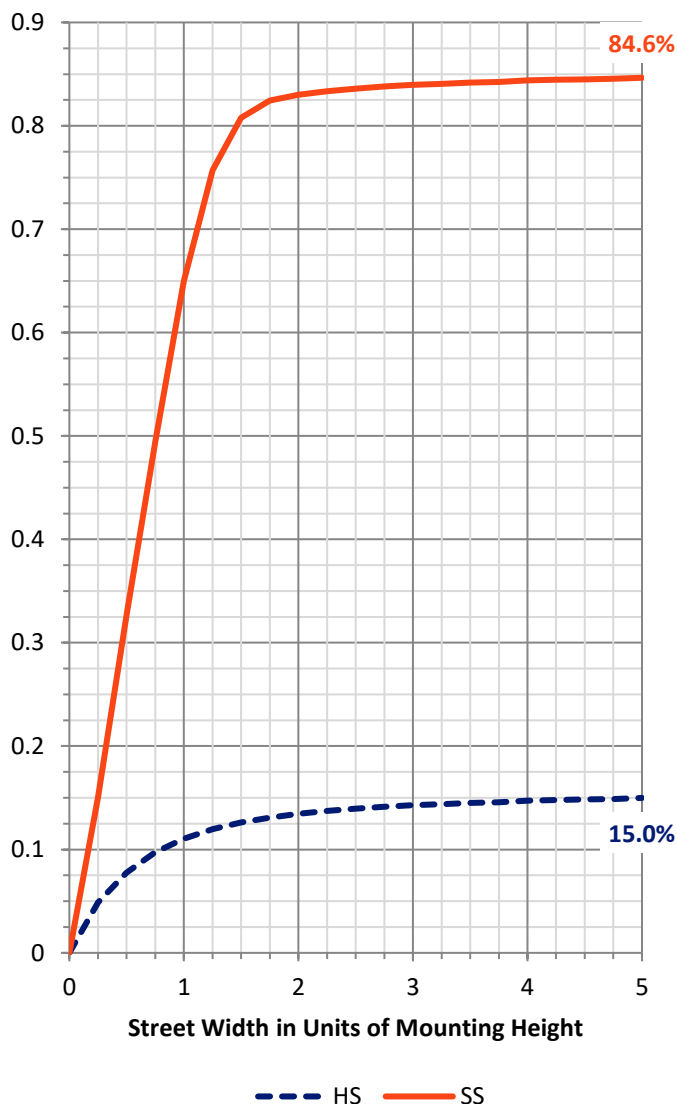
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4769.1	0.0	4769.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	26591.8	0.0	26591.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	31360.9	0.0	31360.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.2	2.0
10°-20°	1866.2	6.0
20°-30°	3098.8	9.9
30°-40°	4667.7	14.9
40°-50°	7008.0	22.3
50°-60°	7855.1	25.0
60°-70°	4597.2	14.7
70°-80°	1359.8	4.3
80°-90°	274.9	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°	31360.9	100.0
0°-180°	31360.9	100.0

Coefficient of Utilization

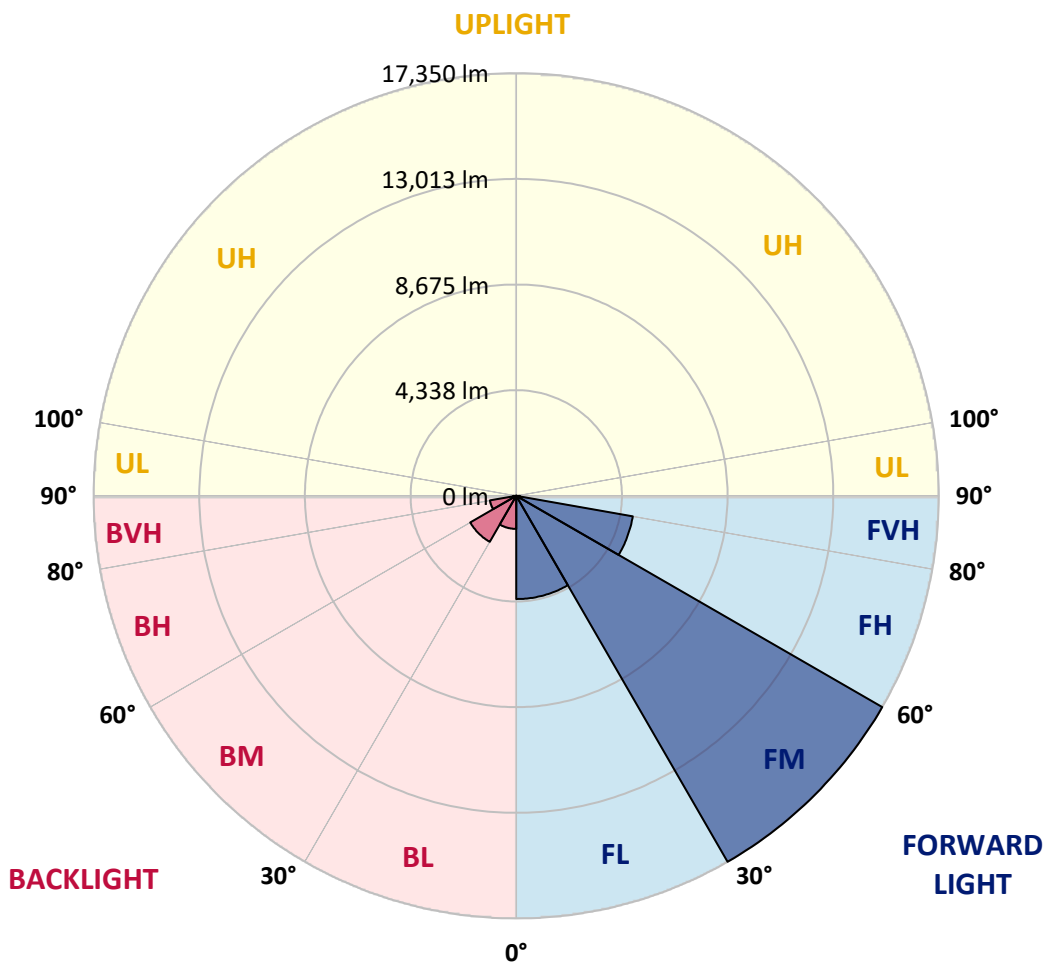


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4239.3	13.5			
FM (30°-60°)	17350.2	55.3			
FH (60°-80°)	4859.7	15.5			G2/5000
FVH (80°-90°)	142.6	0.5			G2/225
BL (0°-30°)	1358.9	4.3	B3/2500		
BM (30°-60°)	2180.6	7.0	B2/2500		
BH (60°-80°)	1097.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	132.2	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6
2.5°	8186.8	8097.5	8027.1	7965.4	7884.6	7666.6	7448.7	7445.2	7271.8	7004.0	6729.3
5°	9520.6	9400.4	9415.9	9223.7	9031.4	8715.5	8253.7	8229.7	7860.6	7359.3	6849.5
7.5°	10389.3	10391.0	10343.0	10233.0	10025.3	9666.5	9142.9	9024.5	8511.3	7750.7	6986.9
10°	10344.6	10391.0	10471.6	10566.1	10629.6	10452.8	9975.5	9831.4	9163.5	8224.6	7139.6
12.5°	9750.6	9822.8	9937.8	10174.7	10557.5	10849.3	10686.3	10569.5	9918.9	8696.6	7307.9
15°	9379.8	9422.8	9486.3	9645.9	10057.9	10756.6	11178.9	11117.1	10631.3	9230.5	7496.7
17.5°	9266.6	9309.4	9330.1	9427.9	9721.5	10437.3	11372.9	11482.8	11263.0	9721.5	7687.2
20°	9379.8	9400.4	9400.4	9458.8	9688.8	10250.2	11364.3	11585.8	11781.5	10310.3	7865.8
22.5°	9676.9	9685.5	9673.4	9694.0	9865.7	10301.7	11283.6	11558.3	12200.4	10809.9	8004.8
25°	10159.2	10173.0	10094.0	10045.9	10171.2	10528.3	11328.3	11580.7	12528.2	11287.1	8097.5
27.5°	10706.9	10724.0	10627.9	10516.3	10574.6	10808.1	11503.4	11730.0	12773.7	11757.4	8155.8
30°	11378.1	11385.0	11223.6	11089.7	11051.9	11225.2	11802.1	12013.3	13079.3	12311.9	8243.4
32.5°	12064.7	12116.2	11908.5	11719.7	11656.2	11709.4	12243.3	12447.6	13443.2	12907.6	8384.2
35°	12998.6	13007.2	12758.2	12528.2	12318.8	12387.4	12808.0	12955.7	13946.2	13596.0	8583.3
37.5°	14164.2	14243.2	13899.9	13470.7	13213.2	13113.6	13491.2	13652.6	14651.7	14440.6	8883.7
40°	15458.6	15487.8	15194.2	14926.4	14456.0	14167.7	14428.6	14603.7	15522.1	15448.2	9232.2
42.5°	16272.3	16335.8	16358.1	16330.6	15977.0	15492.9	15592.5	15674.9	16552.1	16394.2	9589.3
45°	16546.9	16641.4	16960.7	17637.0	17674.8	17197.5	16965.8	17044.8	17674.8	17348.7	9930.9
47.5°	16092.0	16253.4	16842.2	18229.3	19267.9	19303.9	18605.2	18431.9	18698.0	18140.0	10178.1
50°	14916.1	14950.5	15851.7	17860.2	20014.6	21317.6	20594.8	20272.1	19669.6	18725.4	10348.1
52.5°	13096.5	13135.9	13891.3	16145.3	19554.5	22725.2	22922.6	22345.9	20656.6	19180.4	10459.7
55°	9721.5	9949.8	10780.7	12959.1	17374.4	22593.0	24773.2	24445.3	21849.7	19540.8	10634.8
57.5°	5977.4	5768.0	6753.4	8816.8	13067.3	20776.8	25344.9	25451.3	23163.0	19843.0	10928.3
60°	2750.1	2791.3	3198.2	4547.5	7965.4	16253.4	23872.0	24544.9	23889.1	19832.6	11002.1
62.5°	1895.2	1857.4	1754.4	1996.4	3632.4	10279.4	20164.0	21303.8	22433.4	19216.3	10708.5
65°	1694.4	1656.6	1457.5	1390.5	1668.6	4480.5	14658.6	16097.2	18888.4	17661.1	9977.3
67.5°	1582.8	1531.3	1325.2	1194.8	1191.4	1783.6	8643.4	10375.5	14009.7	14931.5	8645.1
70°	1466.0	1424.8	1220.5	1076.3	1014.6	1121.0	3799.0	4973.2	9096.6	10760.1	6734.5
72.5°	1349.3	1301.2	1117.5	963.0	882.4	839.5	1455.8	1893.5	5139.7	6451.2	4128.6
75°	1179.3	1155.3	999.1	872.0	784.5	678.1	923.6	1054.0	2458.2	2962.9	2072.1
77.5°	1031.7	1006.0	887.5	762.2	698.7	551.0	655.7	715.9	1036.9	1201.7	935.6
80°	755.3	781.1	748.5	673.0	623.2	432.6	441.2	491.0	616.3	681.5	571.6
82.5°	478.9	527.1	576.8	518.4	472.1	341.6	305.5	324.5	420.6	446.3	254.1
85°	200.8	204.3	334.7	315.9	269.5	202.6	183.7	194.0	224.9	235.1	118.4
87.5°	77.3	75.5	118.4	109.8	84.1	58.4	58.4	65.3	89.2	82.4	37.8
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°	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6	6588.6
2.5°	6610.8	6489.0	6246.9	5946.5	5726.8	5479.6	5261.5	5105.4	5047.0	5019.5	4968.0
5°	6605.7	6365.4	5864.1	5338.8	4916.6	4484.0	4118.3	3881.4	3860.8	3702.8	3687.4
7.5°	6607.5	6240.1	5441.9	4669.3	4025.6	3582.7	3280.6	3201.6	3107.2	3083.1	3095.1
10°	6612.6	6080.4	4988.6	4006.7	3383.5	3093.5	2980.2	2949.2	2952.7	2962.9	2964.7
12.5°	6619.4	5925.9	4518.3	3503.7	3023.1	2902.9	2890.9	2918.4	2947.5	2969.8	2975.0
15°	6628.1	5749.1	4059.9	3098.6	2842.8	2832.5	2872.0	2918.4	2959.6	2992.1	2997.3
17.5°	6617.7	5543.1	3675.4	2849.6	2743.3	2793.0	2858.2	2916.6	2954.3	2985.3	2988.7
20°	6593.7	5313.1	3304.5	2674.5	2681.4	2762.1	2832.5	2887.4	2928.6	2944.1	2956.1
22.5°	6501.0	5038.4	2981.8	2539.0	2607.6	2719.2	2803.3	2835.9	2789.6	2757.0	2765.5
25°	6343.1	4681.3	2681.4	2429.1	2540.7	2659.1	2744.9	2666.0	2628.2	2614.5	2621.3
27.5°	6145.7	4289.9	2454.8	2314.1	2454.8	2592.1	2568.2	2554.4	2537.2	2514.9	2520.1
30°	5932.8	3907.1	2262.5	2224.8	2362.1	2441.1	2451.4	2473.7	2454.8	2420.5	2434.2
32.5°	5735.4	3546.7	2116.6	2149.3	2296.9	2284.9	2362.1	2387.9	2300.3	2185.3	2190.5
35°	5567.2	3211.9	2006.8	2075.4	2185.3	2190.5	2267.8	2178.4	2084.0	2029.1	2032.5
37.5°	5440.1	2951.0	1934.7	2011.9	2042.9	2108.1	2066.8	2020.5	2008.5	1970.7	1972.5
40°	5364.6	2722.7	1888.3	1962.1	1957.0	2001.7	1869.5	1915.8	1933.0	1920.9	1922.7
42.5°	5289.0	2561.3	1840.3	1893.5	1891.7	1804.2	1775.0	1814.5	1859.1	1864.3	1860.9
45°	5229.0	2436.0	1790.5	1788.8	1823.1	1685.8	1677.2	1701.2	1764.8	1795.6	1793.9
47.5°	5162.0	2331.3	1715.0	1666.9	1677.2	1611.9	1598.2	1608.5	1685.8	1735.6	1749.3
50°	5077.9	2226.5	1620.5	1555.3	1512.4	1543.3	1546.7	1548.4	1625.7	1682.3	1694.4
52.5°	5010.9	2147.6	1512.4	1464.3	1412.8	1481.5	1507.2	1510.7	1557.0	1603.4	1611.9
55°	5050.5	2102.9	1406.0	1371.6	1325.2	1417.9	1467.7	1474.6	1485.0	1519.3	1524.4
57.5°	5168.9	2113.2	1320.1	1275.5	1241.1	1342.4	1426.6	1431.7	1424.8	1466.0	1472.9
60°	5204.9	2108.1	1256.6	1169.1	1148.5	1261.8	1366.5	1376.8	1375.0	1435.2	1447.1
62.5°	5053.9	2042.9	1193.0	1079.8	1066.1	1179.3	1282.4	1323.6	1332.1	1417.9	1433.4
65°	4698.5	1908.9	1108.9	985.4	985.4	1091.8	1201.7	1258.3	1282.4	1397.4	1414.6
67.5°	4229.9	1751.0	1023.2	904.7	901.2	1007.7	1115.8	1174.2	1212.0	1368.2	1378.5
70°	3510.6	1538.1	916.7	817.1	817.1	913.2	1011.1	1081.5	1136.4	1313.2	1313.2
72.5°	2405.0	1278.9	787.9	717.5	719.3	808.5	908.1	987.1	1052.3	1203.4	1206.8
75°	1520.9	999.1	647.1	611.2	618.0	702.2	805.1	887.5	1017.9	1189.7	1194.8
77.5°	808.5	702.2	515.0	506.5	515.0	592.2	707.3	820.6	1021.4	1031.7	1014.6
80°	523.6	497.9	406.9	389.7	393.1	477.3	630.0	779.4	820.6	830.9	793.1
82.5°	284.9	315.9	288.4	271.2	271.2	372.5	537.3	619.7	588.8	489.2	466.9
85°	121.9	147.6	149.4	130.4	125.3	230.0	360.5	338.2	314.1	300.4	297.0
87.5°	34.3	48.1	48.1	36.1	27.5	63.5	72.1	20.6	0.0	1.7	3.4
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)