

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: P532622

Luminaire Tested: **GALN-SA8A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30347 lumens
Efficiency: N/A
Efficacy: 124.4 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

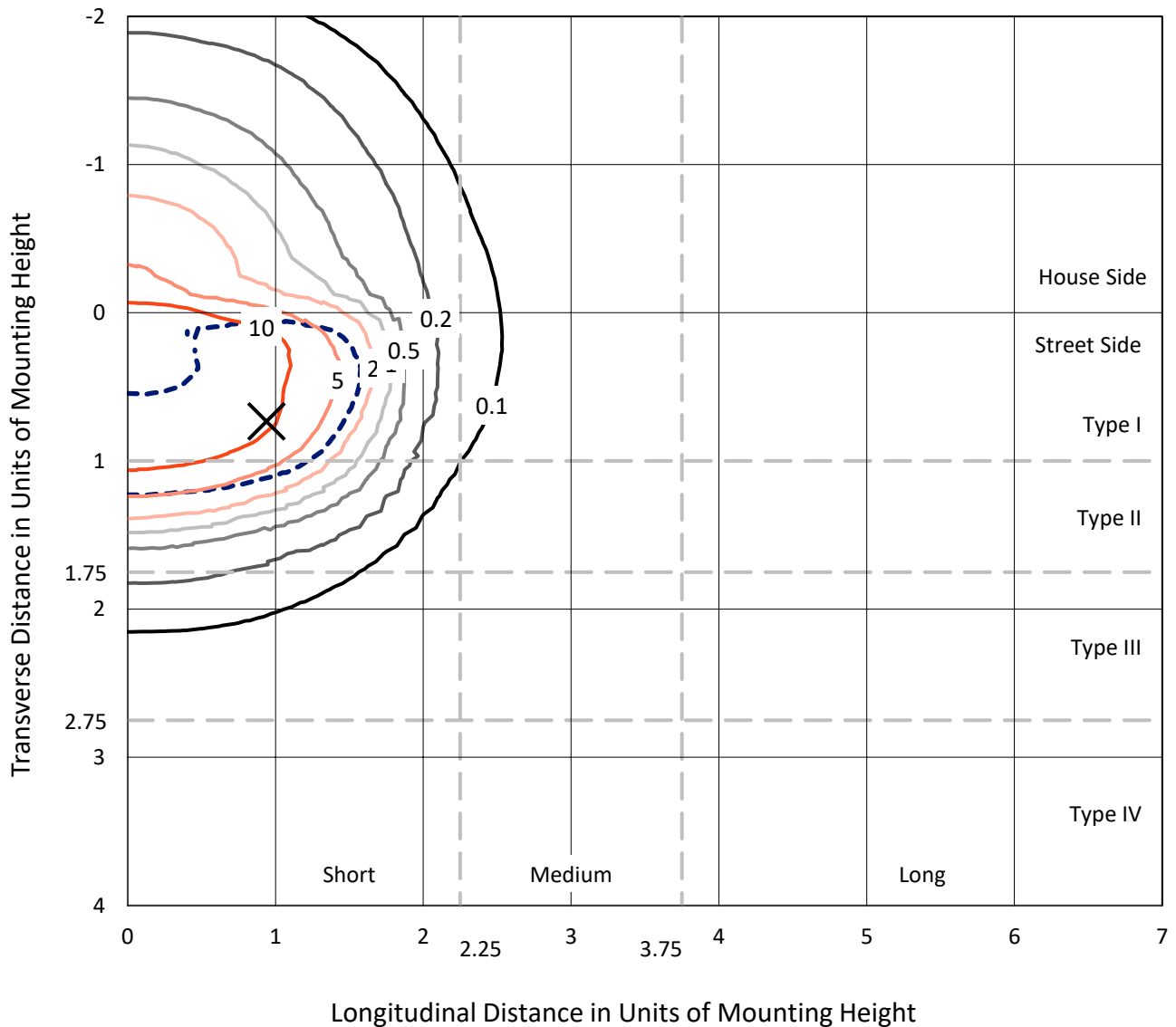
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

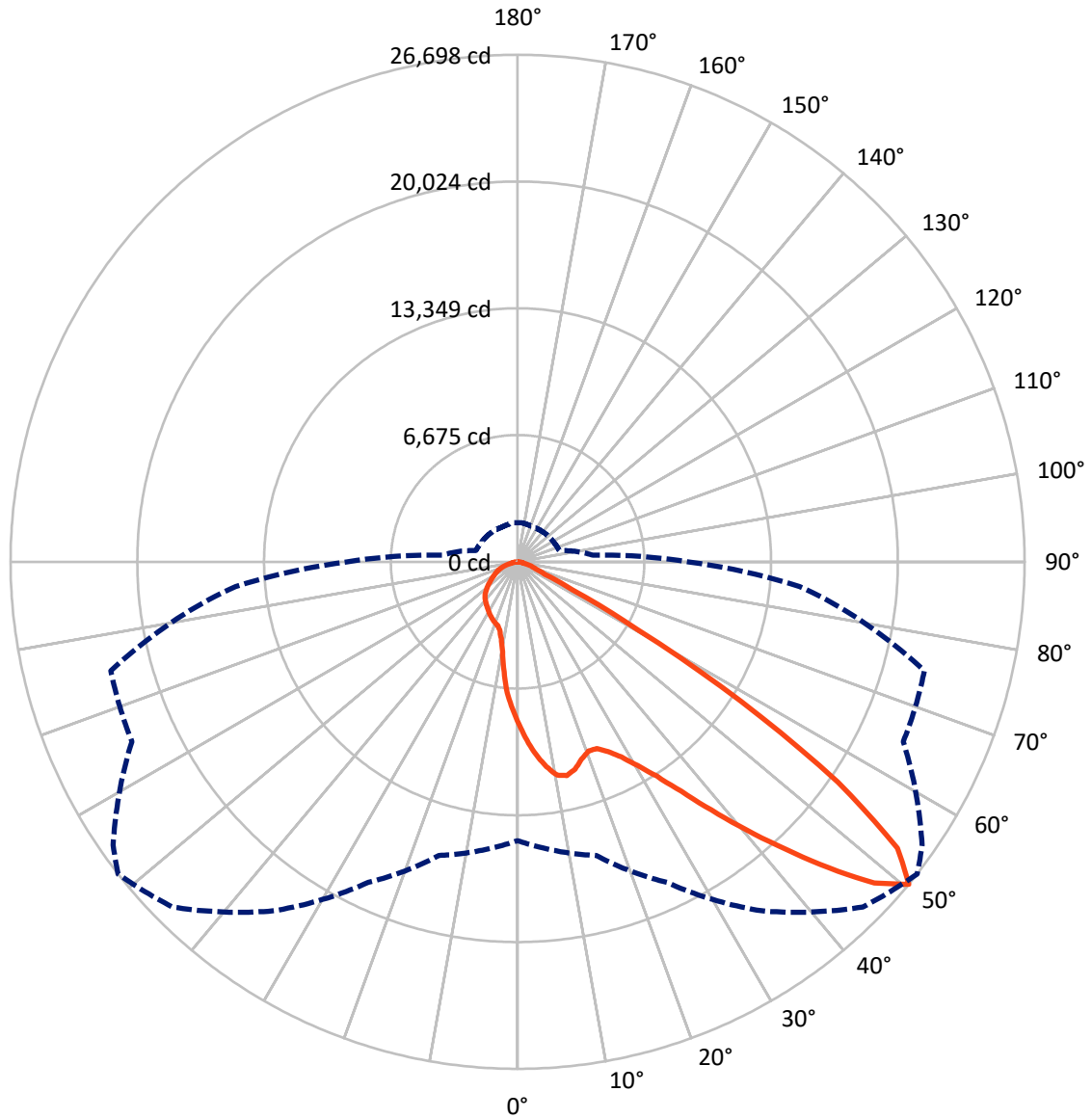
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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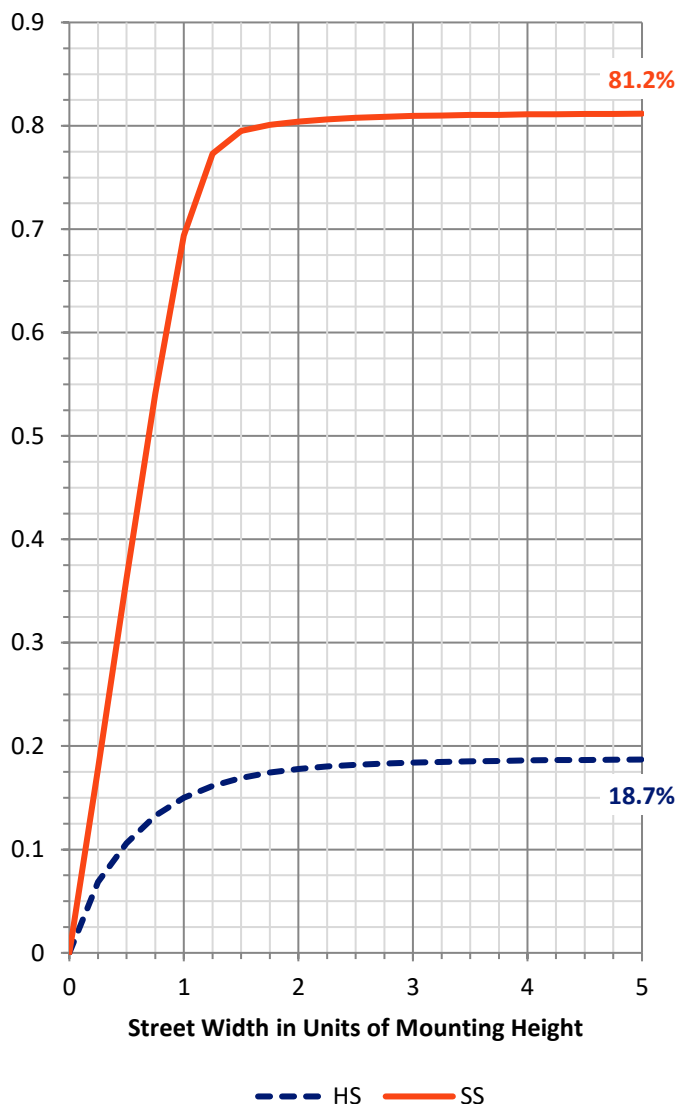
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5704.5	0.0	5704.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24642.5	0.0	24642.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	30347.0	0.0	30347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.5	2.6
10°-20°	2113.2	7.0
20°-30°	3559.7	11.7
30°-40°	5973.4	19.7
40°-50°	9137.9	30.1
50°-60°	6662.2	22.0
60°-70°	1482.7	4.9
70°-80°	534.8	1.8
80°-90°	94.7	0.3
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°	30347.0	100.0
0°-180°	30347.0	100.0

Coefficient of Utilization

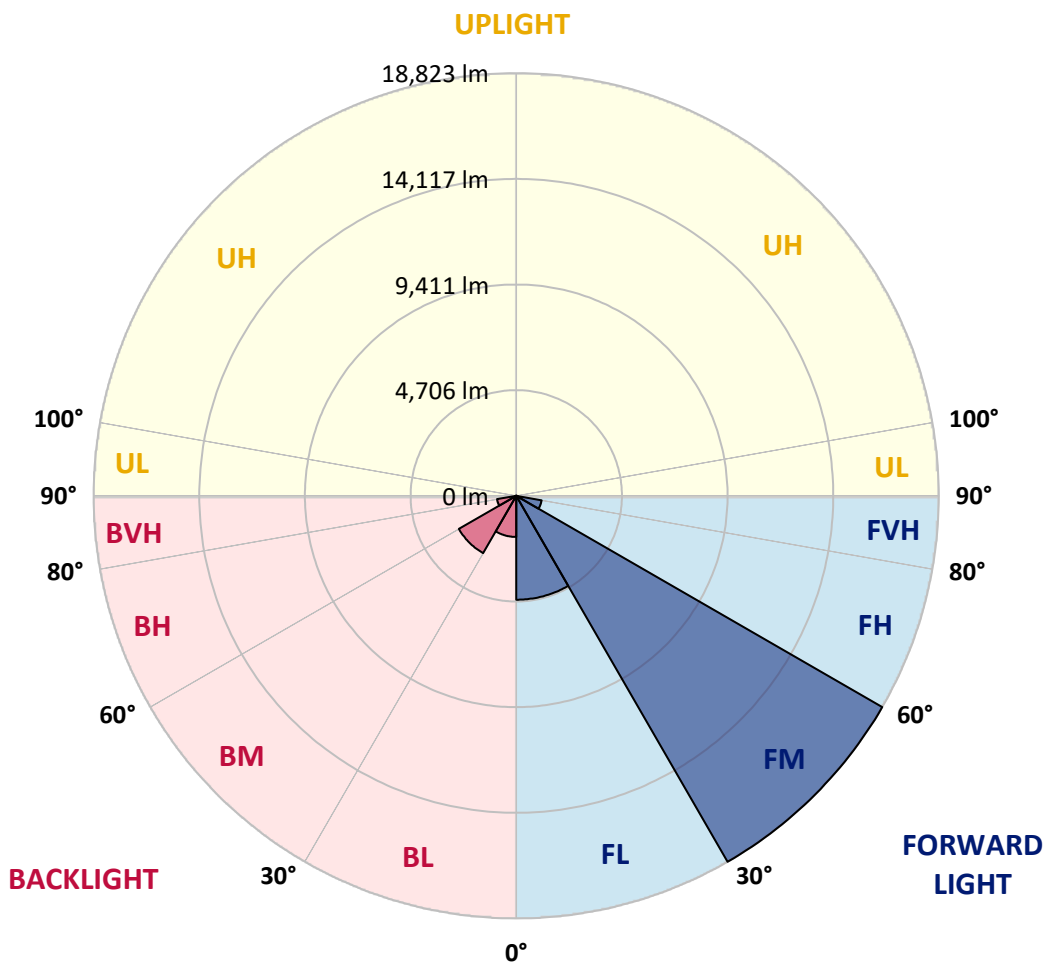


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4629.0	15.3			
FM (30°-60°)	18822.7	62.0			
FH (60°-80°)	1148.4	3.8			G1/1800
FVH (80°-90°)	42.4	0.1			G1/100
BL (0°-30°)	1832.4	6.0	B3/2500		
BM (30°-60°)	2950.8	9.7	B3/5000		
BH (60°-80°)	869.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	52.2	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3
2.5°	10072.1	9878.2	9900.2	9761.2	9611.3	9567.4	9413.8	9267.5	9157.8	8923.7	8707.9
5°	11008.3	10949.8	10862.0	10752.3	10639.0	10361.0	10203.7	10020.9	9618.6	9256.5	8898.1
7.5°	11143.7	11132.7	11180.2	11180.2	11220.5	11114.4	10891.3	10763.3	10335.4	9746.6	9081.0
10°	10192.8	10225.7	10456.1	10756.0	11172.9	11461.8	11425.3	11392.3	10924.2	10119.6	9296.7
12.5°	9435.7	9362.6	9497.9	9753.9	10379.3	11077.8	11549.6	11553.3	11432.6	10715.8	9454.0
15°	9007.8	9059.0	9095.6	9216.3	9688.1	10496.3	11326.5	11571.6	12101.9	11136.3	9702.7
17.5°	9282.1	9110.2	9102.9	9132.2	9373.5	9980.6	10913.2	11333.8	12467.6	11677.6	10009.9
20°	9640.5	9636.9	9534.5	9497.9	9494.2	10035.5	10642.6	11213.1	12661.4	12379.8	10320.8
22.5°	10269.6	10269.6	10101.3	10020.9	9849.0	10291.5	10679.2	11066.8	12983.3	12862.6	10470.7
25°	11322.9	11151.0	10862.0	10664.6	10565.8	10723.1	11066.8	11414.3	13264.9	13374.6	10781.6
27.5°	12295.7	12025.0	11882.4	11542.3	11410.6	11319.2	11633.7	11984.8	13594.0	14171.9	10949.8
30°	13400.2	13352.6	13096.6	12657.8	12332.3	12164.0	12452.9	12800.4	14197.5	14987.4	11337.5
32.5°	15375.1	14943.5	14596.1	14058.5	13528.2	13169.8	13455.0	13685.4	15199.5	15839.6	11761.7
35°	17507.3	17368.3	16768.5	15799.3	14987.4	14665.6	14833.8	15005.7	16366.2	17141.5	12474.9
37.5°	19602.9	19412.7	18919.0	18103.4	17115.9	16461.3	16582.0	16783.1	17675.5	18897.0	13345.3
40°	21109.7	20875.6	20626.9	20506.2	19526.1	18630.0	18560.6	18611.8	19445.6	20542.8	14310.8
42.5°	21219.4	21508.3	21585.1	22071.5	21841.1	21106.0	20678.1	20689.1	21135.3	22170.3	15287.3
45°	20989.0	20722.0	21288.9	22616.5	23377.2	23720.9	23000.5	22909.0	22181.2	23113.8	15773.7
47.5°	18571.5	18644.7	19602.9	21702.1	23900.2	25436.2	25268.0	24964.4	22740.8	23080.9	15696.9
50°	14680.2	15122.7	16011.5	18626.4	22437.3	25706.8	26698.0	25995.8	22408.0	22173.9	14914.3
52.5°	9775.8	9958.7	10543.9	13919.5	18041.2	22978.5	25052.2	25213.1	22100.8	20985.3	13923.2
55°	4352.1	4337.5	5160.4	7270.6	11319.2	17485.3	20469.6	21449.8	20919.5	19774.8	12957.6
57.5°	1843.3	1905.4	2241.9	3141.6	5566.3	10551.2	13868.3	14727.8	16088.3	16238.2	9940.4
60°	1247.1	1254.4	1345.9	1572.6	2329.7	4955.6	7274.3	8305.6	9278.5	9212.6	5273.8
62.5°	980.1	1005.7	1075.2	1166.7	1382.4	2249.2	3255.0	3829.1	3891.3	3273.2	2000.5
65°	837.5	841.2	910.7	987.5	1082.5	1309.3	1569.0	1598.2	1616.5	1558.0	1470.2
67.5°	691.2	698.5	753.4	841.2	928.9	1002.1	1075.2	1111.8	1195.9	1360.5	1338.6
70°	548.6	559.6	607.1	680.2	760.7	804.6	896.0	928.9	1005.7	1133.7	1185.0
72.5°	416.9	420.6	460.8	512.0	585.2	629.0	705.8	742.4	793.6	903.3	950.9
75°	299.9	310.9	340.1	365.7	376.7	406.0	479.1	519.3	592.5	640.0	643.7
77.5°	157.3	164.6	171.9	171.9	208.5	263.3	310.9	332.8	384.0	420.6	402.3
80°	62.2	65.8	84.1	113.4	146.3	190.2	223.1	234.1	278.0	299.9	310.9
82.5°	36.6	40.2	54.9	80.5	106.1	135.3	160.9	171.9	201.1	226.7	234.1
85°	18.3	21.9	32.9	51.2	69.5	84.1	80.5	76.8	76.8	73.1	76.8
87.5°	7.3	7.3	11.0	11.0	11.0	14.6	18.3	18.3	18.3	21.9	21.9
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°	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3	8554.3
2.5°	8565.3	8419.0	8283.7	8035.0	7764.3	7687.5	7373.0	7259.6	7179.2	7084.1	7054.8
5°	8609.2	8415.3	7980.1	7479.1	7080.4	6568.4	6232.0	5869.9	5606.6	5540.7	5522.5
7.5°	8700.6	8367.8	7618.1	6861.0	6045.4	5350.6	4820.3	4535.0	4282.6	4268.0	4242.4
10°	8803.0	8225.2	7223.1	6034.5	4992.2	4348.5	4030.3	3905.9	3843.8	3829.1	3821.8
12.5°	8887.1	8195.9	6780.5	5229.9	4246.1	3858.4	3763.3	3752.3	3777.9	3785.3	3799.9
15°	8923.7	8078.9	6246.6	4509.4	3781.6	3639.0	3679.2	3723.1	3741.4	3788.9	3752.3
17.5°	8993.2	7928.9	5588.3	3938.9	3521.9	3547.5	3617.0	3668.2	3697.5	3730.4	3682.9
20°	9029.8	7793.6	4970.2	3598.7	3430.5	3478.0	3573.1	3613.4	3649.9	3664.6	3609.7
22.5°	8996.8	7515.7	4425.3	3324.4	3342.7	3404.9	3489.0	3532.9	3511.0	3452.4	3419.5
25°	8909.1	7124.3	3858.4	3148.9	3218.4	3328.1	3393.9	3361.0	3320.8	3287.9	3276.9
27.5°	8905.4	6645.2	3448.8	2988.0	3112.3	3262.3	3240.3	3211.1	3229.4	3203.8	3174.5
30°	8923.7	6180.8	3112.3	2896.5	3035.5	3108.7	3134.3	3105.0	3127.0	3079.4	3094.0
32.5°	8828.6	5727.3	2892.9	2790.5	2944.1	2940.4	3024.5	3046.5	2995.3	2896.5	2911.2
35°	8868.8	5361.5	2706.4	2742.9	2841.7	2841.7	2907.5	2881.9	2746.6	2688.1	2702.7
37.5°	9146.8	5003.1	2614.9	2677.1	2742.9	2772.2	2750.3	2640.5	2607.6	2607.6	2614.9
40°	9410.1	4695.9	2560.1	2662.5	2651.5	2669.8	2508.9	2519.8	2519.8	2523.5	2505.2
42.5°	9644.2	4487.5	2516.2	2574.7	2593.0	2497.9	2399.2	2388.2	2413.8	2410.1	2395.5
45°	9728.3	4315.6	2454.0	2476.0	2490.6	2333.3	2285.8	2263.8	2293.1	2304.1	2318.7
47.5°	9406.5	4172.9	2384.5	2340.6	2311.4	2209.0	2146.8	2106.6	2143.2	2205.3	2220.0
50°	8993.2	3986.4	2274.8	2190.7	2128.5	2084.6	2040.7	2000.5	2026.1	2070.0	2059.0
52.5°	8382.4	3693.8	2135.8	2048.1	1942.0	1953.0	1912.7	1890.8	1905.4	1905.4	1894.5
55°	7512.0	3035.5	1901.8	1839.6	1751.8	1781.1	1788.4	1759.1	1729.9	1755.5	1733.5
57.5°	5127.5	2143.2	1697.0	1697.0	1609.2	1649.4	1645.8	1576.3	1506.8	1514.1	1499.5
60°	2966.0	1707.9	1565.3	1550.7	1459.2	1492.2	1499.5	1451.9	1345.9	1353.2	1338.6
62.5°	1686.0	1459.2	1367.8	1345.9	1327.6	1356.8	1356.8	1294.7	1203.2	1210.6	1195.9
65°	1433.6	1353.2	1221.5	1217.9	1210.6	1217.9	1188.6	1122.8	1042.3	1009.4	1013.1
67.5°	1302.0	1250.8	1122.8	1089.9	1067.9	1064.3	1009.4	947.2	910.7	881.4	877.7
70°	1141.1	1100.8	1005.7	961.9	939.9	888.7	833.9	793.6	742.4	727.8	742.4
72.5°	903.3	899.7	863.1	815.6	768.0	727.8	680.2	625.4	577.8	566.9	541.3
75°	625.4	632.7	640.0	632.7	592.5	541.3	486.4	442.5	384.0	351.1	343.8
77.5°	409.6	420.6	431.6	416.9	391.3	343.8	307.2	252.4	208.5	182.9	179.2
80°	299.9	314.5	321.8	310.9	281.6	245.0	204.8	160.9	128.0	106.1	106.1
82.5°	230.4	245.0	252.4	234.1	204.8	175.5	146.3	113.4	87.8	69.5	65.8
85°	80.5	76.8	91.4	95.1	113.4	106.1	87.8	65.8	51.2	36.6	32.9
87.5°	21.9	21.9	25.6	25.6	21.9	18.3	18.3	18.3	14.6	11.0	11.0
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)