

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: P651995

Luminaire Tested: **GALN-SA7A-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651995
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-SA7A-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 27049.9 lumens
Efficiency: N/A
Efficacy: 125.8 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

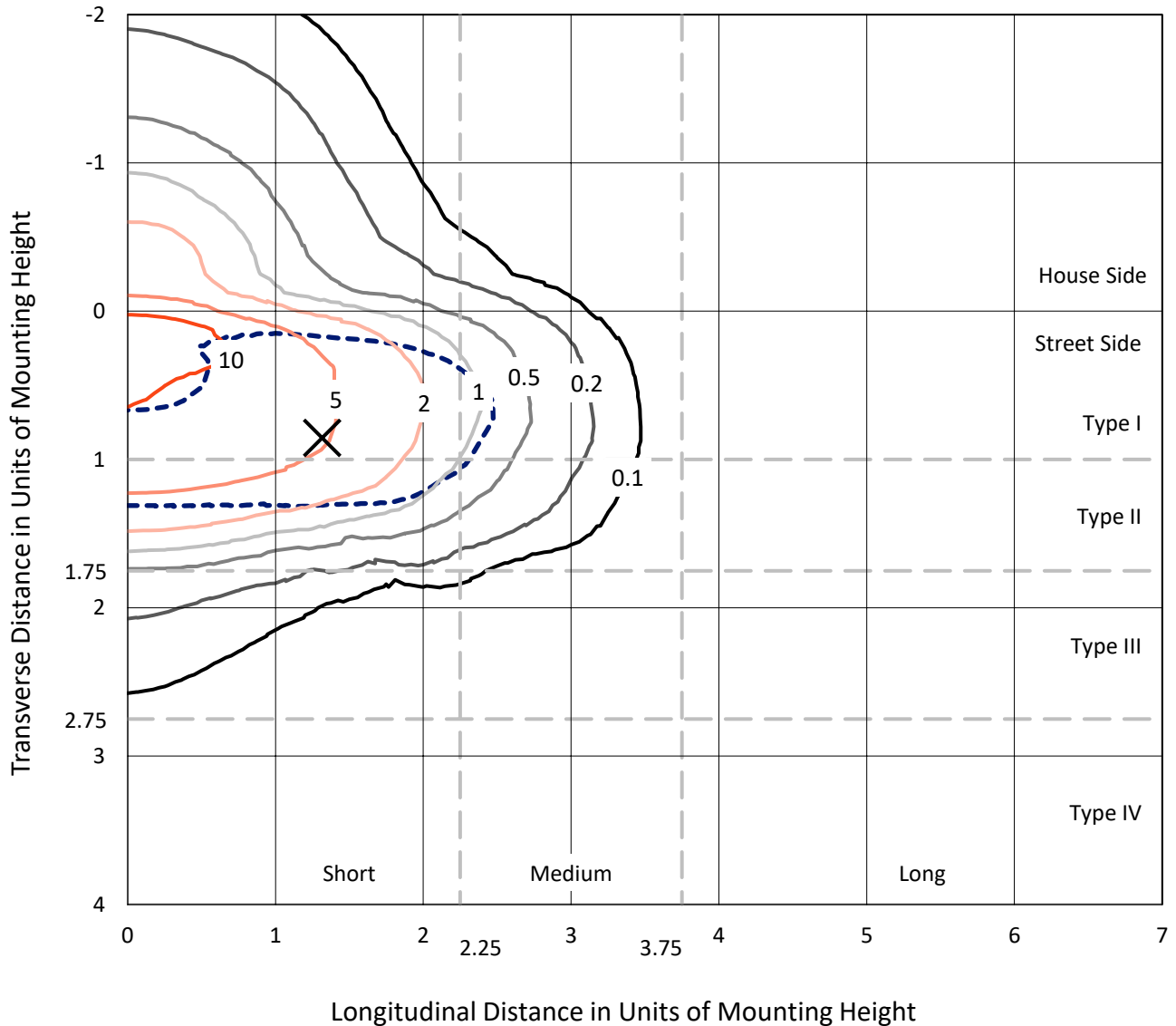
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

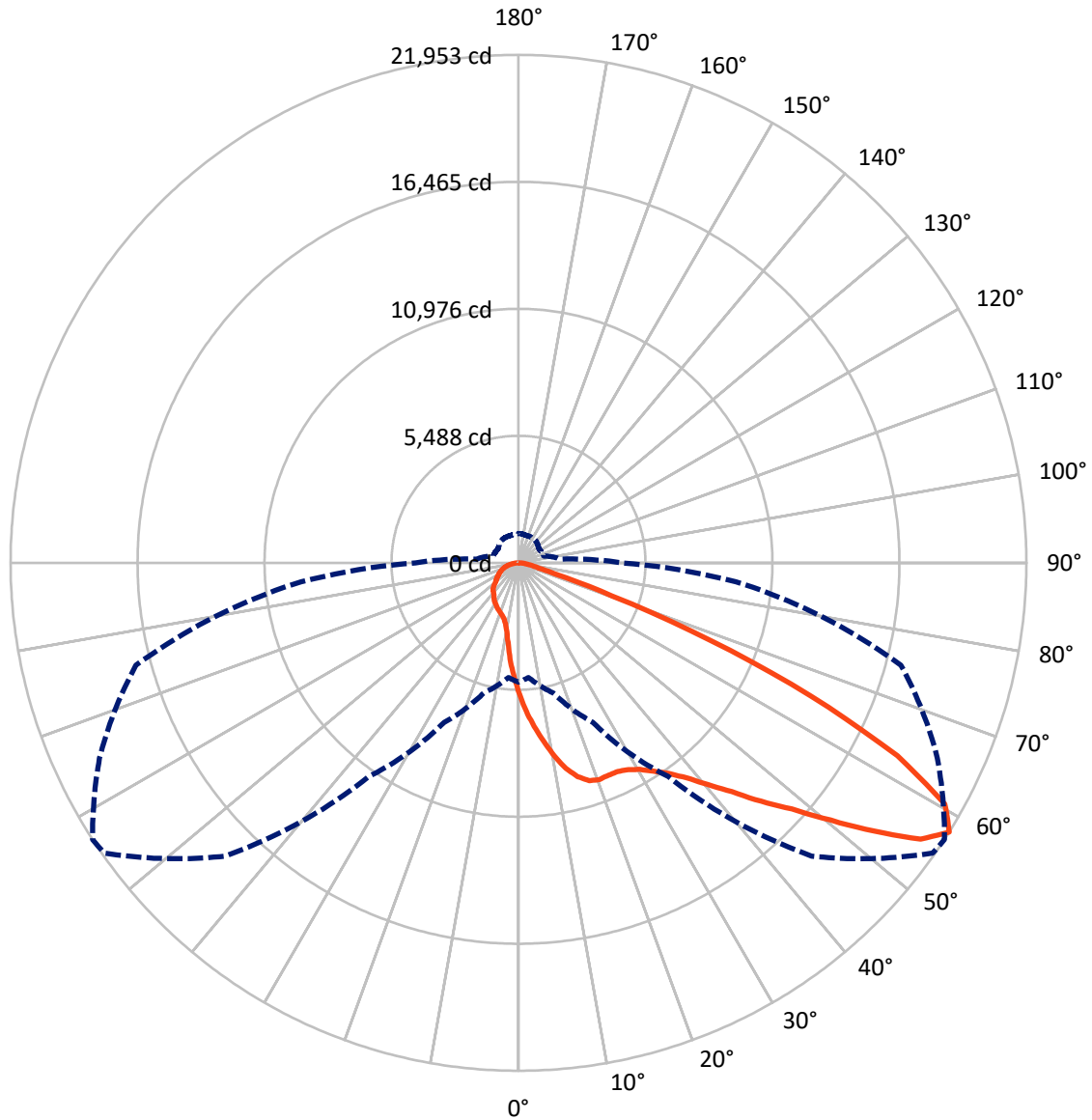
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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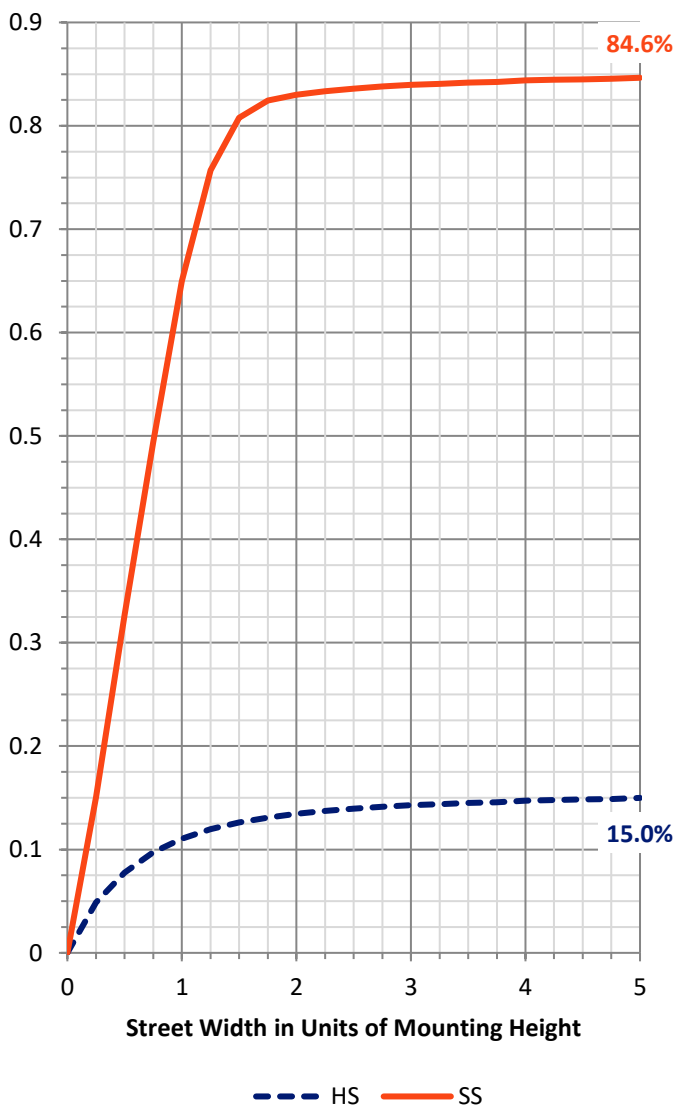
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4113.5	0.0	4113.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	22936.4	0.0	22936.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	27049.9	0.0	27049.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.2	2.0
10°-20°	1609.6	6.0
20°-30°	2672.8	9.9
30°-40°	4026.0	14.9
40°-50°	6044.7	22.3
50°-60°	6775.3	25.0
60°-70°	3965.3	14.7
70°-80°	1172.9	4.3
80°-90°	237.1	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°	27049.9	100.0
0°-180°	27049.9	100.0

Coefficient of Utilization

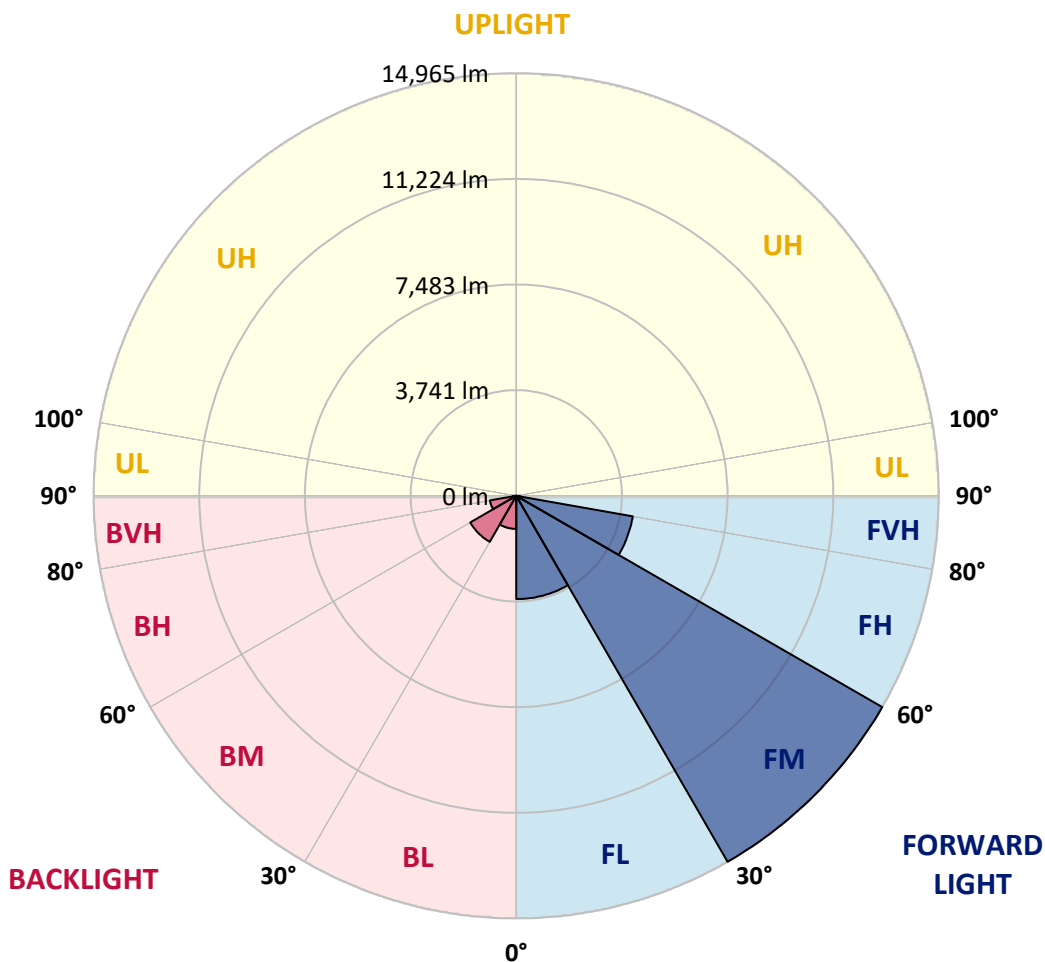


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3656.5	13.5			
FM (30°-60°)	14965.2	55.3			
FH (60°-80°)	4191.7	15.5			G2/5000
FVH (80°-90°)	123.0	0.5			G2/225
BL (0°-30°)	1172.1	4.3	B3/2500		
BM (30°-60°)	1880.9	7.0	B2/2500		
BH (60°-80°)	946.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	114.1	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°	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9
2.5°	7061.4	6984.4	6923.7	6870.4	6800.8	6612.8	6424.7	6421.7	6272.2	6041.2	5804.3
5°	8211.9	8108.2	8121.5	7955.8	7789.9	7517.4	7119.1	7098.4	6780.1	6347.7	5907.9
7.5°	8961.1	8962.6	8921.2	8826.4	8647.2	8337.8	7886.1	7784.0	7341.3	6685.3	6026.4
10°	8922.6	8962.6	9032.2	9113.7	9168.4	9015.9	8604.3	8479.9	7903.9	7094.0	6158.1
12.5°	8410.3	8472.5	8571.7	8776.0	9106.3	9358.0	9217.3	9116.6	8555.4	7501.1	6303.3
15°	8090.5	8127.5	8182.3	8320.0	8675.3	9278.0	9642.2	9588.9	9169.9	7961.7	6466.2
17.5°	7992.8	8029.8	8047.5	8132.0	8385.1	9002.6	9809.6	9904.3	9714.8	8385.1	6630.5
20°	8090.5	8108.2	8108.2	8158.6	8357.0	8841.2	9802.2	9993.2	10162.0	8893.0	6784.5
22.5°	8346.7	8354.1	8343.6	8361.5	8509.5	8885.6	9732.6	9969.5	10523.3	9323.9	6904.4
25°	8762.7	8774.6	8706.5	8665.0	8773.1	9081.0	9771.1	9988.7	10806.1	9735.5	6984.4
27.5°	9235.0	9249.8	9166.9	9070.7	9121.1	9322.4	9922.1	10117.6	11017.8	10141.2	7034.7
30°	9814.0	9819.9	9680.8	9565.3	9532.7	9682.2	10179.7	10361.9	11281.3	10619.5	7110.2
32.5°	10406.3	10450.7	10271.6	10108.7	10053.9	10099.7	10560.3	10736.5	11595.3	11133.3	7231.7
35°	11211.8	11219.2	11004.5	10806.1	10625.4	10684.7	11047.4	11174.8	12029.1	11727.1	7403.4
37.5°	12217.1	12285.2	11989.1	11618.9	11396.8	11310.9	11636.7	11775.9	12637.7	12455.5	7662.5
40°	13333.6	13358.8	13105.6	12874.6	12468.8	12220.2	12445.2	12596.2	13388.4	13324.7	7963.2
42.5°	14035.4	14090.2	14109.5	14085.7	13780.8	13363.2	13449.1	13520.2	14276.8	14140.6	8271.2
45°	14272.4	14353.8	14629.2	15212.6	15245.1	14833.6	14633.7	14701.8	15245.1	14963.8	8565.8
47.5°	13879.9	14019.1	14527.0	15723.4	16619.3	16650.4	16047.7	15898.2	16127.7	15646.5	8779.0
50°	12865.7	12895.3	13672.6	15405.1	17263.4	18387.2	17763.8	17485.4	16965.7	16151.3	8925.6
52.5°	11296.1	11330.2	11981.7	13925.9	16866.5	19601.4	19771.7	19274.1	17817.1	16543.7	9021.8
55°	8385.1	8582.1	9298.7	11177.7	14986.0	19487.3	21367.8	21085.0	18846.2	16854.6	9172.9
57.5°	5155.8	4975.1	5825.0	7604.8	11271.0	17920.8	21860.9	21952.7	19978.9	17115.3	9426.1
60°	2372.0	2407.6	2758.5	3922.3	6870.4	14019.1	20590.5	21170.9	20605.3	17106.4	9489.8
62.5°	1634.7	1602.1	1513.3	1722.0	3133.1	8866.3	17392.1	18375.3	19349.6	16574.8	9236.5
65°	1461.4	1428.9	1257.1	1199.4	1439.2	3864.6	12643.6	13884.4	16292.0	15233.3	8605.8
67.5°	1365.2	1320.8	1143.1	1030.6	1027.6	1538.4	7455.3	8949.2	12083.9	12879.0	7456.7
70°	1264.5	1229.0	1052.8	928.4	875.1	966.9	3276.8	4289.5	7846.2	9280.9	5808.7
72.5°	1163.9	1122.4	964.0	830.7	761.1	724.0	1255.6	1633.2	4433.2	5564.4	3561.0
75°	1017.3	996.5	861.8	752.2	676.7	584.8	796.6	909.1	2120.3	2555.6	1787.2
77.5°	889.9	867.7	765.5	657.4	602.7	475.3	565.7	617.5	894.3	1036.4	806.9
80°	651.5	673.7	645.6	580.5	537.5	373.2	380.6	423.4	531.6	587.9	493.1
82.5°	413.1	454.6	497.5	447.2	407.2	294.7	263.6	279.9	362.8	385.0	219.2
85°	173.2	176.2	288.7	272.5	232.5	174.8	158.4	167.4	193.9	202.8	102.2
87.5°	66.6	65.2	102.2	94.8	72.6	50.4	50.4	56.3	77.0	71.1	32.5
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°	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9
2.5°	5702.1	5597.0	5388.2	5129.1	4939.6	4726.3	4538.3	4403.6	4353.2	4329.6	4285.1
5°	5697.7	5490.4	5058.0	4605.0	4240.7	3867.6	3552.1	3347.9	3330.1	3193.9	3180.5
7.5°	5699.2	5382.3	4693.8	4027.5	3472.2	3090.2	2829.6	2761.5	2680.0	2659.3	2669.7
10°	5703.6	5244.6	4302.9	3455.9	2918.4	2668.2	2570.4	2543.9	2546.8	2555.6	2557.1
12.5°	5709.5	5111.3	3897.2	3022.0	2607.5	2503.8	2493.5	2517.2	2542.3	2561.6	2566.1
15°	5716.9	4958.8	3501.8	2672.6	2452.0	2443.1	2477.2	2517.2	2552.7	2580.9	2585.3
17.5°	5708.0	4781.2	3170.1	2457.9	2366.2	2409.0	2465.3	2515.7	2548.2	2574.9	2577.9
20°	5687.3	4582.7	2850.3	2306.9	2312.8	2382.4	2443.1	2490.5	2526.0	2539.4	2549.7
22.5°	5607.4	4345.8	2571.9	2190.0	2249.2	2345.4	2418.0	2446.1	2406.1	2378.0	2385.4
25°	5471.1	4037.8	2312.8	2095.2	2191.4	2293.6	2367.6	2299.5	2266.9	2255.1	2261.0
27.5°	5300.8	3700.2	2117.4	1995.9	2117.4	2235.8	2215.1	2203.3	2188.5	2169.2	2173.6
30°	5117.2	3370.1	1951.5	1919.0	2037.4	2105.5	2114.4	2133.7	2117.4	2087.8	2099.6
32.5°	4947.0	3059.1	1825.7	1853.8	1981.1	1970.8	2037.4	2059.6	1984.1	1884.9	1889.4
35°	4801.9	2770.3	1730.9	1790.2	1884.9	1889.4	1956.0	1879.0	1797.6	1750.2	1753.1
37.5°	4692.3	2545.3	1668.7	1735.4	1762.0	1818.3	1782.8	1742.8	1732.4	1699.8	1701.3
40°	4627.2	2348.4	1628.8	1692.4	1688.0	1726.5	1612.4	1652.5	1667.3	1656.9	1658.4
42.5°	4562.0	2209.2	1587.3	1633.2	1631.7	1556.2	1531.0	1565.1	1603.6	1608.0	1605.0
45°	4510.2	2101.1	1544.3	1542.9	1572.5	1454.0	1446.6	1467.4	1522.1	1548.8	1547.4
47.5°	4452.4	2010.7	1479.2	1437.8	1446.6	1390.3	1378.5	1387.4	1454.0	1497.0	1508.8
50°	4379.8	1920.4	1397.7	1341.5	1304.5	1331.1	1334.1	1335.6	1402.2	1451.1	1461.4
52.5°	4322.2	1852.3	1304.5	1263.0	1218.6	1277.8	1300.0	1303.0	1343.0	1382.9	1390.3
55°	4356.2	1813.9	1212.7	1183.0	1143.1	1223.1	1266.0	1271.9	1280.8	1310.4	1314.8
57.5°	4458.3	1822.7	1138.6	1100.1	1070.5	1157.9	1230.5	1234.9	1229.0	1264.5	1270.4
60°	4489.4	1818.3	1083.9	1008.4	990.6	1088.3	1178.7	1187.5	1186.1	1237.9	1248.2
62.5°	4359.2	1762.0	1029.0	931.3	919.5	1017.3	1106.1	1141.6	1149.0	1223.1	1236.4
65°	4052.6	1646.5	956.6	849.9	849.9	941.8	1036.4	1085.3	1106.1	1205.3	1220.1
67.5°	3648.4	1510.3	882.5	780.4	777.3	869.2	962.4	1012.8	1045.4	1180.1	1189.0
70°	3028.0	1326.7	790.7	704.8	704.8	787.8	872.1	932.8	980.2	1132.7	1132.7
72.5°	2074.4	1103.1	679.6	618.9	620.4	697.4	783.3	851.4	907.7	1038.0	1040.9
75°	1311.9	861.8	558.3	527.1	533.0	605.6	694.4	765.5	878.1	1026.1	1030.6
77.5°	697.4	605.6	444.2	436.8	444.2	510.8	610.1	707.8	881.0	889.9	875.1
80°	451.6	429.4	350.9	336.1	339.1	411.7	543.5	672.2	707.8	716.6	684.1
82.5°	245.8	272.5	248.8	234.0	234.0	321.3	463.5	534.5	507.9	422.0	402.8
85°	105.1	127.3	128.8	112.5	108.1	198.4	310.9	291.7	271.0	259.1	256.2
87.5°	29.6	41.5	41.5	31.1	23.7	54.7	62.1	17.7	0.0	1.5	2.9
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)