

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: P652105

Luminaire Tested: **GALN-SA9A-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652105
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-SA9A-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 35207.6 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

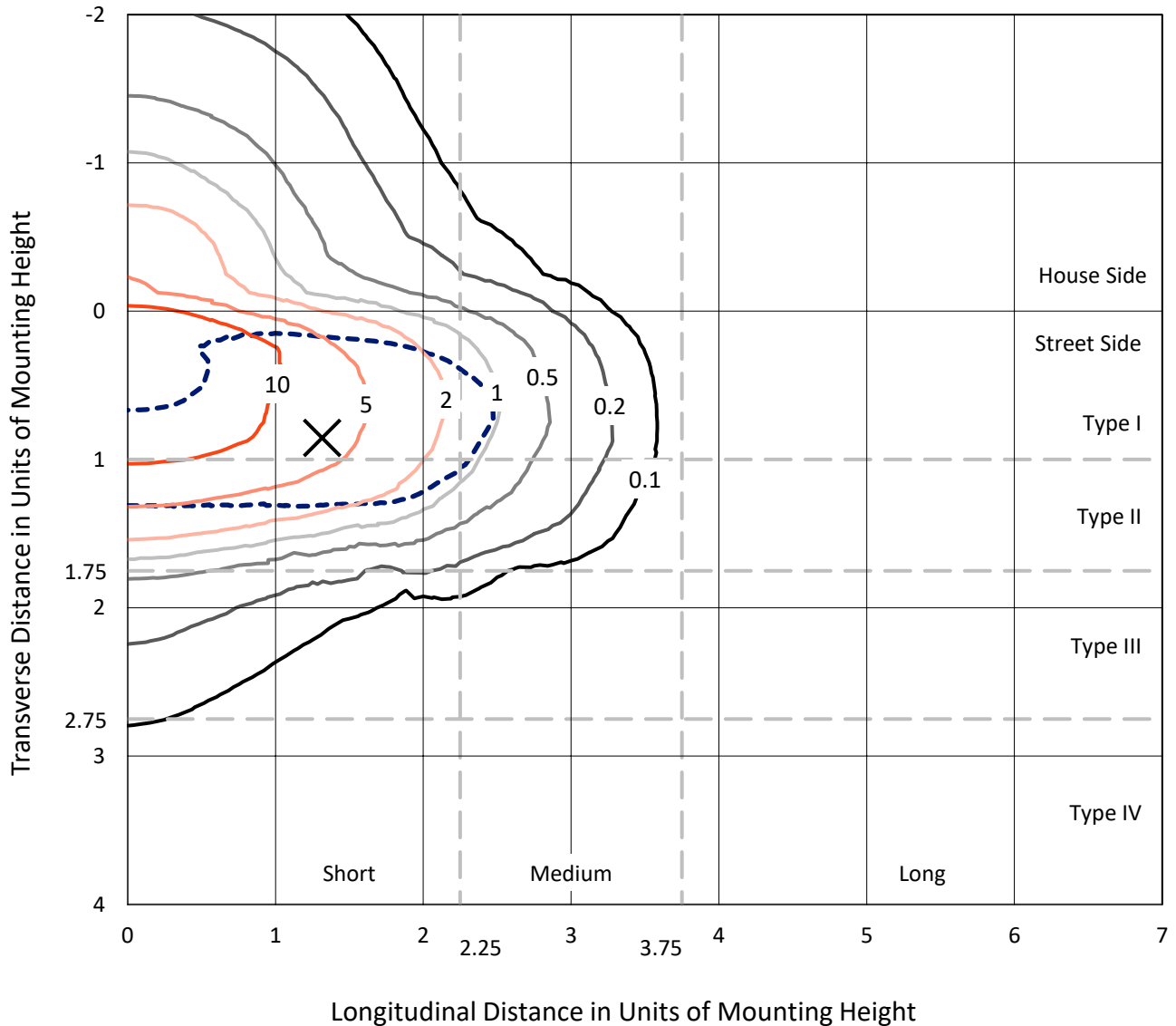
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

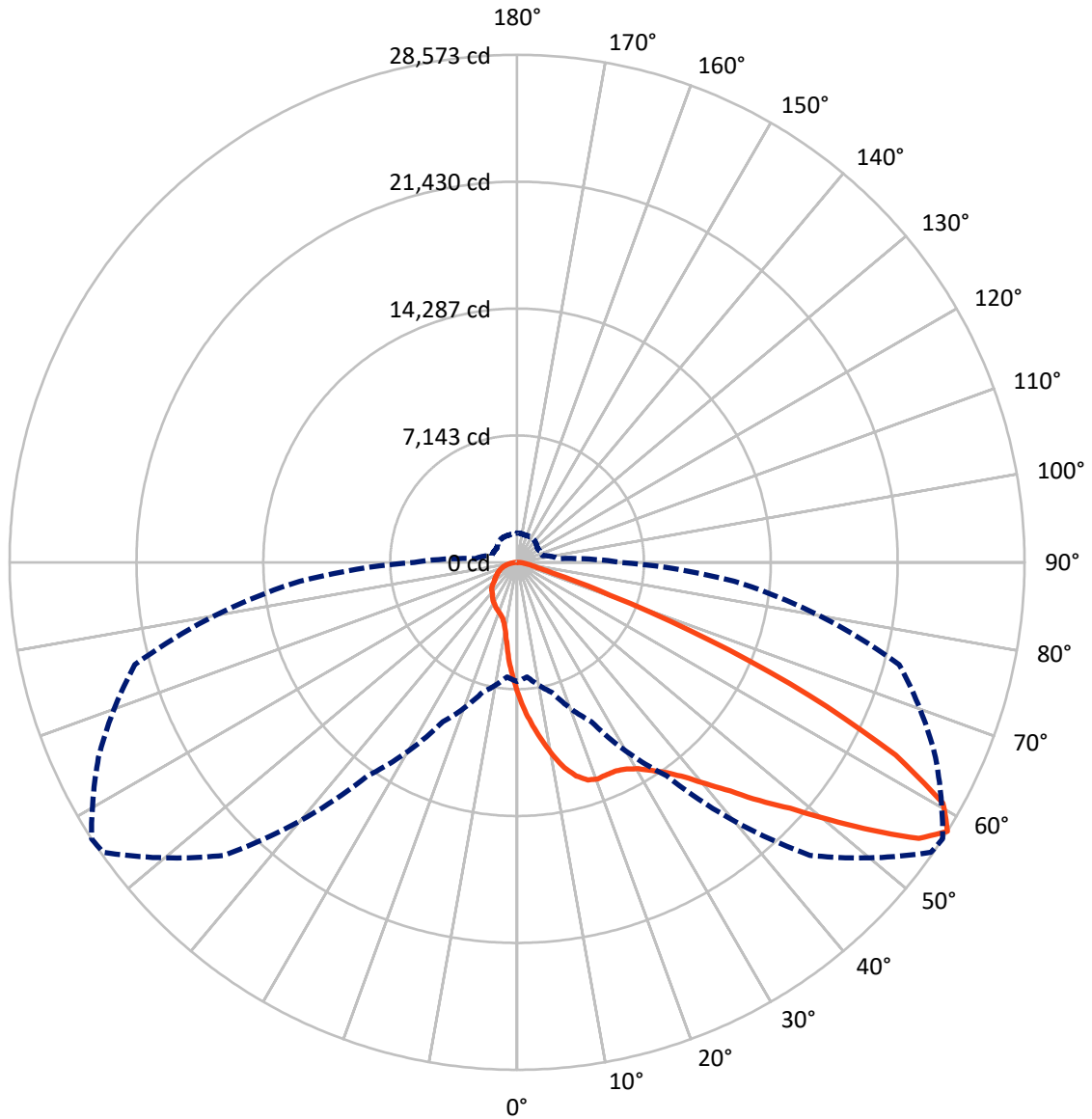
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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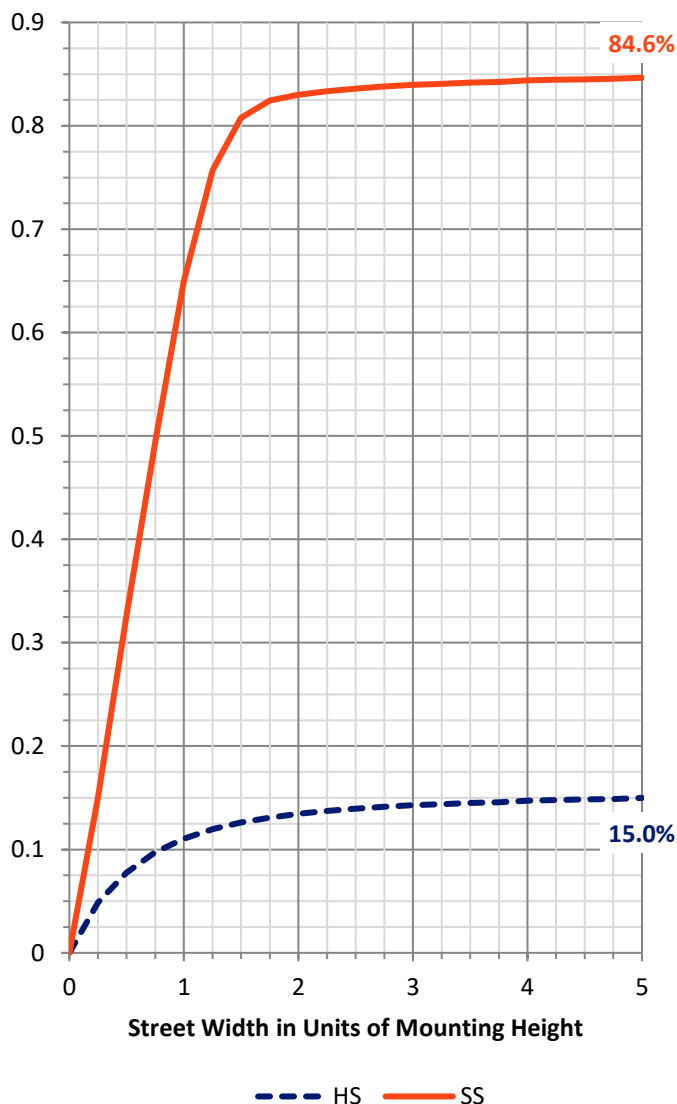
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5354.1	0.0	5354.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	29853.5	0.0	29853.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	35207.6	0.0	35207.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.9	2.0
10°-20°	2095.1	6.0
20°-30°	3478.9	9.9
30°-40°	5240.2	14.9
40°-50°	7867.7	22.3
50°-60°	8818.7	25.0
60°-70°	5161.1	14.7
70°-80°	1526.6	4.3
80°-90°	308.6	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°	35207.6	100.0
0°-180°	35207.6	100.0

Coefficient of Utilization

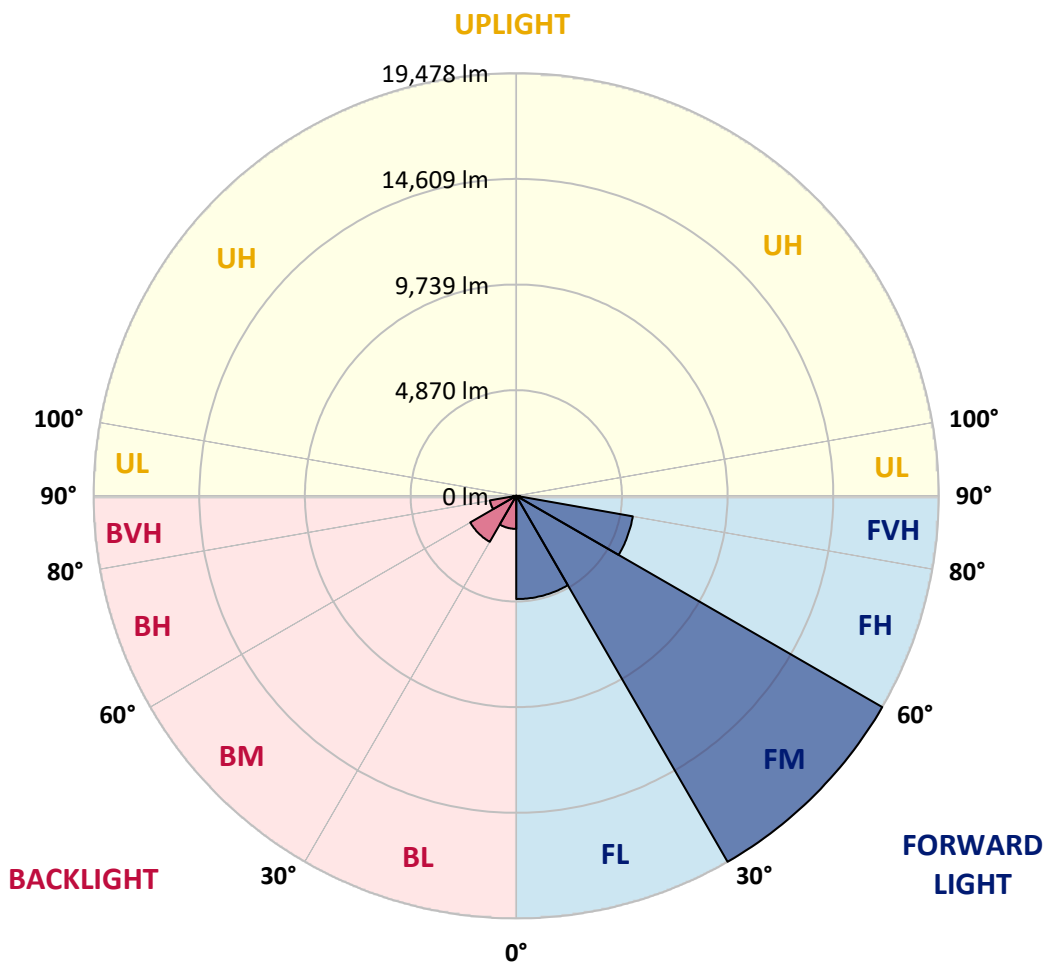


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4759.3	13.5			
FM (30°-60°)	19478.4	55.3			
FH (60°-80°)	5455.8	15.5			G3/7500
FVH (80°-90°)	160.1	0.5			G2/225
BL (0°-30°)	1525.6	4.3	B3/2500		
BM (30°-60°)	2448.1	7.0	B2/2500		
BH (60°-80°)	1232.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	148.5	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°	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7
2.5°	9191.0	9090.8	9011.7	8942.4	8851.8	8607.0	8362.2	8358.4	8163.8	7863.1	7554.8
5°	10688.4	10553.5	10570.9	10355.0	10139.2	9784.5	9266.1	9239.1	8824.8	8262.1	7689.7
7.5°	11663.6	11665.5	11611.6	11488.2	11255.0	10852.3	10264.4	10131.4	9555.2	8701.5	7843.8
10°	11613.5	11665.5	11756.1	11862.1	11933.5	11734.9	11199.2	11037.3	10287.5	9233.3	8015.3
12.5°	10946.7	11027.6	11156.8	11422.7	11852.5	12180.1	11997.0	11866.0	11135.5	9763.3	8204.2
15°	10530.4	10578.6	10649.9	10829.1	11291.7	12076.0	12550.2	12480.8	11935.4	10362.7	8416.2
17.5°	10403.2	10451.4	10474.5	10584.3	10913.9	11717.6	12767.9	12891.3	12644.6	10913.9	8630.2
20°	10530.4	10553.5	10553.5	10619.1	10877.3	11507.5	12758.3	13006.9	13226.6	11574.9	8830.6
22.5°	10863.8	10873.5	10859.9	10883.0	11075.8	11565.3	12667.7	12976.0	13696.9	12135.8	8986.7
25°	11405.4	11420.8	11332.1	11278.1	11418.8	11819.8	12717.8	13001.1	14065.0	12671.5	9090.8
27.5°	12020.2	12039.4	11931.5	11806.2	11871.7	12133.9	12914.4	13168.8	14340.6	13199.6	9156.3
30°	12773.7	12781.4	12600.3	12449.9	12407.5	12602.1	13249.7	13486.8	14683.6	13822.1	9254.5
32.5°	13544.6	13602.4	13369.2	13157.2	13085.9	13145.7	13745.1	13974.4	15092.2	14490.9	9412.6
35°	14593.0	14602.6	14323.2	14065.0	13829.8	13906.9	14379.1	14544.8	15656.8	15263.6	9636.2
37.5°	15901.6	15990.3	15604.8	15123.0	14833.9	14722.1	15146.2	15327.3	16449.0	16211.9	9973.4
40°	17354.7	17387.5	17057.9	16757.3	16229.2	15905.4	16198.4	16395.0	17426.0	17343.2	10364.7
42.5°	18268.2	18339.5	18364.6	18333.8	17936.8	17393.3	17505.1	17597.6	18582.4	18405.0	10765.6
45°	18576.6	18682.6	19041.1	19800.4	19842.8	19307.0	19046.8	19135.5	19842.8	19476.6	11149.1
47.5°	18065.9	18247.0	18908.1	20465.3	21631.3	21671.7	20887.3	20692.7	20991.4	20365.1	11426.6
50°	16745.7	16784.3	17796.1	20051.0	22469.6	23932.3	23121.0	22758.7	22082.2	21022.2	11617.3
52.5°	14702.9	14747.2	15595.2	18125.7	21953.1	25512.7	25734.3	25086.8	23190.4	21533.0	11742.6
55°	10913.9	11170.2	12103.0	14548.7	19505.5	25364.3	27811.9	27443.8	24529.8	21937.7	11939.2
57.5°	6710.6	6475.5	7581.7	9898.2	14670.1	23325.3	28453.6	28573.1	26004.1	22276.9	12268.8
60°	3087.4	3133.7	3590.4	5105.2	8942.4	18247.0	26800.1	27555.5	26819.4	22265.3	12351.6
62.5°	2127.6	2085.3	1969.6	2241.3	4078.0	11540.3	22637.3	23916.9	25185.1	21573.4	12022.1
65°	1902.2	1859.8	1636.2	1561.1	1873.2	5030.1	16456.6	18071.7	21205.3	19827.3	11201.1
67.5°	1776.9	1719.1	1487.8	1341.4	1337.5	2002.4	9703.6	11648.2	15728.1	16763.1	9705.6
70°	1645.8	1599.6	1370.2	1208.3	1139.0	1258.5	4265.0	5583.2	10212.4	12079.9	7560.5
72.5°	1514.8	1460.8	1254.6	1081.2	990.6	942.4	1634.3	2125.7	5770.1	7242.5	4635.0
75°	1324.0	1297.0	1121.6	979.0	880.8	761.3	1036.9	1183.3	2759.8	3326.4	2326.2
77.5°	1158.2	1129.4	996.4	855.7	784.4	618.6	736.2	803.7	1164.0	1349.0	1050.3
80°	848.0	876.9	840.2	755.5	699.5	485.7	495.3	551.2	691.9	765.1	641.8
82.5°	537.7	591.6	647.6	582.1	530.0	383.5	343.0	364.2	472.1	501.1	285.3
85°	225.5	229.3	375.8	354.6	302.6	227.4	206.2	217.8	252.5	264.0	133.0
87.5°	86.7	84.8	133.0	123.4	94.4	65.5	65.5	73.3	100.2	92.5	42.4
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°	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7
2.5°	7421.7	7284.9	7013.2	6675.9	6429.3	6151.7	5906.9	5731.6	5666.1	5635.2	5577.4
5°	7416.0	7146.1	6583.4	5993.7	5519.6	5033.9	4623.4	4357.5	4334.3	4157.1	4139.7
7.5°	7418.0	7005.5	6109.4	5242.0	4519.4	4022.2	3682.9	3594.3	3488.3	3461.3	3474.8
10°	7423.7	6826.2	5600.6	4498.2	3798.5	3472.9	3345.7	3311.0	3314.8	3326.4	3328.3
12.5°	7431.4	6652.8	5072.5	3933.4	3393.9	3259.0	3245.4	3276.3	3309.1	3334.1	3339.9
15°	7441.1	6454.3	4557.9	3478.6	3191.5	3179.9	3224.2	3276.3	3322.5	3359.2	3364.9
17.5°	7429.5	6223.1	4126.2	3199.2	3079.7	3135.6	3208.8	3274.3	3316.7	3351.5	3355.3
20°	7402.5	5964.8	3709.9	3002.6	3010.4	3100.9	3179.9	3241.6	3287.9	3305.2	3318.7
22.5°	7298.5	5656.4	3347.6	2850.4	2927.4	3052.7	3147.2	3183.8	3131.7	3095.1	3104.8
25°	7121.1	5255.6	3010.4	2727.0	2852.3	2985.3	3081.7	2993.0	2950.6	2935.2	2942.9
27.5°	6899.5	4816.2	2756.0	2597.9	2756.0	2910.1	2883.1	2867.7	2848.5	2823.4	2829.2
30°	6660.6	4386.4	2540.1	2497.7	2651.8	2740.6	2752.1	2777.2	2756.0	2717.4	2732.8
32.5°	6438.9	3981.6	2376.2	2412.9	2578.7	2565.1	2651.8	2680.8	2582.5	2453.4	2459.2
35°	6250.0	3605.9	2253.0	2330.0	2453.4	2459.2	2545.9	2445.6	2339.7	2278.0	2281.9
37.5°	6107.4	3313.0	2172.0	2258.8	2293.4	2366.7	2320.4	2268.3	2254.9	2212.5	2214.4
40°	6022.6	3056.6	2120.0	2202.8	2197.0	2247.2	2098.7	2150.8	2170.0	2156.6	2158.5
42.5°	5937.8	2875.5	2066.0	2125.7	2123.8	2025.5	1992.7	2037.1	2087.2	2093.0	2089.1
45°	5870.3	2734.8	2010.1	2008.1	2046.7	1892.5	1882.9	1909.9	1981.2	2015.9	2013.9
47.5°	5795.2	2617.2	1925.3	1871.3	1882.9	1809.7	1794.3	1805.8	1892.5	1948.4	1963.8
50°	5700.7	2499.6	1819.3	1746.1	1697.9	1732.5	1736.4	1738.3	1825.1	1888.7	1902.2
52.5°	5625.6	2411.0	1697.9	1643.9	1586.1	1663.2	1692.1	1696.0	1748.0	1800.1	1809.7
55°	5669.9	2360.9	1578.4	1539.9	1487.8	1591.9	1647.8	1655.5	1667.0	1705.6	1711.4
57.5°	5802.9	2372.5	1482.0	1432.0	1393.4	1507.1	1601.5	1607.3	1599.6	1645.8	1653.6
60°	5843.4	2366.7	1410.7	1312.5	1289.3	1416.5	1534.1	1545.7	1543.7	1611.2	1624.6
62.5°	5673.8	2293.4	1339.5	1212.2	1196.8	1324.0	1439.6	1485.9	1495.6	1591.9	1609.3
65°	5274.8	2143.1	1245.0	1106.3	1106.3	1225.8	1349.0	1412.6	1439.6	1568.8	1588.1
67.5°	4748.7	1965.8	1148.6	1015.7	1011.8	1131.3	1252.7	1318.3	1360.7	1536.0	1547.6
70°	3941.2	1726.8	1029.1	917.4	917.4	1025.3	1135.2	1214.2	1275.8	1474.4	1474.4
72.5°	2700.0	1435.8	884.6	805.6	807.5	907.7	1019.5	1108.2	1181.4	1351.0	1354.9
75°	1707.6	1121.6	726.5	686.1	693.8	788.3	903.9	996.4	1142.8	1335.6	1341.4
77.5°	907.7	788.3	578.2	568.5	578.2	664.9	794.0	921.2	1146.7	1158.2	1139.0
80°	587.8	558.9	456.7	437.5	441.4	535.8	707.3	875.0	921.2	932.8	890.4
82.5°	319.9	354.6	323.8	304.5	304.5	418.2	603.2	695.8	661.0	549.3	524.2
85°	136.8	165.8	167.7	146.5	140.7	258.3	404.7	379.6	352.7	337.2	333.4
87.5°	38.5	54.0	54.0	40.5	30.9	71.3	80.9	23.1	0.0	1.9	3.9
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)