

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: P533791

Luminaire Tested: **GALN-SA9B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35045 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

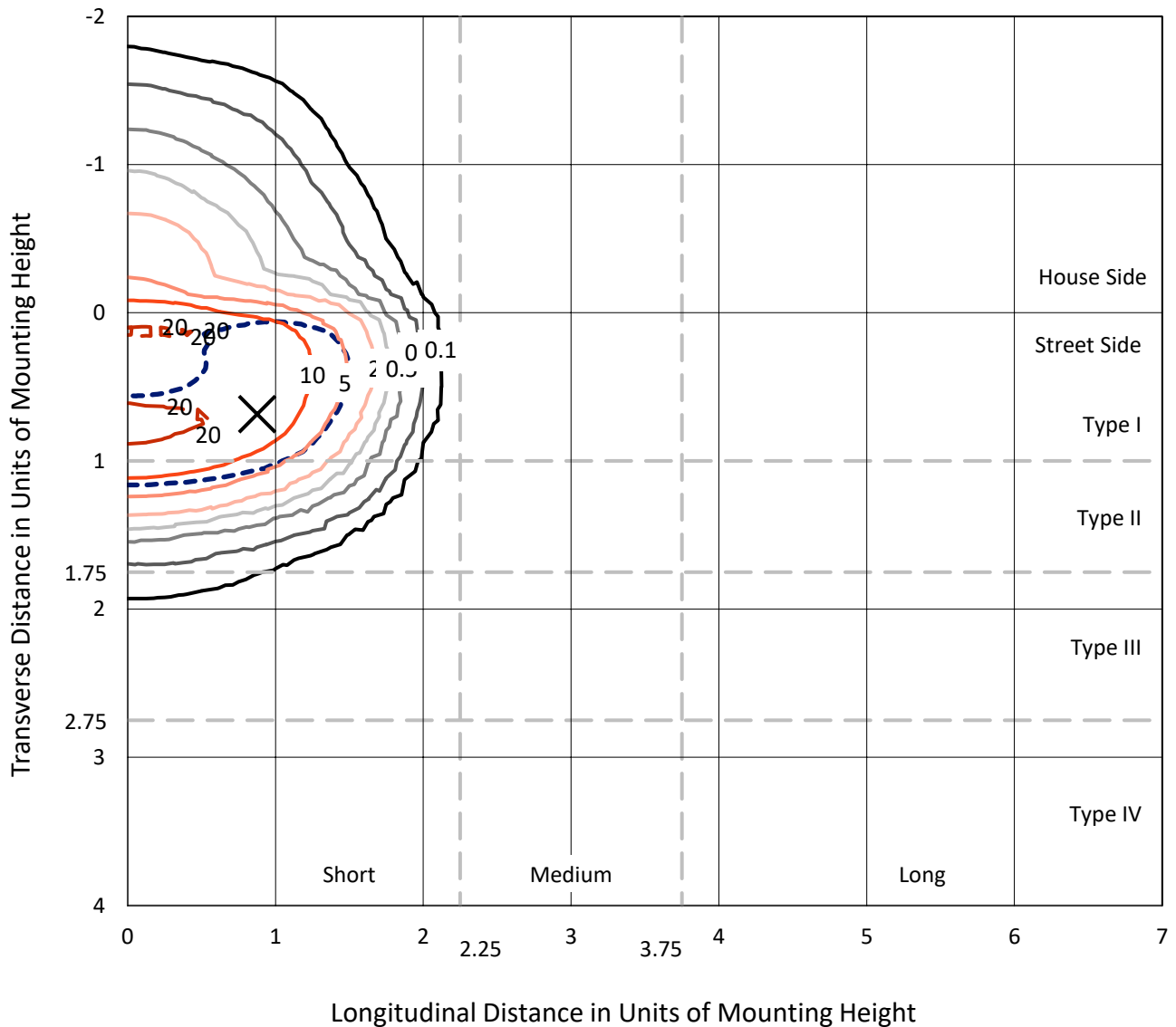
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

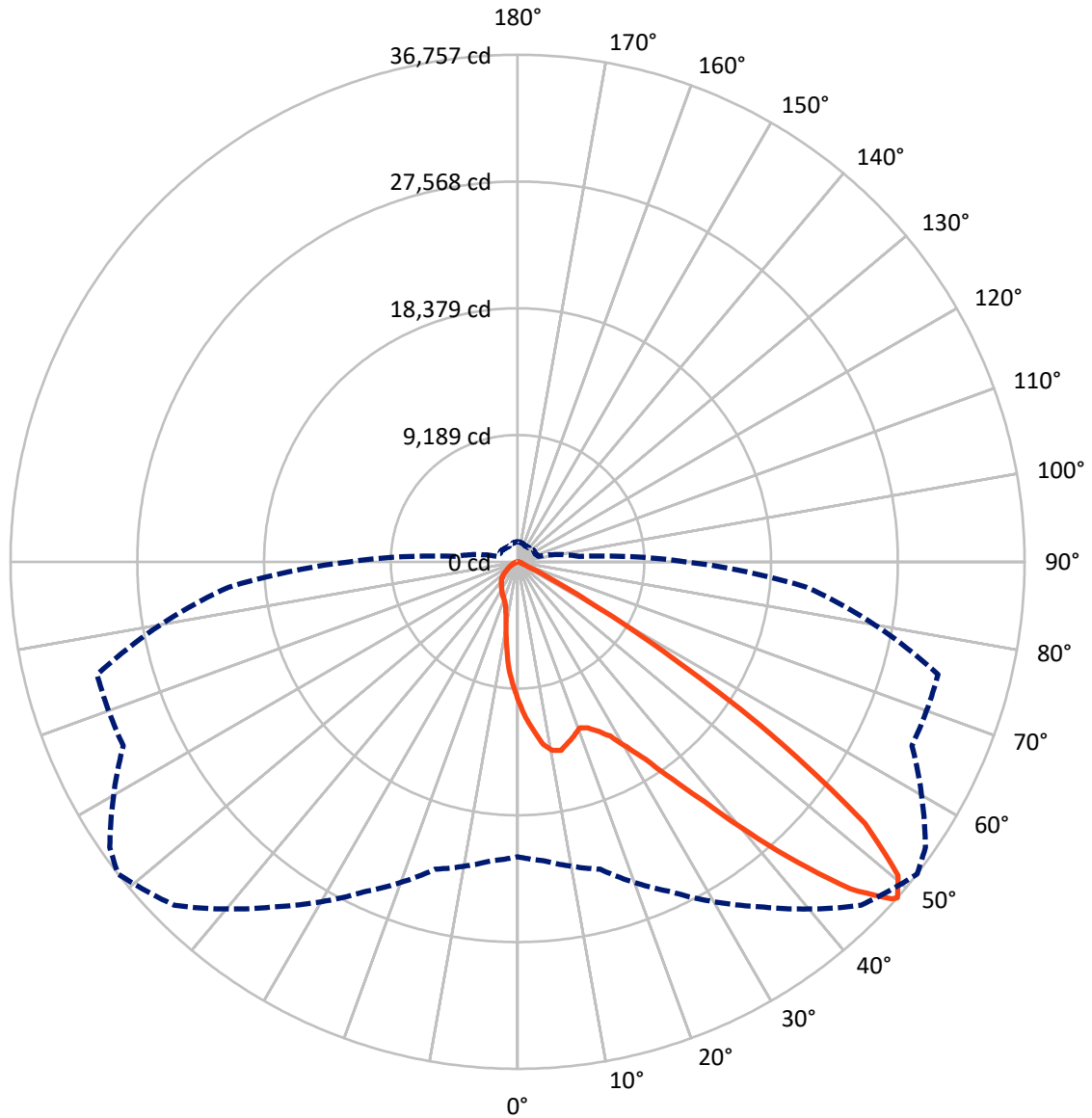
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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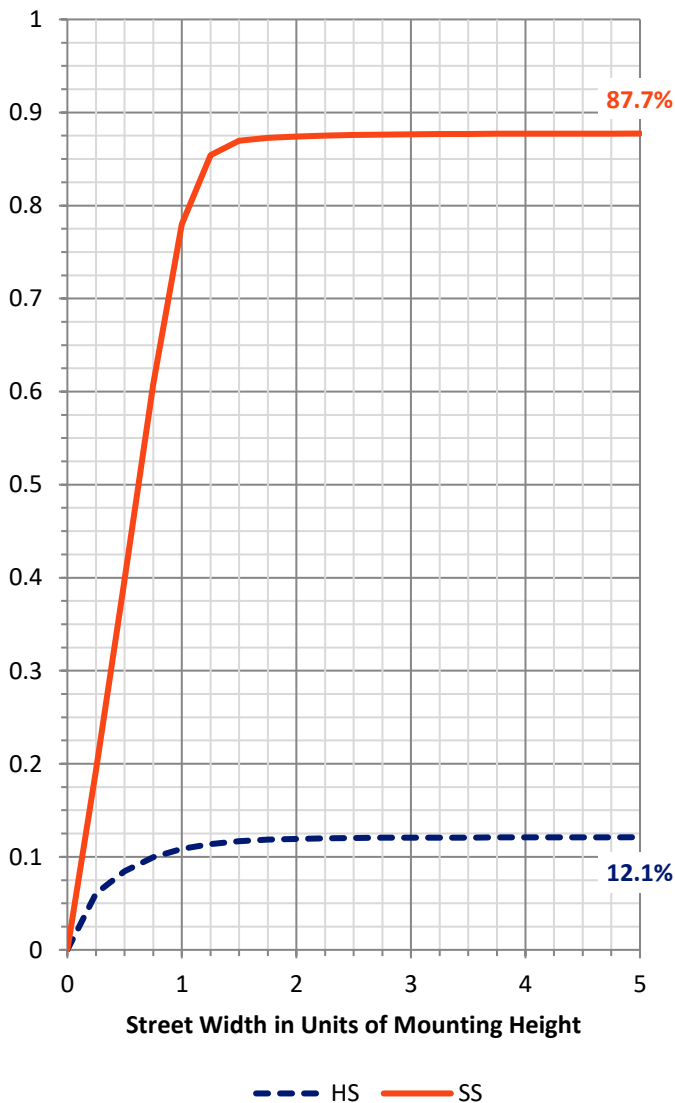
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4267.0	0.0	4267.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	30778.0	0.0	30778.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	35045.0	0.0	35045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.3	2.6
10°-20°	2420.8	6.9
20°-30°	4133.3	11.8
30°-40°	7611.4	21.7
40°-50°	11820.5	33.7
50°-60°	7113.9	20.3
60°-70°	822.8	2.3
70°-80°	159.3	0.5
80°-90°	36.8	0.1
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°	35045.0	100.0
0°-180°	35045.0	100.0

Coefficient of Utilization

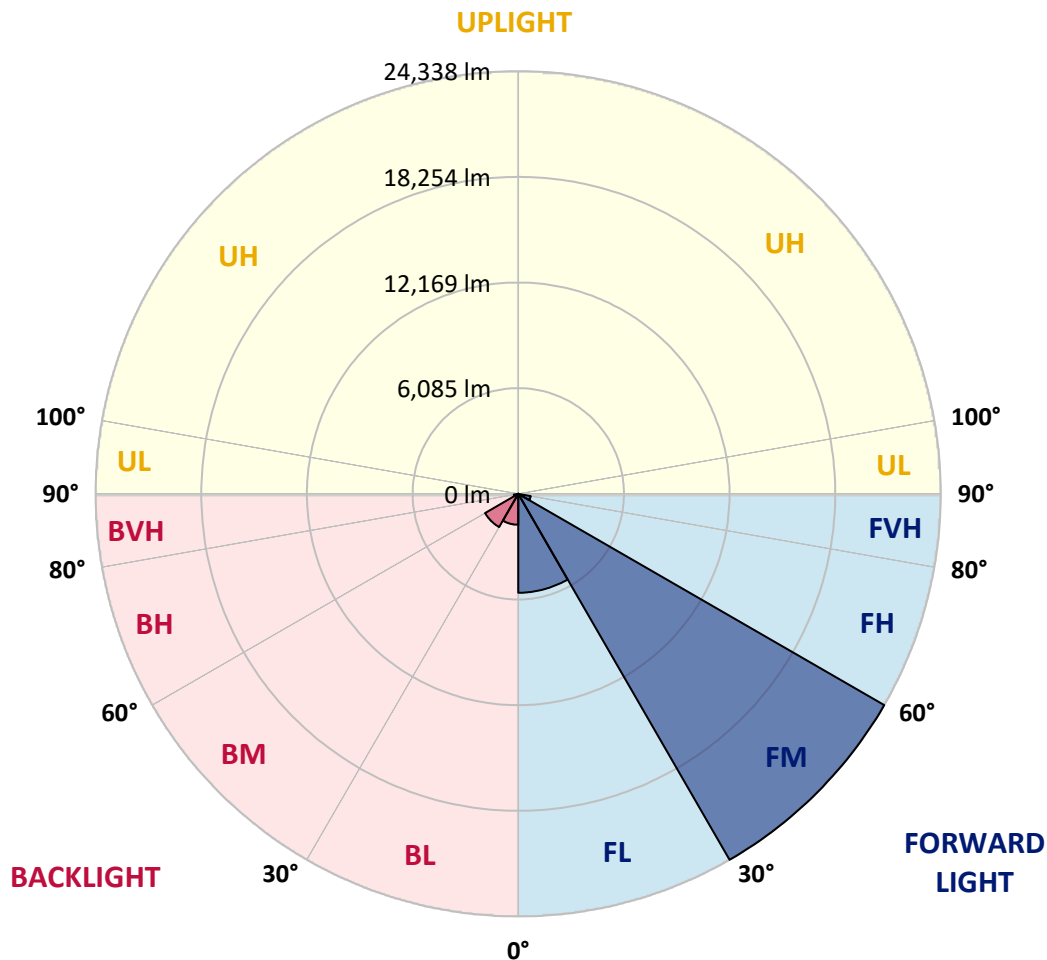


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5697.9	16.3			
FM (30°-60°)	24338.1	69.4			
FH (60°-80°)	724.5	2.1			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1782.5	5.1	B3/2500		
BM (30°-60°)	2207.7	6.3	B2/2500		
BH (60°-80°)	257.5	0.7	B1/500		G1/500
BVH (80°-90°)	19.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4
2.5°	12266.1	11985.1	12010.6	11826.7	11719.4	11545.8	11310.8	11264.8	11009.3	10661.9	10309.4
5°	13369.6	13303.2	13390.0	13124.4	13134.6	12848.5	12296.7	12307.0	11719.4	11152.4	10605.7
7.5°	13441.1	13287.8	13374.7	13609.7	13747.6	13696.5	13384.9	13114.1	12557.3	11724.6	10927.6
10°	12036.2	12327.4	12419.3	12807.6	13359.4	13941.8	13906.0	13921.3	13456.4	12368.3	11203.5
12.5°	11193.2	10999.1	11310.8	11545.8	12378.5	13507.5	14023.5	14135.9	14171.6	12991.5	11479.3
15°	10810.1	10810.1	10861.2	10927.6	11530.4	12572.6	13625.0	13952.0	14723.4	13808.9	11913.6
17.5°	11050.2	11040.0	11111.5	10973.6	11198.4	12000.4	13257.2	13630.1	15341.5	14611.0	12255.9
20°	11780.8	11816.5	11770.5	11372.1	11387.4	11990.2	12848.5	13436.0	15760.5	15305.8	12710.5
22.5°	12797.4	12817.8	12557.3	12123.0	11995.3	12291.6	13083.5	13533.1	16097.6	16138.5	12848.5
25°	13972.4	13890.7	13839.6	13226.5	12838.3	13093.7	13614.8	13875.3	16307.1	16853.7	13241.9
27.5°	15602.1	15438.6	15127.0	14580.3	14294.3	13931.5	14304.5	14733.6	16904.8	17855.0	13671.0
30°	18008.3	17865.3	17257.3	16552.3	15801.3	15443.7	15561.2	15796.2	17982.8	19014.7	14238.1
32.5°	21630.4	21329.0	20450.3	19106.7	18084.9	17099.0	17068.3	17318.6	18948.3	20618.9	14912.4
35°	25620.3	25528.4	24235.9	22851.4	20874.3	19351.9	19377.5	19510.3	20797.7	22723.7	15796.2
37.5°	28271.8	28777.5	27955.0	26468.4	24808.0	22631.7	22080.0	22126.0	23336.7	25216.7	17390.2
40°	30320.4	29891.2	29988.3	29640.9	28506.8	27025.2	25804.2	25564.1	26274.2	27975.5	18973.9
42.5°	29426.3	29446.8	30044.5	30867.0	31148.0	31040.7	29794.2	29339.5	28787.7	30233.5	20480.9
45°	26902.6	27428.8	28205.4	30381.7	32292.3	34085.5	33840.3	33084.2	30524.7	32021.6	21349.4
47.5°	22876.9	22856.5	24128.6	26958.8	31204.2	35403.6	36517.3	35986.0	31755.9	31822.3	21170.6
48°	21390.3	21758.1	23071.1	26402.0	30514.5	35209.4	36757.4	36088.1	31546.5	31556.7	21017.4
50°	15811.6	15745.1	17379.9	21466.9	27255.1	33084.2	35745.9	36266.9	31541.4	30213.1	19944.5
52.5°	8352.8	8638.9	9829.2	13497.3	19270.2	27076.3	31531.1	32343.4	30427.7	28016.3	18401.7
55°	3550.6	3208.3	4122.8	6094.7	10840.7	18090.0	23132.4	24940.9	25727.6	24792.7	16097.6
57.5°	1267.0	1384.5	1593.9	2293.8	4557.0	9900.7	13793.6	15198.5	17824.4	18192.2	10968.5
60°	812.3	827.6	894.0	1052.4	1711.4	3816.2	6544.3	7663.1	8853.4	9139.5	5119.0
62.5°	628.4	633.5	664.1	689.7	812.3	1481.5	2457.3	2912.0	3024.4	2600.3	1343.6
65°	526.2	531.3	541.5	541.5	577.3	694.8	858.3	945.1	919.6	909.4	761.2
67.5°	403.6	413.8	434.2	434.2	454.7	424.0	475.1	505.8	572.2	694.8	648.8
70°	316.7	321.9	337.2	347.4	347.4	306.5	342.3	372.9	418.9	516.0	510.9
72.5°	245.2	255.4	265.7	265.7	250.3	209.5	245.2	270.8	301.4	357.6	347.4
75°	189.0	189.0	194.1	158.4	122.6	107.3	148.2	178.8	224.8	235.0	194.1
77.5°	51.1	56.2	51.1	46.0	51.1	76.6	97.1	112.4	143.0	143.0	127.7
80°	0.0	5.1	15.3	30.7	51.1	71.5	86.8	97.1	112.4	122.6	117.5
82.5°	0.0	5.1	15.3	30.7	46.0	56.2	76.6	81.7	92.0	107.3	107.3
85°	0.0	5.1	10.2	20.4	30.7	35.8	35.8	30.7	30.7	25.5	20.4
87.5°	0.0	0.0	5.1	10.2	10.2	15.3	15.3	15.3	15.3	15.3	15.3
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°	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4	10120.4
2.5°	10171.5	10013.1	9773.0	9395.0	9032.3	8797.3	8572.5	8322.1	8184.2	8174.0	8097.4
5°	10294.1	9936.5	9364.3	8715.5	8020.7	7423.0	6820.2	6426.8	6074.3	5880.2	5844.4
7.5°	10360.5	9895.6	8970.9	7882.8	6697.6	5721.8	5047.4	4551.9	4357.8	4214.7	4209.6
10°	10498.5	9824.1	8383.4	6779.3	5313.1	4327.1	3862.2	3637.4	3530.1	3489.3	3428.0
12.5°	10600.6	9691.3	7780.6	5645.2	4199.4	3586.3	3382.0	3330.9	3336.0	3356.4	3330.9
15°	10743.7	9573.8	6968.3	4633.6	3525.0	3228.7	3228.7	3238.9	3310.5	3320.7	3315.6
17.5°	10733.5	9343.9	6130.5	3816.2	3116.3	3075.5	3090.8	3187.9	3233.8	3249.2	3213.4
20°	10856.1	9129.3	5267.1	3259.4	2886.4	2947.7	3049.9	3075.5	3131.7	3141.9	3101.0
22.5°	10820.3	8592.9	4465.0	2820.0	2712.7	2830.2	2932.4	2963.1	2947.7	2917.1	2912.0
25°	10753.9	8133.1	3729.4	2528.8	2585.0	2712.7	2809.8	2753.6	2723.0	2728.1	2733.2
27.5°	10636.4	7550.7	3121.4	2324.5	2411.3	2600.3	2595.2	2574.8	2605.5	2579.9	2605.5
30°	10616.0	6968.3	2620.8	2140.6	2283.6	2421.5	2431.8	2467.5	2503.3	2457.3	2503.3
32.5°	10646.6	6329.7	2263.2	2028.2	2207.0	2212.1	2324.5	2360.2	2334.7	2232.5	2242.7
35°	10881.6	5839.3	2002.6	1966.9	2084.4	2089.5	2196.8	2150.8	2038.4	1977.1	2012.8
37.5°	11377.2	5430.6	1880.0	1910.7	1920.9	1987.3	1992.4	1900.5	1910.7	1905.6	1926.0
40°	12010.6	5119.0	1793.2	1859.6	1849.4	1895.3	1711.4	1762.5	1808.5	1823.8	1834.0
42.5°	12444.9	4894.2	1737.0	1777.8	1757.4	1675.7	1573.5	1624.6	1660.3	1716.5	1726.8
45°	12639.0	4715.4	1670.6	1634.8	1634.8	1486.6	1445.8	1456.0	1537.7	1599.0	1588.8
47.5°	12322.3	4541.7	1553.1	1445.8	1481.5	1358.9	1312.9	1312.9	1399.8	1476.4	1461.1
48°	12199.7	4470.1	1558.2	1404.9	1430.4	1338.5	1292.5	1282.3	1379.4	1450.9	1450.9
50°	11591.7	4204.5	1425.3	1292.5	1241.4	1231.2	1200.6	1210.8	1272.1	1338.5	1338.5
52.5°	10406.5	3632.3	1205.7	1108.6	1016.6	1077.9	1093.3	1072.8	1103.5	1164.8	1159.7
55°	8684.9	2789.4	965.6	919.6	848.1	914.5	945.1	919.6	888.9	934.9	934.9
57.5°	5563.4	1502.0	771.4	781.6	710.1	776.5	802.1	740.8	684.6	720.3	715.2
60°	2508.4	899.1	633.5	618.2	572.2	648.8	689.7	618.2	541.5	567.1	592.6
62.5°	940.0	638.6	480.2	470.0	459.8	531.3	551.7	495.5	418.9	434.2	439.4
65°	689.7	562.0	383.2	347.4	367.8	418.9	408.7	352.5	301.4	301.4	311.6
67.5°	587.5	490.4	311.6	270.8	270.8	275.9	255.4	224.8	209.5	219.7	229.9
70°	459.8	388.3	245.2	209.5	189.0	168.6	148.2	143.0	127.7	143.0	137.9
72.5°	296.3	260.5	189.0	158.4	143.0	117.5	97.1	92.0	76.6	71.5	71.5
75°	158.4	158.4	148.2	127.7	112.4	92.0	76.6	61.3	40.9	30.7	30.7
77.5°	112.4	122.6	132.8	122.6	102.2	76.6	61.3	40.9	20.4	10.2	10.2
80°	107.3	122.6	132.8	117.5	102.2	76.6	56.2	30.7	15.3	5.1	5.1
82.5°	97.1	112.4	122.6	107.3	92.0	66.4	51.1	30.7	15.3	5.1	5.1
85°	20.4	25.5	30.7	30.7	35.8	46.0	35.8	25.5	10.2	5.1	5.1
87.5°	15.3	15.3	15.3	15.3	15.3	15.3	10.2	10.2	5.1	5.1	5.1
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)