

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: P530516

Luminaire Tested: **GALN-SA5D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530516
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-SA5D-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 31836 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

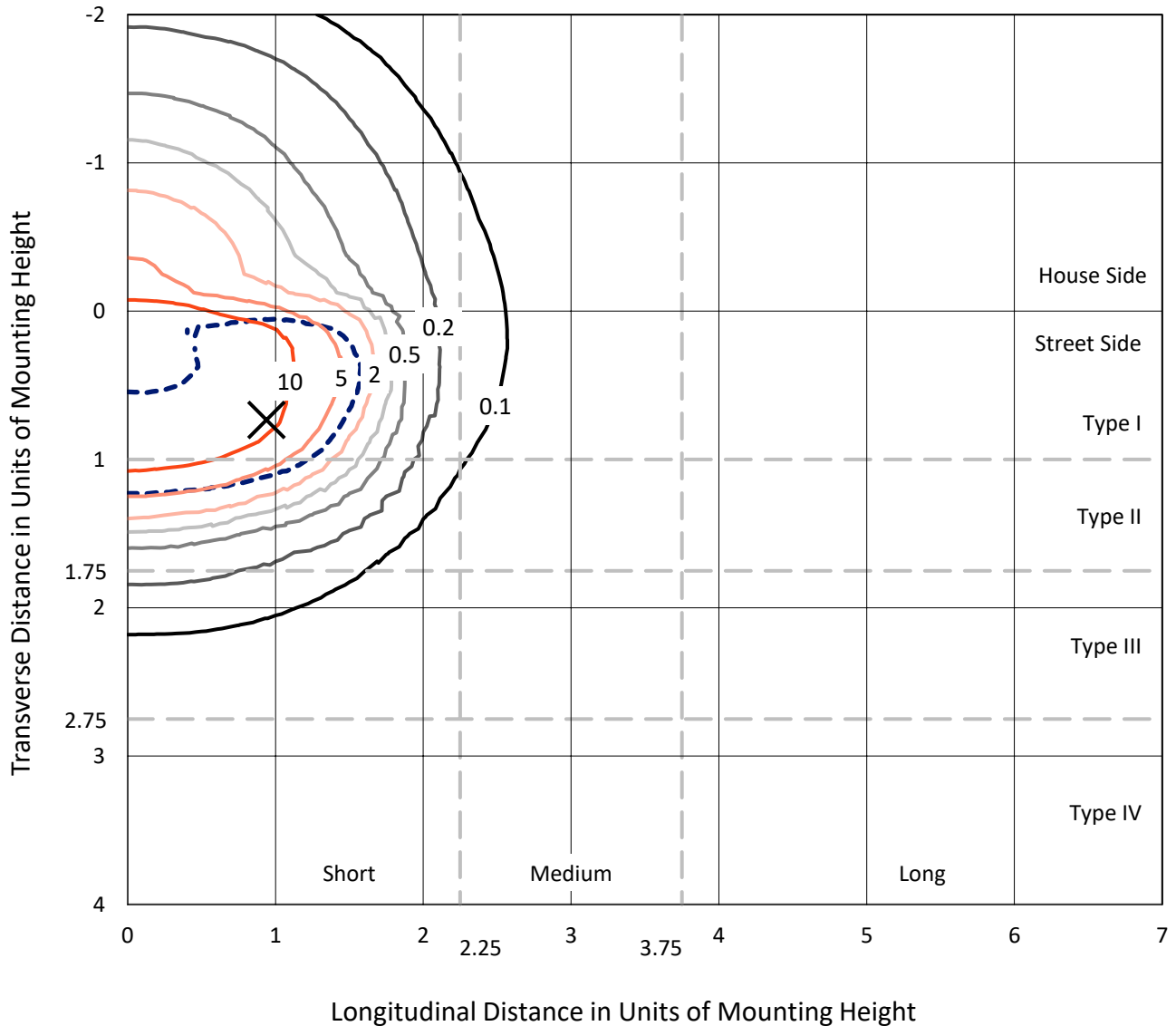
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

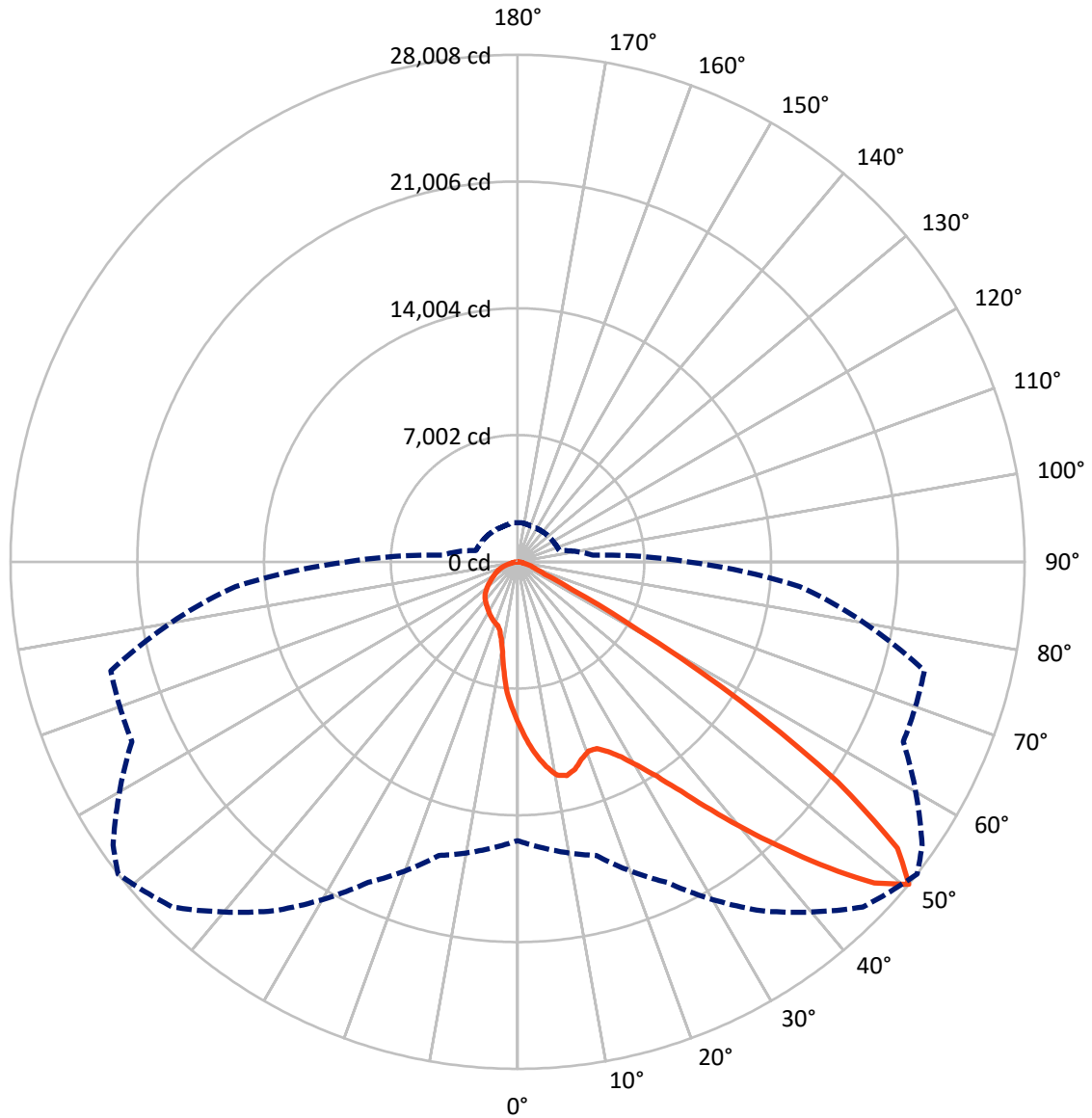
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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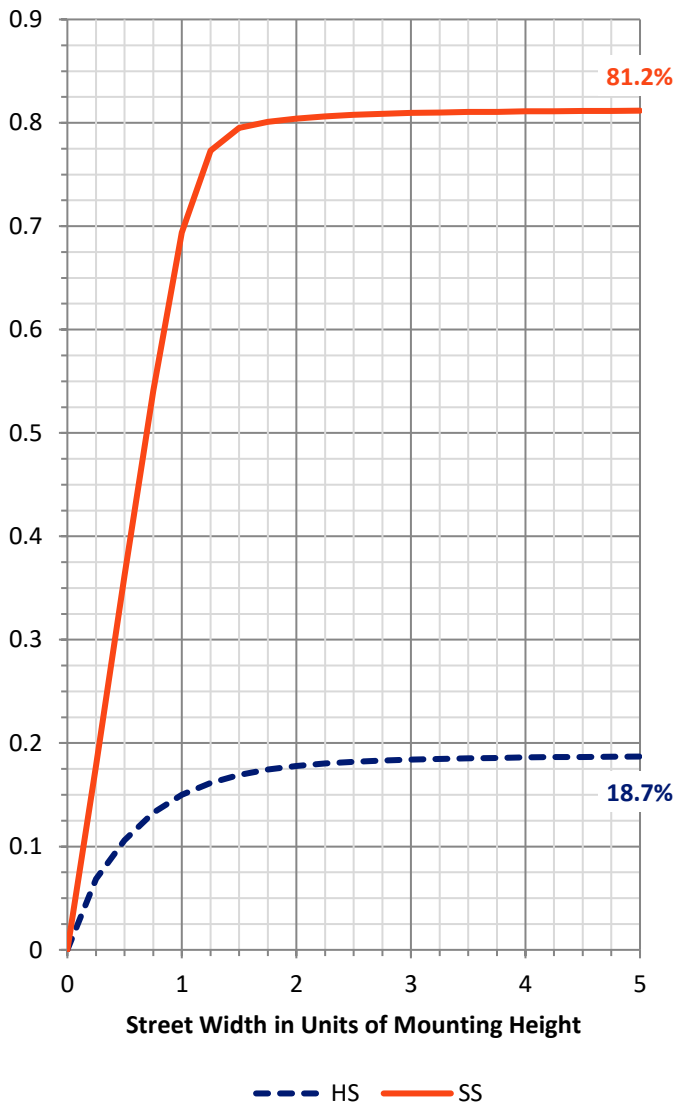
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5984.4	0.0	5984.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25851.6	0.0	25851.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	31836.0	0.0	31836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.1	2.6
10°-20°	2216.9	7.0
20°-30°	3734.3	11.7
30°-40°	6266.5	19.7
40°-50°	9586.2	30.1
50°-60°	6989.1	22.0
60°-70°	1555.4	4.9
70°-80°	561.0	1.8
80°-90°	99.3	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°	31836.0	100.0
0°-180°	31836.0	100.0



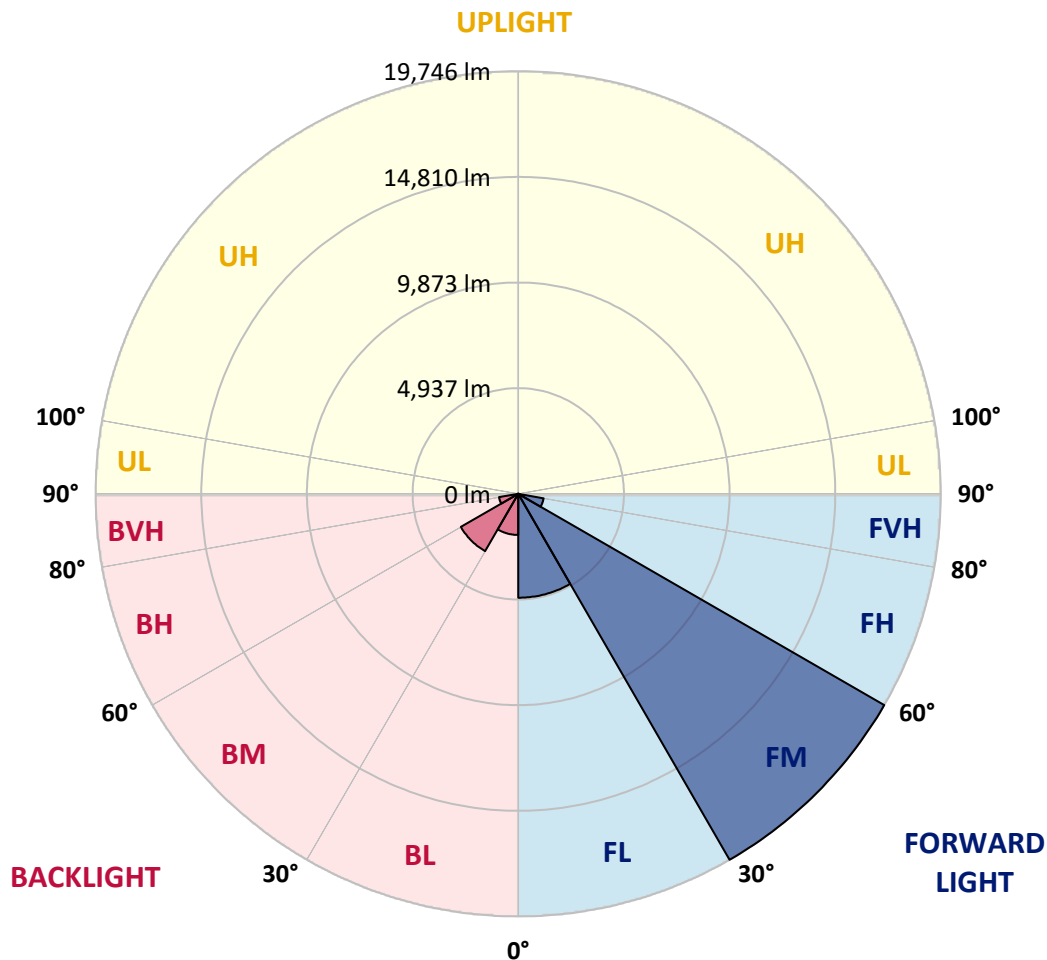
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4856.1	15.3			
FM	(30°-60°)	19746.3	62.0			
FH	(60°-80°)	1204.7	3.8			G1/1800
FVH	(80°-90°)	44.5	0.1			G1/100
BL	(0°-30°)	1922.3	6.0	B3/2500		
BM	(30°-60°)	3095.5	9.7	B3/5000		
BH	(60°-80°)	911.7	2.9	B2/1000		G2/1000
BVH	(80°-90°)	54.8	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°	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0
2.5°	10566.3	10362.9	10385.9	10240.2	10082.8	10036.8	9875.7	9722.2	9607.1	9361.5	9135.2
5°	11548.5	11487.1	11395.0	11279.9	11161.0	10869.4	10704.4	10512.6	10090.5	9710.7	9334.7
7.5°	11690.4	11678.9	11728.8	11728.8	11771.0	11659.7	11425.7	11291.4	10842.5	10224.8	9526.5
10°	10692.9	10727.4	10969.1	11283.7	11721.1	12024.2	11985.8	11951.3	11460.2	10616.1	9752.9
12.5°	9898.7	9822.0	9963.9	10232.5	10888.6	11621.4	12116.3	12120.1	11993.5	11241.5	9917.9
15°	9449.8	9503.5	9541.9	9668.5	10163.4	11011.3	11882.3	12139.3	12695.6	11682.8	10178.8
17.5°	9737.5	9557.2	9549.5	9580.2	9833.5	10470.4	11448.7	11889.9	13079.3	12250.6	10501.0
20°	10113.5	10109.7	10002.3	9963.9	9960.1	10527.9	11164.8	11763.3	13282.7	12987.2	10827.2
22.5°	10773.5	10773.5	10597.0	10512.6	10332.2	10796.5	11203.2	11609.9	13620.3	13493.7	10984.5
25°	11878.4	11698.1	11395.0	11187.8	11084.2	11249.2	11609.9	11974.3	13915.7	14030.8	11310.6
27.5°	12899.0	12615.1	12465.4	12108.6	11970.5	11874.6	12204.5	12572.9	14261.0	14867.2	11487.1
30°	14057.7	14007.8	13739.2	13278.8	12937.4	12760.9	13064.0	13428.4	14894.1	15722.8	11893.8
32.5°	16129.5	15676.8	15312.3	14748.3	14192.0	13816.0	14115.2	14356.9	15945.3	16616.7	12338.8
35°	18366.3	18220.5	17591.3	16574.5	15722.8	15385.2	15561.7	15742.0	17169.2	17982.6	13087.0
37.5°	20564.7	20365.2	19847.2	18991.7	17955.8	17269.0	17395.6	17606.6	18542.8	19824.2	14000.1
40°	22145.4	21899.9	21639.0	21512.4	20484.1	19544.1	19471.3	19525.0	20399.7	21550.7	15013.0
42.5°	22260.5	22563.6	22644.2	23154.5	22912.8	22141.6	21692.7	21704.2	22172.3	23258.1	16037.4
45°	22018.8	21738.7	22333.4	23726.2	24524.2	24884.8	24129.0	24033.1	23269.6	24247.9	16547.7
47.5°	19482.8	19559.5	20564.7	22767.0	25072.8	26684.2	26507.8	26189.3	23856.6	24213.4	16467.1
50°	15400.5	15864.8	16797.1	19540.3	23538.2	26968.2	28007.9	27271.3	23507.5	23261.9	15646.1
52.5°	10255.5	10447.3	11061.2	14602.5	18926.4	24106.0	26281.4	26450.2	23185.2	22015.0	14606.3
55°	4565.7	4550.3	5413.6	7627.4	11874.6	18343.3	21474.0	22502.2	21945.9	20745.0	13593.4
57.5°	1933.7	1998.9	2351.9	3295.7	5839.5	11068.9	14548.8	15450.4	16877.6	17034.9	10428.1
60°	1308.3	1316.0	1411.9	1649.8	2444.0	5198.7	7631.2	8713.1	9733.7	9664.6	5532.5
62.5°	1028.2	1055.1	1128.0	1223.9	1450.3	2359.6	3414.7	4017.0	4082.2	3433.8	2098.7
65°	878.6	882.4	955.3	1035.9	1135.7	1373.5	1645.9	1676.6	1695.8	1634.4	1542.4
67.5°	725.1	732.8	790.4	882.4	974.5	1051.3	1128.0	1166.4	1254.6	1427.3	1404.2
70°	575.5	587.0	636.9	713.6	798.0	844.1	940.0	974.5	1055.1	1189.4	1243.1
72.5°	437.4	441.2	483.4	537.1	613.9	659.9	740.5	778.9	832.6	947.7	997.5
75°	314.6	326.1	356.8	383.7	395.2	425.9	502.6	544.8	621.5	671.4	675.3
77.5°	165.0	172.7	180.3	180.3	218.7	276.2	326.1	349.1	402.9	441.2	422.0
80°	65.2	69.1	88.2	118.9	153.5	199.5	234.0	245.5	291.6	314.6	326.1
82.5°	38.4	42.2	57.6	84.4	111.3	142.0	168.8	180.3	211.0	237.9	245.5
85°	19.2	23.0	34.5	53.7	72.9	88.2	84.4	80.6	80.6	76.7	80.6
87.5°	7.7	7.7	11.5	11.5	11.5	15.3	19.2	19.2	19.2	23.0	23.0
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°	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0	8974.0
2.5°	8985.6	8832.1	8690.1	8429.2	8145.3	8064.7	7734.8	7615.8	7531.4	7431.7	7401.0
5°	9031.6	8828.2	8371.7	7846.1	7427.9	6890.7	6537.7	6157.9	5881.7	5812.6	5793.4
7.5°	9127.5	8778.4	7991.8	7197.6	6342.1	5613.1	5056.8	4757.5	4492.8	4477.4	4450.6
10°	9234.9	8628.7	7577.5	6330.6	5237.1	4561.8	4228.0	4097.6	4032.4	4017.0	4009.4
12.5°	9323.2	8598.0	7113.2	5486.5	4454.4	4047.7	3948.0	3936.5	3963.3	3971.0	3986.3
15°	9361.5	8475.3	6553.1	4730.7	3967.1	3817.5	3859.7	3905.8	3924.9	3974.8	3936.5
17.5°	9434.4	8318.0	5862.5	4132.1	3694.7	3721.6	3794.5	3848.2	3878.9	3913.4	3863.6
20°	9472.8	8176.0	5214.1	3775.3	3598.8	3648.7	3748.5	3790.7	3829.0	3844.4	3786.8
22.5°	9438.3	7884.4	4642.4	3487.6	3506.7	3572.0	3660.2	3706.3	3683.2	3621.8	3587.3
25°	9346.2	7473.9	4047.7	3303.4	3376.3	3491.4	3560.5	3525.9	3483.7	3449.2	3437.7
27.5°	9342.4	6971.3	3618.0	3134.6	3265.0	3422.3	3399.3	3368.6	3387.8	3360.9	3330.3
30°	9361.5	6484.0	3265.0	3038.7	3184.5	3261.2	3288.1	3257.4	3280.4	3230.5	3245.8
32.5°	9261.8	6008.3	3034.8	2927.4	3088.5	3084.7	3173.0	3196.0	3142.3	3038.7	3054.0
35°	9304.0	5624.6	2839.2	2877.5	2981.1	2981.1	3050.2	3023.3	2881.4	2820.0	2835.3
37.5°	9595.6	5248.6	2743.2	2808.5	2877.5	2908.2	2885.2	2770.1	2735.6	2735.6	2743.2
40°	9871.8	4926.3	2685.7	2793.1	2781.6	2800.8	2632.0	2643.5	2643.5	2647.3	2628.1
42.5°	10117.4	4707.6	2639.6	2701.0	2720.2	2620.5	2516.9	2505.4	2532.2	2528.4	2513.0
45°	10205.6	4527.3	2574.4	2597.4	2612.8	2447.8	2397.9	2374.9	2405.6	2417.1	2432.5
47.5°	9868.0	4377.7	2501.5	2455.5	2424.8	2317.4	2252.1	2209.9	2248.3	2313.5	2328.9
50°	9434.4	4182.0	2386.4	2298.2	2233.0	2186.9	2140.9	2098.7	2125.5	2171.6	2160.1
52.5°	8793.7	3875.1	2240.6	2148.6	2037.3	2048.8	2006.6	1983.6	1998.9	1998.9	1987.4
55°	7880.6	3184.5	1995.1	1929.9	1837.8	1868.5	1876.1	1845.5	1814.8	1841.6	1818.6
57.5°	5379.1	2248.3	1780.2	1780.2	1688.1	1730.4	1726.5	1653.6	1580.7	1588.4	1573.0
60°	3111.6	1791.7	1642.1	1626.8	1530.8	1565.4	1573.0	1523.2	1411.9	1419.6	1404.2
62.5°	1768.7	1530.8	1434.9	1411.9	1392.7	1423.4	1423.4	1358.2	1262.3	1269.9	1254.6
65°	1504.0	1419.6	1281.5	1277.6	1269.9	1277.6	1246.9	1177.9	1093.5	1058.9	1062.8
67.5°	1365.9	1312.2	1177.9	1143.3	1120.3	1116.5	1058.9	993.7	955.3	924.6	920.8
70°	1197.1	1154.8	1055.1	1009.1	986.0	932.3	874.8	832.6	778.9	763.5	778.9
72.5°	947.7	943.8	905.5	855.6	805.7	763.5	713.6	656.1	606.2	594.7	567.8
75°	656.1	663.7	671.4	663.7	621.5	567.8	510.3	464.2	402.9	368.3	360.6
77.5°	429.7	441.2	452.7	437.4	410.5	360.6	322.3	264.7	218.7	191.8	188.0
80°	314.6	330.0	337.6	326.1	295.4	257.1	214.9	168.8	134.3	111.3	111.3
82.5°	241.7	257.1	264.7	245.5	214.9	184.2	153.5	118.9	92.1	72.9	69.1
85°	84.4	80.6	95.9	99.8	118.9	111.3	92.1	69.1	53.7	38.4	34.5
87.5°	23.0	23.0	26.9	26.9	23.0	19.2	19.2	19.2	15.3	11.5	11.5
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)