

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: P527396

Luminaire Tested: **GALN-SA2B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527396
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-SA2B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 8205 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 82
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



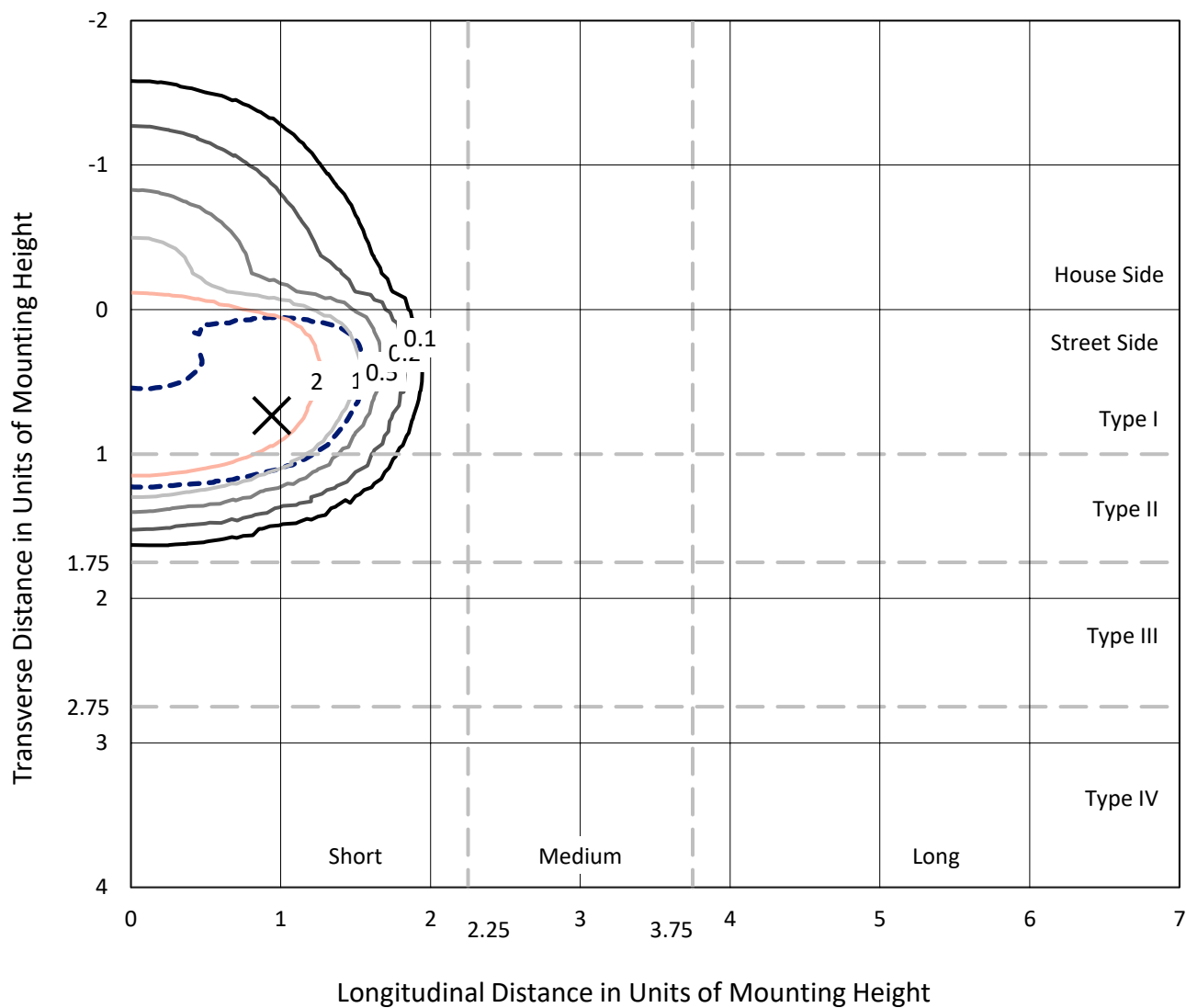
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

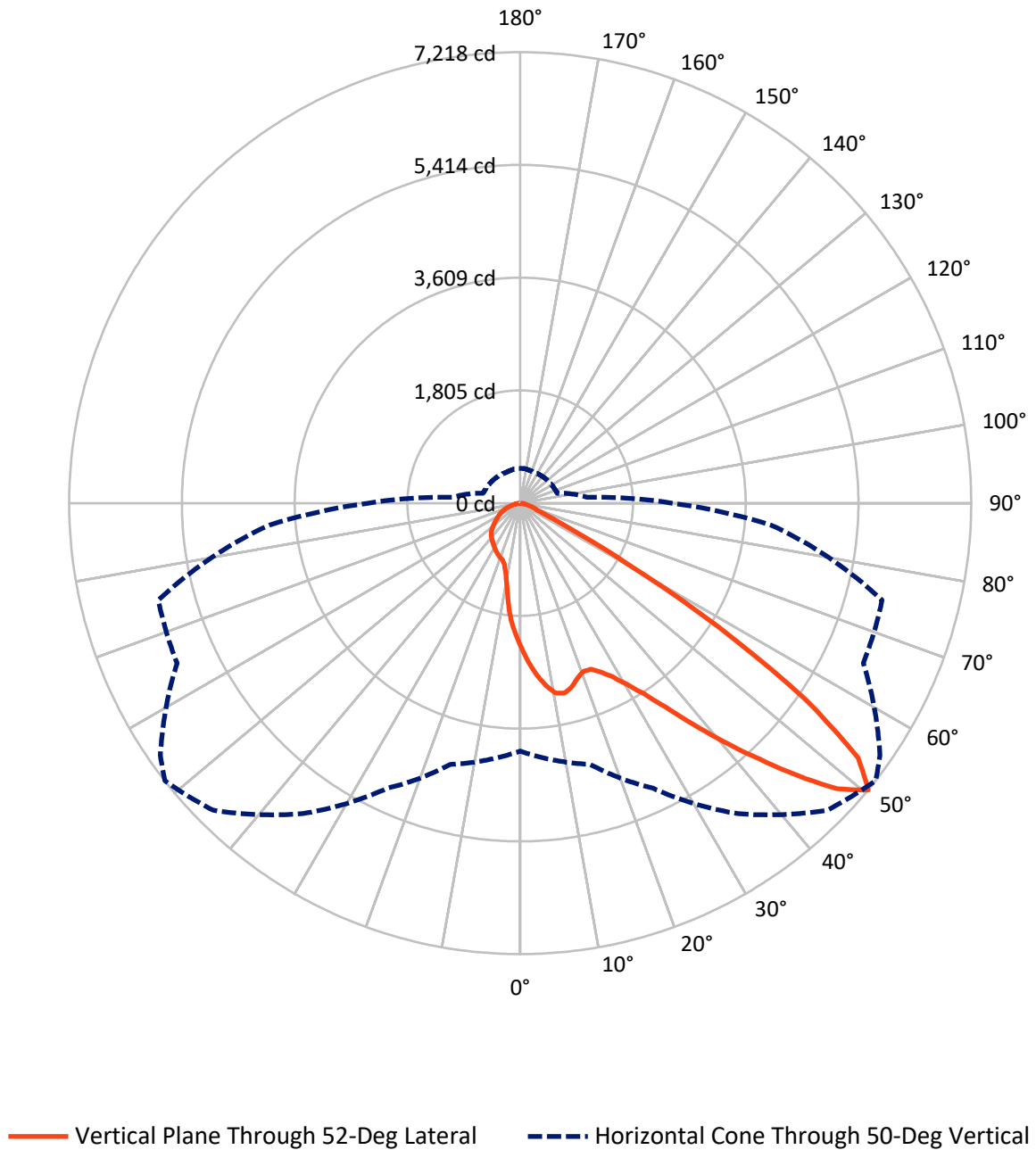


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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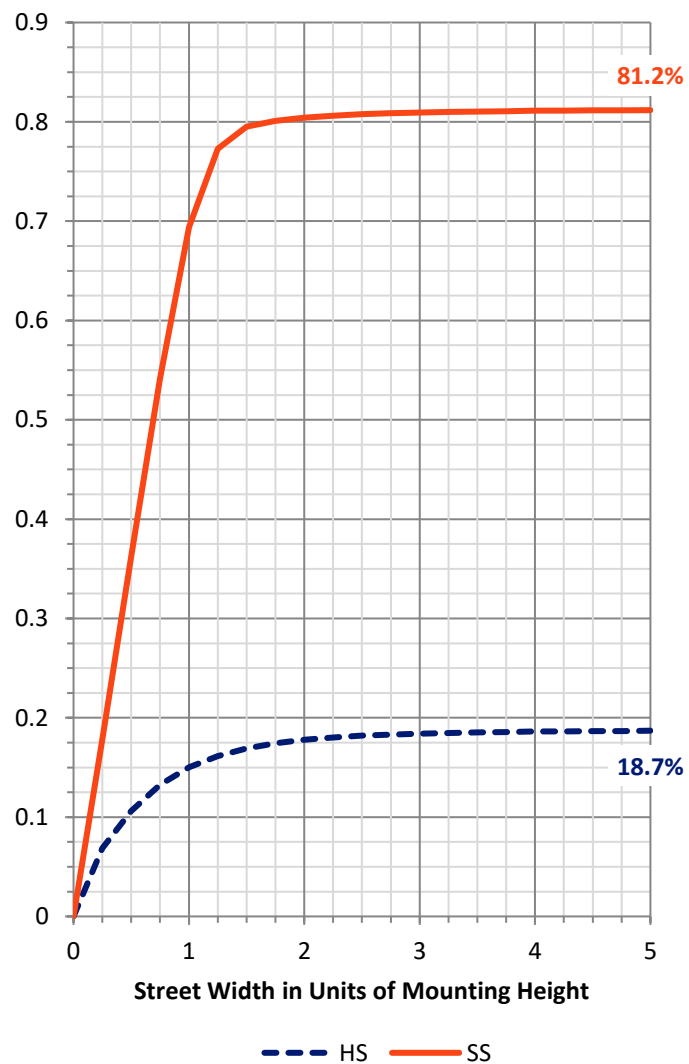
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.3	0.0	1542.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6662.7	0.0	6662.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	8205.0	0.0	8205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	2.6
10°-20°	571.4	7.0
20°-30°	962.4	11.7
30°-40°	1615.0	19.7
40°-50°	2470.6	30.1
50°-60°	1801.3	22.0
60°-70°	400.9	4.9
70°-80°	144.6	1.8
80°-90°	25.6	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°	8205.0	100.0
0°-180°	8205.0	100.0

Coefficient of Utilization



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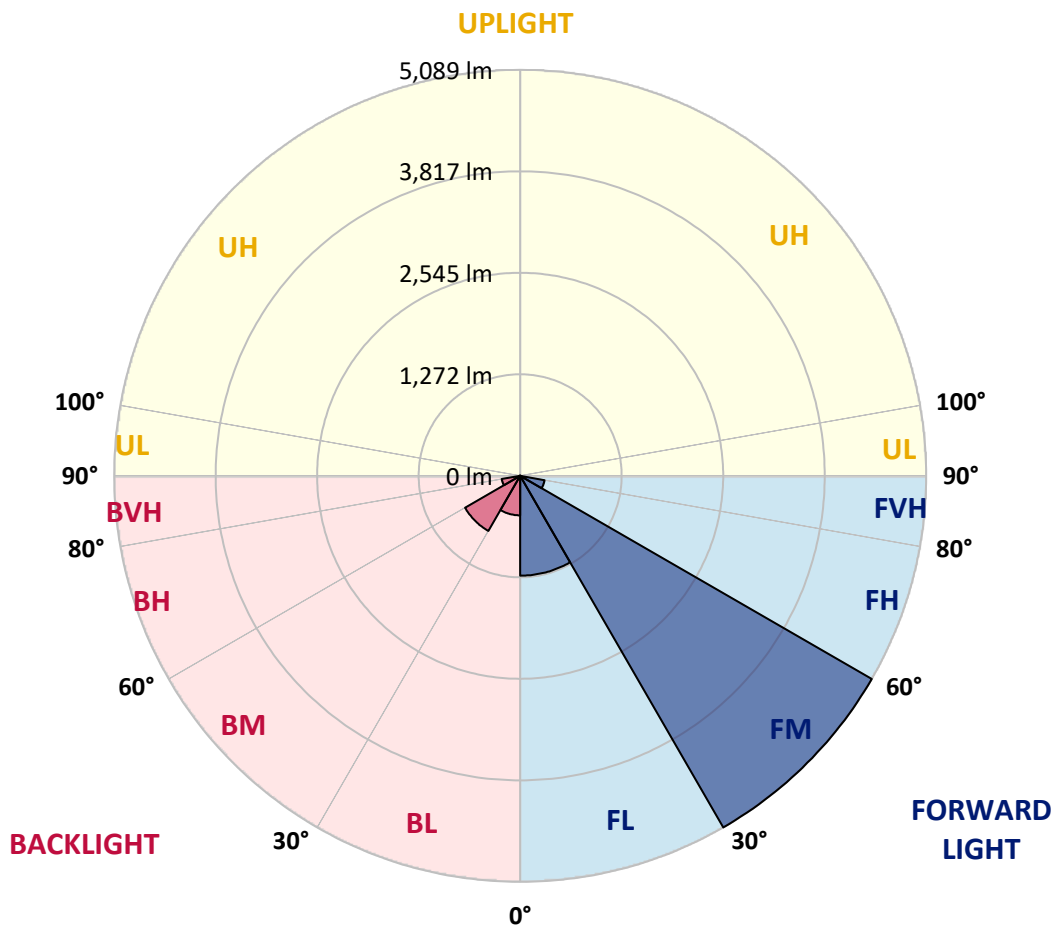
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1251.5	15.3			
FM	(30°-60°)	5089.2	62.0			
FH	(60°-80°)	310.5	3.8			G0/660
FVH	(80°-90°)	11.5	0.1			G1/100
BL	(0°-30°)	495.4	6.0	B1/500		
BM	(30°-60°)	797.8	9.7	B1/1000		
BH	(60°-80°)	235.0	2.9	B1/500		G1/500
BVH	(80°-90°)	14.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9
2.5°	2723.2	2670.8	2676.7	2639.2	2598.6	2586.8	2545.2	2505.7	2476.0	2412.7	2354.4
5°	2976.4	2960.5	2936.8	2907.1	2876.5	2801.3	2758.8	2709.4	2600.6	2502.7	2405.8
7.5°	3012.9	3010.0	3022.8	3022.8	3033.7	3005.0	2944.7	2910.1	2794.4	2635.2	2455.2
10°	2755.8	2764.7	2827.0	2908.1	3020.8	3099.0	3089.1	3080.2	2953.6	2736.1	2513.6
12.5°	2551.2	2531.4	2568.0	2637.2	2806.3	2995.1	3122.7	3123.7	3091.1	2897.2	2556.1
15°	2435.5	2449.3	2459.2	2491.8	2619.4	2837.9	3062.4	3128.6	3272.0	3011.0	2623.3
17.5°	2509.6	2463.2	2461.2	2469.1	2534.3	2698.5	2950.6	3064.4	3370.9	3157.3	2706.4
20°	2606.5	2605.5	2577.9	2568.0	2567.0	2713.3	2877.5	3031.7	3423.3	3347.2	2790.5
22.5°	2776.6	2776.6	2731.1	2709.4	2662.9	2782.5	2887.4	2992.2	3510.3	3477.7	2831.0
25°	3061.4	3014.9	2936.8	2883.4	2856.7	2899.2	2992.2	3086.1	3586.5	3616.1	2915.0
27.5°	3324.4	3251.2	3212.7	3120.7	3085.1	3060.4	3145.4	3240.4	3675.4	3831.7	2960.5
30°	3623.0	3610.2	3541.0	3422.3	3334.3	3288.8	3366.9	3460.9	3838.6	4052.2	3065.3
32.5°	4157.0	4040.3	3946.4	3801.0	3657.7	3560.7	3637.9	3700.2	4109.5	4282.6	3180.0
35°	4733.5	4695.9	4533.7	4271.7	4052.2	3965.2	4010.7	4057.1	4425.0	4634.6	3372.9
37.5°	5300.1	5248.7	5115.2	4894.7	4627.7	4450.7	4483.3	4537.7	4779.0	5109.2	3608.2
40°	5707.5	5644.2	5577.0	5544.3	5279.3	5037.1	5018.3	5032.1	5257.6	5554.2	3869.3
42.5°	5737.1	5815.3	5836.0	5967.5	5905.2	5706.5	5590.8	5593.8	5714.4	5994.2	4133.3
45°	5674.8	5602.7	5755.9	6114.9	6320.5	6413.5	6218.7	6194.0	5997.2	6249.4	4264.8
47.5°	5021.2	5041.0	5300.1	5867.7	6461.9	6877.3	6831.8	6749.7	6148.5	6240.5	4244.0
50°	3969.1	4088.8	4329.1	5036.1	6066.4	6950.4	7218.4	7028.5	6058.5	5995.2	4032.4
52.5°	2643.1	2692.6	2850.8	3763.5	4877.9	6212.8	6773.4	6816.9	5975.4	5673.9	3764.4
55°	1176.7	1172.7	1395.2	1965.8	3060.4	4727.6	5534.4	5799.4	5656.1	5346.6	3503.4
57.5°	498.4	515.2	606.1	849.4	1505.0	2852.8	3749.6	3982.0	4349.8	4390.4	2687.6
60°	337.2	339.2	363.9	425.2	629.9	1339.9	1966.8	2245.6	2508.6	2490.8	1425.9
62.5°	265.0	271.9	290.7	315.4	373.8	608.1	880.1	1035.3	1052.1	885.0	540.9
65°	226.4	227.4	246.2	267.0	292.7	354.0	424.2	432.1	437.1	421.2	397.5
67.5°	186.9	188.9	203.7	227.4	251.2	270.9	290.7	300.6	323.3	367.8	361.9
70°	148.3	151.3	164.1	183.9	205.7	217.5	242.3	251.2	271.9	306.5	320.4
72.5°	112.7	113.7	124.6	138.4	158.2	170.1	190.8	200.7	214.6	244.2	257.1
75°	81.1	84.0	92.0	98.9	101.8	109.8	129.5	140.4	160.2	173.0	174.0
77.5°	42.5	44.5	46.5	46.5	56.4	71.2	84.0	90.0	103.8	113.7	108.8
80°	16.8	17.8	22.7	30.7	39.6	51.4	60.3	63.3	75.2	81.1	84.0
82.5°	9.9	10.9	14.8	21.8	28.7	36.6	43.5	46.5	54.4	61.3	63.3
85°	4.9	5.9	8.9	13.8	18.8	22.7	21.8	20.8	20.8	19.8	20.8
87.5°	2.0	2.0	3.0	3.0	3.0	4.0	4.9	4.9	4.9	5.9	5.9
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°	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9
2.5°	2315.8	2276.3	2239.7	2172.4	2099.3	2078.5	1993.5	1962.8	1941.1	1915.3	1907.4
5°	2327.7	2275.3	2157.6	2022.1	1914.4	1775.9	1685.0	1587.1	1515.9	1498.1	1493.1
7.5°	2352.4	2262.4	2059.7	1855.0	1634.5	1446.6	1303.3	1226.1	1157.9	1154.0	1147.0
10°	2380.1	2223.9	1952.9	1631.6	1349.7	1175.7	1089.7	1056.1	1039.3	1035.3	1033.3
12.5°	2402.8	2215.9	1833.3	1414.0	1148.0	1043.2	1017.5	1014.5	1021.5	1023.4	1027.4
15°	2412.7	2184.3	1688.9	1219.2	1022.4	983.9	994.8	1006.6	1011.6	1024.4	1014.5
17.5°	2431.5	2143.8	1510.9	1065.0	952.2	959.2	977.9	991.8	999.7	1008.6	995.7
20°	2441.4	2107.2	1343.8	973.0	927.5	940.4	966.1	977.0	986.8	990.8	976.0
22.5°	2432.5	2032.0	1196.5	898.8	903.8	920.6	943.3	955.2	949.3	933.4	924.5
25°	2408.8	1926.2	1043.2	851.4	870.2	899.8	917.6	908.7	897.8	889.0	886.0
27.5°	2407.8	1796.7	932.5	807.9	841.5	882.0	876.1	868.2	873.1	866.2	858.3
30°	2412.7	1671.1	841.5	783.1	820.7	840.5	847.4	839.5	845.4	832.6	836.5
32.5°	2387.0	1548.5	782.2	754.5	796.0	795.0	817.8	823.7	809.8	783.1	787.1
35°	2397.9	1449.6	731.7	741.6	768.3	768.3	786.1	779.2	742.6	726.8	730.7
37.5°	2473.0	1352.7	707.0	723.8	741.6	749.5	743.6	713.9	705.0	705.0	707.0
40°	2544.2	1269.6	692.2	719.9	716.9	721.8	678.3	681.3	681.3	682.3	677.3
42.5°	2607.5	1213.3	680.3	696.1	701.1	675.4	648.7	645.7	652.6	651.6	647.7
45°	2630.3	1166.8	663.5	669.4	673.4	630.9	618.0	612.1	620.0	623.0	626.9
47.5°	2543.2	1128.2	644.7	632.8	624.9	597.2	580.4	569.6	579.4	596.3	600.2
50°	2431.5	1077.8	615.0	592.3	575.5	563.6	551.8	540.9	547.8	559.7	556.7
52.5°	2266.4	998.7	577.5	553.7	525.1	528.0	517.2	511.2	515.2	515.2	512.2
55°	2031.0	820.7	514.2	497.4	473.6	481.6	483.5	475.6	467.7	474.6	468.7
57.5°	1386.3	579.4	458.8	458.8	435.1	446.0	445.0	426.2	407.4	409.4	405.4
60°	801.9	461.8	423.2	419.3	394.5	403.4	405.4	392.6	363.9	365.9	361.9
62.5°	455.8	394.5	369.8	363.9	358.9	366.9	366.9	350.0	325.3	327.3	323.3
65°	387.6	365.9	330.3	329.3	327.3	329.3	321.4	303.6	281.8	272.9	273.9
67.5°	352.0	338.2	303.6	294.7	288.7	287.7	272.9	256.1	246.2	238.3	237.3
70°	308.5	297.6	271.9	260.1	254.1	240.3	225.5	214.6	200.7	196.8	200.7
72.5°	244.2	243.3	233.4	220.5	207.7	196.8	183.9	169.1	156.2	153.3	146.3
75°	169.1	171.1	173.0	171.1	160.2	146.3	131.5	119.6	103.8	94.9	92.9
77.5°	110.7	113.7	116.7	112.7	105.8	92.9	83.1	68.2	56.4	49.4	48.5
80°	81.1	85.0	87.0	84.0	76.1	66.3	55.4	43.5	34.6	28.7	28.7
82.5°	62.3	66.3	68.2	63.3	55.4	47.5	39.6	30.7	23.7	18.8	17.8
85°	21.8	20.8	24.7	25.7	30.7	28.7	23.7	17.8	13.8	9.9	8.9
87.5°	5.9	5.9	6.9	6.9	5.9	4.9	4.9	4.9	4.0	3.0	3.0
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)